## PRACTICAL SUGGESTIONS

ON THE

## SALE OF PATENTS,

WITH

FORMS OF ASSIGNMENT, LICENSE, CONTRACT, POWER OF ATTORNEY TO SELL RIGHTS, & MANY OF THEM ORIGINAL,

AND

INSTRUCTIONS RELATIVE THERETO,

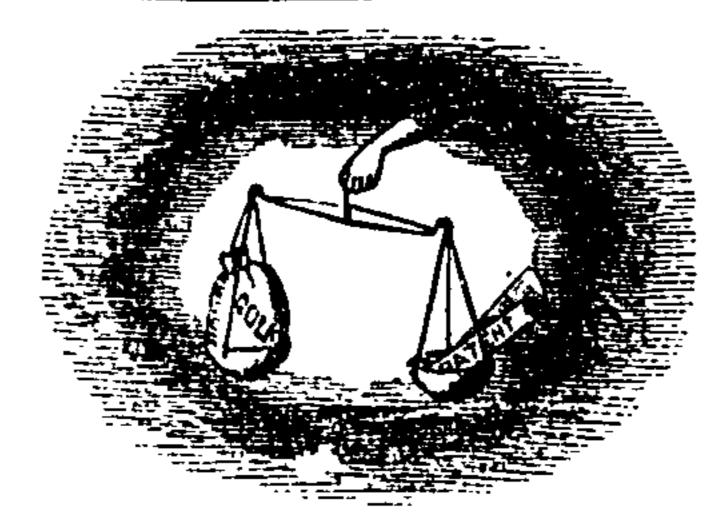
WITH

HINTS UPON INVENTION,

AND THE

UNITED STATES CENSUS.

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## PREFACE.

Having had occasion, during some years of Patent practice, to observe the blind way in which the large majority of inventors grope about, in the vain endeavor to sell their patents, and also having had the opportunity of observing the methods followed by business men, in dealing with the same inventions, it has occurred to the writer that he could, possibly, render a service to a large class of men, with whose interests his own work has been, and is to be identified, by collecting together the results of these various observations, and giving them form and sequence on a printed page.

It is certain to the mind of the writer, that inventions which are really improvements, have a financial value, just as surely as any article of trade, and that the main difficulty in disposing of them arises from the fact that, generally, the men who have them for sale do not know just how to make a clear statement of the value of their inventions, nor to whom to present such statement, when made.

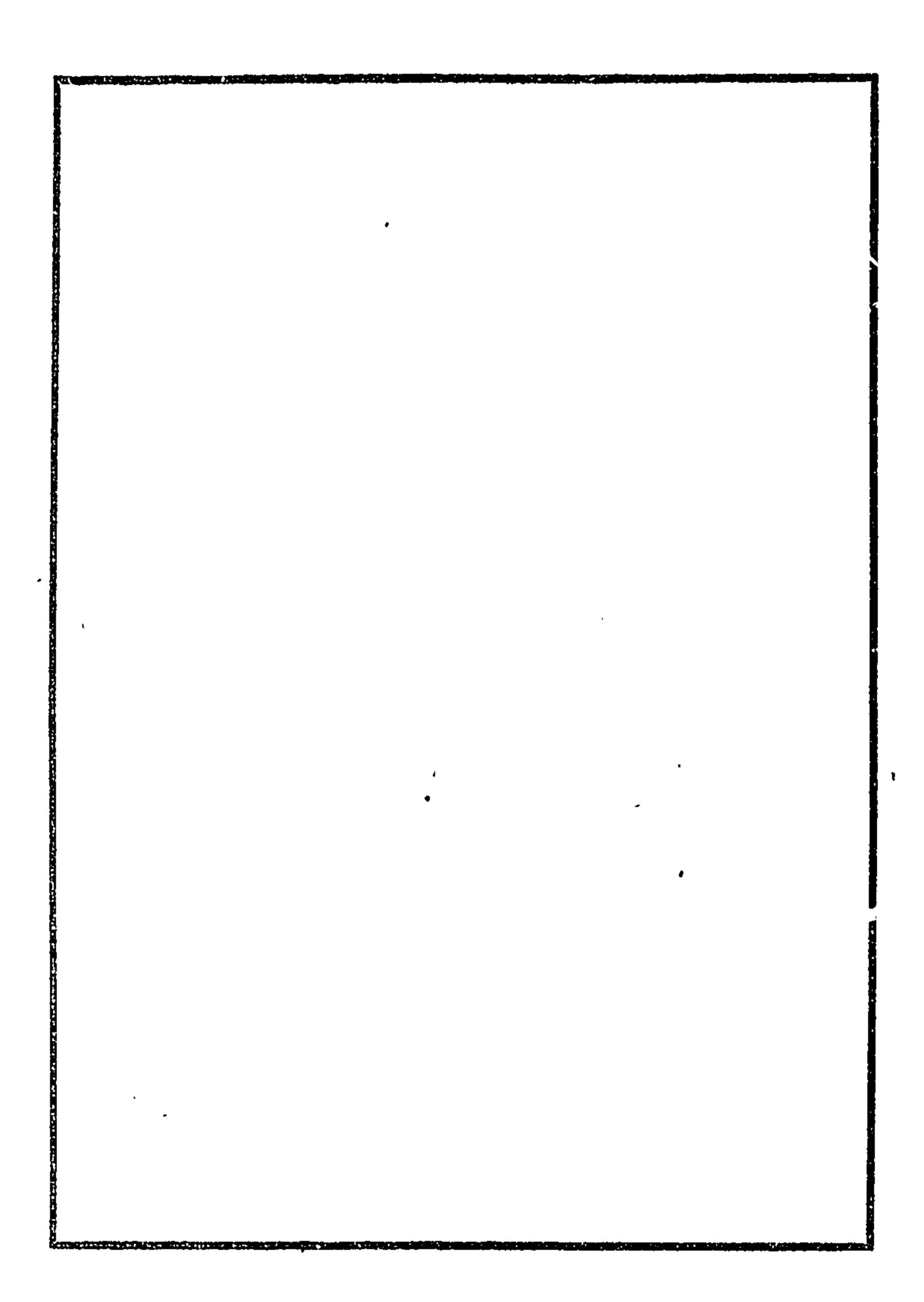
This little work is an attempt to point out, in a simple way, the methods to achieve such results.

With respect to the forms for assignment, license and contract, and the advice given with reference thereto, the writer feels sure they will be of value to inventors and owners of patents, for he has found them reliable and convenient in practice.

The "Hints upon Invention" may possibly help some inventors, who are misdirecting their energies, to a clearer view as to how they may make their endeavors profitable.

If this little volume shall serve, in any measure, the purposes for which it is intended, the author's ambition with reference thereto will be satisfied.

W. E. S.



## PRELIMINARY.

Having made a really meritorious invention, and having secured a patent thereupon, the battle of the inventor, who would sell his patent, is but just begun. Heretofore he may have done some good skirmishing, but now he must face the music of solid battle.

All along till now, from the first crude conception of the invention, on through its various stages of triel and experiment, till the device stands forth completed, and yet on through the ordeal of the Patent Office, till its parchment, ribbon and seal assure the inventor of its protection, he is usually sustained by ar enthusiasm which suffuses his whole being with its rosy flush. In a sort of vague way, it has, all along, seemed to him that when his patent should issue, his labors would be done, and he would thenceforth rest on his well earned laurels. Not that the situation has thus stood forth in his mind, clearly and sharply defined, for it rarely occurs to an inventor to seriously consider upon what will be the state of affairs at this juncture, till the progress of events brings him to it, but the cloud which hovered over this bit of promised land roughly assumed this shape.

When the inventor has finally received his patent, and read and re-read it some dozens of times, it begins to occur to him that he will just thrust in his sickle and reap a little of the golden harvest, which imagination has, all along, been sowing for him. Plainly, he looks around for a purchaser, and with a kind of astonishment, waking up, as it were, from a dream, he finds that purchasers do not stand around ready to exchange their filthy lucre for

his invention. Generally unaccustomed to the ways of business and of business men, he finds himself, in a short time, as helpless in his endeavors as can well be imagined. He does not know what class of men will be most likely to take an interest in his invention, nor how to reach them, nor what to say to them. Not rarely, after a year or so of this blind groping, disgust with the whole thing sets in, and the inventor renounces this and all other inventions forever.

This has been the experience, over and over again, of thousands upon thousands of inventors, and in multitudes of cases where a purchaser has been found, the invention has been sold to him for a song, and the buyer, applying business principles to the management of the invention, has realized the lion's share of the money from it.

The Patent Office Reports are full of useful devices, which have never been introduced into the markets of trade, and which, it is easy to say, would have netted their inventors considerable sums of money, if they had been properly brought out in their time.

It is partly with the purpose of indicating to this class of inventors to whom they should present their patents for sale, and how to present them, that this work has been projected.

It must not be supposed that all inventions are salable, or that the directions hereinafter contained are infallible! Some inventions are very far from being improvements, for though they may be very ingenious, yet they are neither simpler, more efficient or cheaper than the common devices in use for the same purpose, and consequently there is no money in them. Such inventions may sometimes be sold to men with more money than good judgment, yet the cases where this can occur are so few, that it is not worth while to place any dependence upon them.

It is, however, believed that a person will rarely fail to dispose of an invention of any merit, if he takes the pains to understand and intelligently act upon the suggestions hereinafter contained.

## PATENT BROKERS.

Almost, if not quite, every issue of various scientific and mechanical periodicals are adorned with the advertisements of parties who hold themselves out as making a business of buying and selling patents, almost always strictly "on commission." The following, omitting names and localities, is the actual advertisement of such a party, as it appeared from week to week:

"PATENT RIGITS SOLD ON COMMISSION,
And Valuable Inventions introduced by the most experienced Patent Salesmen in the Union. \* \* \* No charge for our services, unless successful," etc.

This is a fair sample of a whole class of advertisements.

A letter addressed to one of these advertisers elicited the following reply:

" Dear Sir :

Your favor of the 3d is received. We charge from \$50 to \$250 for expenses of negotiating Patents, and 10 to 15 per cent for commission.

Yours, truly,

A letter sent to another elicited the following reply:

Deur Sir :

Your favor of the 7th is received. We have been so taken up with other matters, have scarcely had time to reply. Our terms require the patentee to furnish \$100, with which to advertise his patent, furnish one perfect model or drawing, and allow us forty-five days within which to make the sale," etc., etc.

Yours, Respectfully,

Similar answers were received to letters written to others of these brokers. They were invariably accompanied by circulars, describing in glowing terms the advantages the senders were able to offer. There was a striking similarity among these circulars, and, in one case, two were found, parts of which were identically the same, word for word, although they issued from offices more than a thousand miles apart.

It will be observed that these patent brokers always advertise to sell on commission. Their letters and circulars disclose that there is always an advance fee, varying from \$25.00 to \$250.00, which can hardly be said to be in conformity with the terms of the advertisements. Commission houses engaged in the sale of other articles always pay their own expenses, and not unfrequently advance money upon goods consigned them, before they are sold. For a patent broker to first advertise to sell patents on commission, and then, afterwards, to charge an advance fee, ought, at least, to subject him to suspicion.

Another thing—it is difficult to see what advantages a patent broker can have over the patentee, if the latter is once made acquainted with the way to reach probable customers. The broker certainly cannot understand the nature of the invention better than the inventor, and besides, as the buyer well knows that the broker must have a large commission from the price realized, he has an incentive to buy from the inventor, and save this commission.

The broker will probably claim-

First, that by education and experience, he is better qualified than inventors in general, to set forth the advantages of the invention, and the profits to be derived therefrom; and,

SECOND, that he keeps an open office, at a settled place, where a person seeking investments in patents may come, examine, and select.

To the first argument it may be replied, that the ability to well set forth the advantages of an invention is not necessarily incident to the occupation of a patent broker; and to the second argument it may be replied that the legitimate market for inventions is found among those who are engaged in manufacturing or selling

articles akin to the invention on sale, and that this class of men will, as a rule, display their usual shrewdness, and much prefer to deal with the inventor, at first hand, and thus save the heavy commission, which they well know the broker must receive.

The sum of money which these brokers require as an advance fee, will, in most cases, pay all the expense of presenting an invention to all that class of persons who will be likely to buy it, which is all that the brokers will promise to do, and the invention is, meanwhile, entirely within the control of the inventor.

These remarks are based upon the supposition that the advance fee paid to the broker is wholly and honestly appropriated for advertising, etc., about which a person is justified in entertaining grave doubts.

At any rate, it is better for the inventor to wait till he has exhausted all the unequivocal resources at command, before resorting to this.

## PREREQUISITES.

#### 1. MODELS.

It is absolutely necessary, in offering a patented invention for sale, to have one or more perfect working models. If the invention is a machine, and not too large and costly, and it is within the inventor's means, he should construct, or have constructed, at least one full sized machine that will work to perfec-

tion. If, beyond question, the machine is too costly to allow of the inventor's building one, then he should have in its place complete, artistic drawings in elevation, plan and detail.

In making a model, it is not enough to construct a rude device, which, in a halting and awkward way, will illustrate the principle of the improvement. The machine should be most carefully and perfectly made. The mass of minds will much more readily understand and appreciate the principle of the machine if the mechanical execution is perfect. Whatever the after made machines may be, the first one should be as near perfect as possible. The inventor will usually find that, at his best, he will have enough to apologize for, without being responsible for poor workmanship. It is ruch easier to interest a crowd in a fine piece of mechanism, even if the device be old, than in a new but roughly made invention. The tea, coffee and spice merchants understand this, and take advantage of it, when they put in their windows handsome specimens of small steam engines, which are supposed to be always grinding fragrant Mocha or Old Java, the merchants well knowing that halt the people who go by will take a look at the polished and painted mag hinery, and will thereby be drawn to look at their merchandise,

If the invention is a small article, as a shirt stud, a mouse trap, a toy, or a clothes line holder, it is best for the inventor to have quite a number made, that he may send samples to those who may become interested in the invention, if it should be found desirable. If the invention is a new compound, or a new process, the inventor must provide materials, etc., for explaining and illustrating the process, or the effects of the new compound.

#### 2. FIRST COST.

Another necessity, in offering a patent for sale, is to be able to show just what the first cost of the article is. If the invention is some complicated and costly machine, the inventor must show,

either from his own knowledge, or the calculations of some competent person, what is its first cost.

A competent person would be a civil or mechanical engineer, or a machinist, or other mechanic of experience in constructing other machines of the same general nature. If a responsible party can be found, who will agree to furnish the machine well made, for some certain sum apiece, this is an important item to be had.

If the invention is some small device, and not costly, the inventor should have some dozens, or, better still, a few hundreds of them made, so as to get at the exact first cost. To find a responsible party, who will undertake to make the articles for a certain sum per hundred, per gross, or per thousand, is also important here. The difference of two or three cents, in the first cost of small articles of general use, often determines who shall command the market; in other words, who shall make money from the manufacture, and who shall lose.

If the invention is a new process, the inventor must be amply prepared to show the cost of his process, as compared with that in common use for the same, or similar purpose.

#### 3. THE PROFIT

The profit made on a single article is, of course, the difference between the first cost and the retail price at which it is finally sold to the consumer. To determine the amount of this profit upon a new invention is a necessary thing, before offering it for sale. The whole profit is divided into three, and sometimes four parts, viz. the manufacturer's profit, the wholesale dealer's profit, and the retail dealer's profit. The manufacturer sells to the wholesale dealer, the wholesale dealer to the retail dealer, and he to the consumer. There is, sometimes, intermediate between the manufacturer and wholesale dealer, the jobber, but the writer fails to see the use of such an intermediate, and if he is made use of, his profit should be a per centage on the profit of the manufacturer, so that

in making the division of profits, it is not necessary to consider the jobbber at all. The retail price of the article should be fixed as is commensurate with the allowance of fair profits to each of these parties. If the invention is an improvement upon an article in common use, as for instance a flat iron, and the first cost of the article is not greater than the first cost of the common article, then it is probably best to adopt just the scale of profits which obtains in the trade with regard to the common article. An inquiry put to a friendly dealer in the articles upon which the invention is an improvement, will elicit what these profits are. If the first cost is somewhat greater, then the retail price should be correspondingly advanced, the scale of profits being kept at about the same ratio of correspondence. If the first cost is less than that of the common article, it is probably advisable to keep the retail price up to that of the common article, and thus give larger profits.

There is no general correspondence of profits to these three parties, on different articles. The profits on different manufactures differ widely, and with no reference whatever to a common standard. The only rule that can be given, in this regard, is, to ascertain the scale of prices and profits which prevail from the manufacturer to the consumer, in the trade, upon articles which are nearest like the invention under consideration, and then to assimilate, as far as possible, the profits upon the new article to this scale, varying, however, as any good reason may dictate. If the invention is a new process, the inventor must be prepared to show the gain in using the new process, as compared with the old, and the increased profit secured thereby. The same is true, if the invention is a new machine for producing an old article, as, for instance, drain tile.

#### 4. THE MARKET.

Having ascertained the first cost of producing the article invented, and having fixed upon the profit to be derived from a

single article, the next step is to enquire how extensive a market is offered to the invention.

If it is an invention useful to both sexes, to children and adults alike, it will have for a market the whole population of the United States, over thirty-eight millions of souls. If useful to adult males only, the market will be about one-fourth of this number. This thirty-eight millions of population is composed, roughly, of males and females in about equal proportions, and each of these divisions is composed of about one-half adults and one-half children, so that, if the invention appeals to persons irrespective of their avocations, the market for it is readily computed. If the invention is one which will be useful in every family, the market will be about one-eighth the whole number of souls, as on an average there are about eight persons in a family.

The full census report for 1870 will probably contain such full statistics of the different trades, professions and callings of the people of the United States, that there can be readily gathered from it how many there are of any class or classes of persons to whom an invention may be of particular utility, and the whole of such class or classes will constitute the market for the invention.

Instead of being directly useful to any class of persons, an invention may be an improvement in the manufacture of some article, as flour barrels, for instance, and then it is necessary to ascertain the actual annual production of this article in the country; or, it may be an improved process, say of smelting iron, and then it is necessary to find how many tons of iron are annually smelted. The census of 1870 will be a great aid in ascertaining most, if not all of this information, but when it is deficient, the librarian of almost any public library can direct an inventor where to find the desired statistics. The wants which inventions are designed to fill are so various, and the statistics which would answer all such enquiries fill so many pages, that it is impracticable to more than direct, in this book, as to what information is needed.

One element which must be taken into account in determining the extent of the market for a new invention, if it is an article and not a process, is its durability. If the article, when once sold to the consumer, will last him for ten years, of course the market for that article is not so large as it would be, if, in the natural course of things, it would last but a short time, and then would require to be renewed. Having ascertained the extent of the market for a new invention, the gross profit to be derived from it can be readily computed, by multiplying the profit upon a single article by the whole number which may probably be sold.

#### B. CAPITAL REQUIRED.

If the amount of capital required to develop an invention, and introduce it to the public, is small, this will be an additional argument to use in selling.

#### 6. PRICE TO BE ASKED.

This is a matter, for determining which no absolute and definite rule can be given. It is pretty safe to say that inventors are rather apt to overestimate than underestimate the value of their inventions. Of course, the more profit there is to be made from an invention, and the larger market there is for it, the more valuable it is. If it appeals to but a small and widely dispersed class, its value will be less. If it is a new and radical improvement in the manufacture of some staple article, as iron or steel, like the Bessemer process, for instance, a half million dollars would be a moderate price for it. If a meritorious improvement on some household article in general use, or some article of dress, or a new and amusing toy, a few thousands might be a fair price. Again, if a really valuable improvement in some important agricultural implement, as a reaper or mower, from twenty to fifty thousand dollars would probably not be exorbitant. In no case can an inventor expect to get but a fraction of the value of his invention, as shown by the gross profit to be derived from it, for he must be able to offer the lion's share of this profit to the purchaser, as an inducement to buy; and, besides, the purchaser will have the trouble and risk of making this profit piecemeal, as it were, from the actual use and sale of the invention. The advice of friends who are in business, especially if their business is such as to make them conversant with the market for the device under consideration, will be of great value in fixing the asking price for a patent. Having fixed upon this asking price, it is then quite safe to lessen it by at least one-fourth of its amount, and on this basis proceed.

#### 7. THE VALUE OF PARTS OF A PATENT.

Having fixed upon the gross sum to be asked for the whole of a patent, it is very easy to determine the value of territorial rights under the same. If the whole value of a patent is ten thousand dollars, a state right will be worth just such a part of the whole, as its population bears ratio to the population of the whole country. Take, for instance, the State of Connecticut. Its population is about five hundred and forty thousand, while the whole population of the United States is about thirty-eight millions. The value of the right for this State will be arithmetically expressed 540,000 of \$10,000=\$142.00; or, not to put too fine a thus. point upon it, \$150.00. But the inventor cannot afford to sell one state at the same rate that he would sell all the states in a lump. The price for a single state should be double of the exact proportion which the one State bears to all the States together, so that the price of the State of Connecticut would be three hundred dollars. This rule, however, should not be stringently applied to any of the Gulf States, nor to any state west of Missouri, except California, for the reason that these excepted states are not as much interested in manufacturing as are their sister states, and for some other reasons, do not offer as good markets.

An advance of fifty per cent over the value, as determined by the population, is enough to put upon these excepted states. No advance whatever, over this value, should be asked for territories. Having ascertained the value of a state in this manner, the value of a single county can be determined in precisely the same way, first finding the value as determined by the ratio the population of the county bears to the population of the whole state, and then doulding the sum. The value of a town may be determined in precisely the same way from the value of a county. The census of the United States, taken in Eighteen Hundred and Seventy, by states and counties, will be found further along. Those who desire to sell rights for towns, will have to procure the more extended census report for this purpose.

#### 8. SHOP RIGHTS.

A "shop right," so called, is the right to use the patent or manufacture under it, at some shop or manufactory; it may be restricted to a certain place, or left unrestricted. It cannot be considered advisable to make sales of this kind under a patent, unless there are strong reasons why the territory should not be sold. As such a right, when no royalty is reserved, is liable to abuse, it is very difficult to fix upon the value of it, for although a factory may have been doing but a small business, previous to the purchase of the shop right, the factory may thereafter expand its business, so as to practically interfere with sales under the patent in all parts of the country.

A shop right should be limited to a certain annual production and to a certain place. If this is not done, an effort should be made to ascertain the annual production of the factory to which the sale is to be made, as compared with the like product of the whole country, and then a proportionate price should be fixed upon the shop right, doubling the value as shown by the computation, in the same manner as was directed for fixing the value of state rights.

There are some kinds of patents under which it may be advisable to sell shop rights; as, for instance, an improvement in the manufacture of steel. The greater part of all the establishments for making steel will be found congregated in three or four manufacturing centers, and the proper and sensible way of making such a patent available to them, is to sell them each a shop right. It is not difficult, in such cases, to ascertain the amount of the annual production of each establishment, and this amount, as compared with the whole annual production of the whole country, will furnish the basis for computing the value of the shop right, provided, of course, that the gross price for the whole patent has already been fixed upon.

#### 9. ROYALTIES.

A royalty is a duty paid by one who uses the patent of another, at a certain rate for each article or quantity manufactured, or a per centage upon the sales. This method of realizing from a patent is, perhaps, the commonest of any, and if the patent is a valuable one, and the party who manufactures the article acts in good faith, it is generally the most profitable for the patentee in the long run. On the other hand, if the patent is of doubtful merit, the patentee better sell it outright, and it will be best in any case, if a fair price can be realized, for both parties to the negotiation will then be freed from any danger of injury happening to them from the bad faith of the other party.

The royalty to be asked, where a patent is let out in this way, differs very much with the article which is the subject of the patent. If the patent is an improvement upon an article of staple manufacture, it is best to keep the retail price as low as possible, and to effect this, the royalty must be low, varying from three to five per cent of the amount of the sales. On large and heavy machinery, from five to eight per cent of the selling price is perhaps a fair charge. On agricultural machinery, from six to nine would

not be unreasonable. On small articles of jewelry, fancy articles, toys, dress, etc., etc., a royalty amounting to ten per cent of the gross sales is not too much. In any case, it is not best to leave the manufacturer free to make as many or as few as he chooses of the article, for he may choose to make none, and then the patentee will get nothing, and the manufacturer will still retain his license. All agreements upon royalty should contain a clause that if a manufacturer shall not pay royalty upon a certain minimum number, the patentee shall have the option of declaring the license null and void.

Forms of this kind will be found further on. All such agreements should also contain a condition, that at stated times the manufacturer shall render to the patentee a true and exact account of all the patented articles made and sold by him, since the last account and payment, to which account the patentee shall have the right to require the oath of the manufacturer, and that if then the patentee is not satisfied, he shall have the right to view the manufacturer's books.

If one manufacturer will undertake to supply the whole market, and will fix the minimum royalty which he must pay sufficiently high, then it is best to let him have the sole right to manufacture; but if it becomes necessary to let the patent out to more than one, then the minimum amount of royalty should be fixed upon the same general principle as followed in determining the value of a shop right.

# TO WHOM TO OFFER THE PATENT AND HOW TO OFFER IT.

Having settled all these preliminary matters, and having become acquainted with the nature of the various kinds of rights. which it is usual to dispose of under patents, the next question to be answered, is, "What class of persons will be the most likely to buy the patent, or rights under it." To this the answer is plain. If it is an article in distinction from a process, it is likely to be most readily sold to some one of that class of manufacturers who are making articles of the same class as this. "How to get the names and addresses of all of such a class?" Answer-there are men in New York and other large cities, who make it their business to furnish, for a reasonable consideration, full and complete lists of all parties engaged in any particular trade, occupation, profession, or manufacture throughout the country. The inventor has, let us suppose, devised a new and useful article of jewelry for gentlemen, say a shirt stud or sleeve button. He, of course, will naturally expect to sell his patent to some manufacturing jeweller, and accordingly he will procure, from one of these agents referred to, a list of all such parties, either in some particular part of the country, or in the whole country.

It is not generally, advisable to procure more than a partial list, at first, because a sale may be made to one of these, and if not, then the list can be readily enlarged, from time to time, as may become desirable

Having p. Eured such a list of parties, the next thing is to properly present the thing to them, one by one and for this purpose it is advisable to prepare a circular, bearing a good "cut" of the invention, if it be susceptible of such illustration, and containing a concise, but very careful description of the invention and its operation, setting forth its advantages over the common article, or pro-

cess, on which it is an improvement. It should contain a careful statement of the actual first cost of the article or process, supported by facts and figures, and offers of responsible parties, if any have been made, to manufacture at such prices. It should also show what a reasonable retail price would be, as governed by the margins which obtain in the trade for similar articles, and from this deduce the profit to be made on a single specimen. It should further show, by actual statistics, taken from reliable sources, how extensive a market is offered to the invention, taking into account the average life of the article and the whole duration of the patent, and from this should be computed the whole sum to be realized, if the whole market is supplied. This figure will always be a large one, and after making this computation, it is advisable to say, in substance, as follows; -- "even if but one-half or one-fourth of the whole market is actually supplied, the gross profit will be," etc., etc. which, being a reasonable supposition, can hardly fail to carry weight. If the claim in the patent is a strong one, it is best to insert it in the circular, and call attention to its strength.

It is, probably, not best to put into the circular the terms upon which the patent, or rights under it, will be sold. That can be better set forth in a letter to accompany the circular. The following circular, founded upon an imaginary "Improved Collar Stud," will illustrate the general method to be followed in preparing such a circular.

## Improved Collar Stud.



LETTERS PATENT NO. 100,010. DATED JUNE 6, 1871.

This is an indispensable article of a gentleman's toilet. It is not only a perfect collar stud, but an equally perfect tie holder. All who have ever worn a "snap" or butterfly tie—and this comprises all American mankind—are well aware of the vexations incident to fastening the loop of these ties over the common shirt

button, or collar stud. Many a hasty, if not profane, ejaculation has been the result of attempting this task. It has often been a matter of equal disgust for a gentleman—a wearer of one of these ties—on reaching home, to find that he has been bravely marching through the streets, minus a neck-tie, which has, in an unlucky moment, escaped the faithless grasp of the common button, or stud.

This little device completely cures these troubles. The loop of a tie is as readily slipped into one of the little hooks, upon the front of the stud, as a hat is hung on a nail, and it cannot escape

therefrom by accident.

The owner of the patent, which has a broad and strong claim, is not in circumstances which will allow him to undertake the introduction and sale of the studs. He will, therefore, dispose of the patent, or rights under it, and asks attention to the following

remarks, which show its great value.

First Cost.—It is made of gold plated sheet metal, commonly known among manufacturing jewelers as "stock plate," and all the parts are struck up by dies, so that it can be made very cheaply, at a cost not exceeding five cents apiece. Messrs. Brazos & Copperman, of Waterbury, Conn., and also Mr. Chas. Ringman, of North Attleboro, Mass., have offered to make them, in quantities, at that price. Of course, if these parties can furnish the study at that price, the real cost is less, for manufacturers do not generally

carry on their business for fun or philanthropy.

The Retail Price.—Plated collar studs, of the common kinds, sell at retail prices varying all the way from twenty-five cents to one dollar, according to plate and workmanship. No stud, which is as well plated as this, sells for less than fifty cents, and as these last are merely the common kind, with no improvements, fifty cents would be a reasonable retail price for this improved stud, giving, as the profit on a single article, forty-five cents. This allows the manufacturer to sell to the jobber for ten cents apiece, a profit of one hundred per cent; the jobber to the wholesale dealer for fifteen cents, a profit of fifty per cent; the wholesale dealer to the retailer at twenty-five cents, a profit of sixty-six and two-thirds per cent; and the retail dealer to the consumer at fifty cents, a profit of one hundred per cent; so that while the retail price is not higher than for the common article, the profits of all concerned are enormous, and will make it a favorite with the trade.

The Market.—Of the 38,000,000 of people in the United States, about one-fourth, 9,500,000, are men, and about one-half of these, 4,750,000, are ma'e youth, the whole mass of whom wear

ties, three-fourth's of them, 3,562,500, "snap" ties. One of these studs can be sold to at least one-fourth of this last number, which makes 890,625, on which the owner's profit, at five cents apiece, amounts to \$44,531.25, and as the average life of a stud is about two years, this sum must be multiplied by eight to give whole profit for the seventeen years duration of the patent, which gives the comfortable product of \$356,250.

THE CAPITAL REQUIRED is very small, and can be rapidly

turned over.

For Terms, etc., address

GILES GENIUS. Hartford, Conn.

This circular should be printed in good taste. If the inventor can afford to put it on heavy, tinted paper, in some fashionable type, as is the so called "old style" at present, with a red line around the edge for a border, so much the better. The matter of the circular should be written in as clear, crisp and sparkling style as the nature of the subject will admit, and the composition and press work be as perfect as possible.

If the inventor, himself, is not capable of doing justice to the subject, let him find some literary friend, or some other properly educated person, to do it for him. Let the statements be just as strong as the facts will bear. It will be observed that the terms are not given in this circular. This, with some other matters, can better be reserved for a written letter, to accompany the circular. It is advisable to accompany this circular with a written letter, for the reason that the receiver thereof will be obliged, in common courtesy, to give the matter attention enough to understand it, which attention he might not give to a mere circular. Besides, the letter makes the matter more of a personal thing to the receiver, and does not make the terms public, all of which tends to give weight to the matter. The general style may be understood from the following form for such a

#### (LETTER.)

[Confidential.]

HARTFORD, Conn., Jan. 1, 1871.

Mr. HIRAM HAUTBOY:

Dear Sir:—May I ask your careful attention to the enclosed circular? I believe that the facts set forth therein will show you that I offer for sale a really valuable invention. The figures, making every possible allowance, and then dividing this by a large fraction, show that there is a fortune in this little thing. But I am in no condition to undertake the introduction of the article.

In the first place, I have no means.

In the next place, I am a mechanic, and ignorant of business ways and business men.

You are in a business which will enable you to manufacture

and introduce this stud readily.

I offer you the whole patent for \$5,000. I shall be satisfied to take part cash, and part approved notes. If you do not care to purchase the whole patent, I may be willing to sell you a territorial or shop right, or allow you to manufacture on a royalty.

This offer is made to you alone.

The thing will not be offered to any one else, unless you refuse to buy, when I shall offer it to others in your business. Be kind enough to answer at once. If an answer is not received by me within seven (7) days from this date, this offer is from that date withdrawn.

Very Respectfully,

GILES GENIUS.

This circular and letter should be sent to the different parties mentioned in the list, sending to but one party at a time, and waiting till the expiration of the seven days or other set time, for an answer, before sending to another.

When an answer is received looking toward negotiation, if any definite terms are offered, the inventor should most carefully consider upon it, before rejecting, even if greatly under the price asked, remembering always that all that is made over and above the actual expenses incurred, is clear profit. If a shop right, territorial right, or royalty right is wanted, the suggestions in the foregoing pages, on fixing the value of such rights, will be found of assistance.

If it is thought that better terms can be obtained, it is best to inform the correspondent that the inventor is "greatly obliged for the kind offer made, and will take it into serious consideration," etc., etc. A rule which should be imperative in all business matters, comes into play here. Never be rude or peremptory in declining an offer, but always express yourself in the kindest and pleasantest terms of which you are master.

It is hardly possible that an inventor of any merit can run the gauntlet, in this manner, of all the manufacturers in the country, whose business is of a kind to naturally interest them in the invention, without finding a purchaser.

### NEWSPAPER ADVERTISING.

Another method of getting an invention before the public, is through the medium of newspaper advertising. This is more expensive than the method just described, and is not, perhaps, advisable till that fails, though it may be often happily used in conjunction with it. If the inventor can afford it, it is well to have the invention illustrated and described in one or more of the scientific and mechanical publications of the day, of which the Scientific American, and American Artisan, of New York, and the Scientific Press, of San Francisco, are notable examples. Such illustration and description may sometimes, of itself, prove sufficient. If not, it may be followed up by ordinary advertising; or, this illustration and description may be dispensed with, and the advertising confined to the regular advertising columns. In doing this, the advertisement should be inserted in the paper or papers which

are designed to meet the eye of the class or classes of persons to whom the invention is of special interest. Any reliable advertising agent will be pleased, on request, to furnish, free of charge, a list of any required size, extending over the whole country, or any part thereof, which circulate among any special class of people, and the advertisement of the invention should be inserted in one or more such papers, as the judgment and means of the inventor may dictate. It is very much better to insert a small advertisement in a large number of papers, than to occupy a large space in a smaller number. The experience of old advertisers confirms this proportion. If the inventor is not skilled in writing advertisements, it will be best for him, if possible, to get some friend, or other properly skilled person, to write the advertisement for him, for it is no common accomplishment to be able to put into a small space, in an attractive and striking, and yet not vulgar manner, a notice of any thing, which shall say just enough to induce the reader to push further inquiries. Suppose the invention to be an improvement in the manufacture of coach varnish: an advertisement something like the following, would not be inappropriate:

A NEW COACH VARNISH. A most valuable patented improvement in coughly tried and tested. Address

A most valuable patented improvement in Coach Varnish is offered for sale—thoroughly tried and tested. Address

T. W. COPAL, Huyshope, Conn.

This will occupy but few lines of space, and yet tells enough to interest varnish and coach men therein. It is not advisable to make much parade of the patent, as a patent, for there is something of a prejudice among business men generally, against patents, on account of the great number of humbugs which have been pushed into notice under their guise, but this prejudice vanishes, when they discover that the patent covers a real improvement.

The proper papers in which to insert an advertisement like the above, would be those which are intended for circulation among varnish users, varnish manufacturers and carriage builders, a list of which, with the charge for insertion, the advertising agents can readily furnish. When answers to advertisements are received, they can be replied to by such a circular as that hereinbefore described, accompanied by a letter substantially like that set forth, changed to meet the requirements of the case.

The inventor must not be afraid, if his means permit, to continue his advertising for some little time, for experience has shown that unless a person is more than ordinarily interested in the matter advertised, he has to see an advertisement a number of times before he will take any active step in reference to it.

#### PERSONAL SOLICITATION.

Patents are frequently sold by personal solicitation, and if the inventor cares to make the sale of rights under his patent his main business, and can get safely through the period of rawness which always attends the commencement stage of all such attempts without giving up the business in disgust, this method of sale may prove, in the end, the most remunerative. The inventor must, however, give his whole time to the business, must have means sufficient to allow him to travel, and must persevere till he learns not to be discouraged at any and all disheartening obstacles he may encounter.

In short, he must make of himself a successful salesman, and a salesman of rather a rare order, a task which is evidently so difficult, that unless an inventor is satisfied he has peculiar qualifications for it, he better not undertake it. If he does, however, see fit to undertake it, a few suggestions may be of assistance. Upon arriving at a town where he proposes to make a sale, he should be provided with a good model or models, and pleaty of circulars containing substantially the matter set forth in the circular hereinbefore described, making the closing part to read—"Rights for sale on the most liberal terms at" (wherever the inventor has his head-quarters). If the place boasts a newspaper, the matter should be duly advertised, and good "local" notice will be found a great help.

Suppose the invention to be a new domestic article, as a knife sharpener, the advertisement might be in substance as follows:

Of course, having interested a man enough to call, the inventor must press upon him by aid of model, facts and figures, etc., the money there is in it for the purchaser. If any resident of the right stamp can be made to assist, by giving him a commission on sales, it will prove a valuable help.

A thing sometimes done by traveling salesmen of patents is, to find some resident who is "up to snuff," as the saying is, and arrange with him that he shall hold himself out as ready to buy a half interest in the territory which it is proposed to sell, and they two, the salesman and the decoy duck, go in search of some third party who will really buy the other half. The price of the territory is put at double that which the seller really means to realize, and when the third party is found to really buy the other half of the right, the territory is assigned to the decoy duck and such party jointly, but no money is paid, except by the third party, and out of this the seller usually pays a commission to the decoy duck.

The fact that a neighbor is ready to purchase a half interest in the right, is a great inducement, usually, to the third party to buy the other half.

Of the morality of such transactions the reader will judge. If the inventor chooses to take his model in his hand, and attack parties most likely to become interested at their places of business, he may make sales, but in this case he will find that previous advertising will pave the way for the personal effort.

#### ITINERANT AGENTS.

In almost every county in the United States may be found persons who, off and on, as the phrase is, make it their business to sell patent rights, traveling about the while for that purpose. It must, in truth, be said that some of these, by their fraudulent practices, have done much toward bringing the business of a traveling salesman of patents into disrepute. These fraudulent practices have consisted in making grossly false representations, as to the first cost of their articles, in taking notes for the whole or part of the consideration of the sales, under the promise to retain them till due, so that the purchaser should have a chance to see that their representations were true, before making final payment, and then selling the notes instanter, and the like.

Many of these men; the honest ones, are really good agents to employ, as they are usually willing to bear their own expenses, and take a share of the proceeds of the sates for their pay. If an inventor has a choice among different ones, he should, other things being equal, select the one who has means that make him pecuniarily responsible.

Unless a person has such means, or unless the inventor is satisfied that he is a man of the firmest integrity, it cannot be considered safe to give him an unlimited power of attorney to make

sales, nor even then is it desirable, because it is always best to make sure that the agent cannot keep from the inventor any of the funds he may receive, nor put the patent into the hands of a confederate, by means of a bogus sale.

Control over the funds received can be kept, by providing, in the power of attorney, that all cash received shall be deposited to the joint order of the agent and the inventor, and that all notes taken shall be to their joint order.

Control over unadvisable or fraudulent sales can be kept by providing, in the power, that the sales made are conclusive, unless the inventor shall, within—say ten—days, signify his non-acceptance thereof. Forms for powers of attorney, with these or equivalent provisions, will be found further on.

## STOCK COMPANIES.

A great many patents upon inventions which are either considered very valuable, or which require a large capital, to make them available, are realized from by making them the property of stock companies, which are either specially chartered by the state or national legislature, or are organized under the joint stock laws which prevail in most, if not all the states. This a perfectly legitimate, and often a very easy way of realizing money from an invention.

The inventor takes his pay either wholly in cash, or from stock in the company, or partly in cash and partly in stock,

The modus operandi is as follows:—the inventor, let us say, wishes to realize \$10,000 in cash, and \$10,000 in stock, and it is necessary to have \$15,000 actual cash capital to work the patent.

In such a case the nominal capital of the company may, generally, well be put at \$100,000.

We will, first of all, reserve \$15,000 of this nominal capital to be used in securing the aid and countenance of influential men, to be given away by the inventor for this purpose, though of course this part of the operation is usually confidential between the inventor and those whose aid he seeks. The inventor must therefore reserve for himself, in all \$25,000 of the nominal stock.

This leaves \$75,000 in stock to be sold, whereby to realize \$25,000 in cash, \$10,000 for the inventor and \$15,000 for actual cash capital.

Now, to raise \$25,000 cash upon \$75,000 nominal capital, each share sold needs to pay but one third of its nominal value, so that there is a great inducement in this for parties to invest in the stock.

Of course to make this operation successful, the inventor must be able to show, by facts and figures, a good prospect of paying from six to ten per cent dividends upon the nominal capital, and if he is able to do this, and acts with a fair amount of shrewdness in securing the help of two or three influential men, by the old of the \$15,000 in stock which he has set aside for this purpose, his task is very easy.

The inducements he may hold out to investors are not only the hope of gain from dividends, but the prospect of becoming officers of the company, as president, secretary, treasurer, director, etc. When such companies are organized, it is very common for the company to retain the services of the inventor in some capacity, so that the inventor is well rewarded by present cash, by stock, and by future employment.

If the inventor is content to take his pay entirely in stock, then his task is just so much the easier, and if he is able to organize his company without giving away stock, this again lightens his burden. If the inventor is willing to put in his invention against, say, \$10,000 actual cash capital, then he may be able to find two or three men, or possibly one man, who will put the cash against the invention; and, in short, there are numberless ways in which this programme may be varied to meet the circumstances of each particular case.

The details of the organization of such companies must, of course, be performed under the direction of some competent law-yer, who will see that the local laws governing such matters are duly complied with, but farther on, in the part of this book devoted to forms, and instructions relative thereto, will be found a form for articles of association of this kind, such as is in use under the laws of the State of Connecticut, which laws are substantially the same as those of other states upon the same subject.

#### HOW TO WORK A SPECIALTY.

The following article, taken from the "Chemist and Drug-gist," published in London, although specially applicable to the sale of patent medicines, will be found very suggestive to all those who have patented articles to introduce:

"Without having the pretension to disclose any new systems, the writer will rapidly note a few of the various methods of establishing and developing the sale of proprietary articles, which have come under his personal observation, during a somewhat extended experience in England, France and America. Patent medicines, perfumeries, toilet preparations, dietetic productions, and other specialties are now so numerous, and in many instances are pushed so vigorously and with so much skill, that when it is proposed to

launch any new item, or develop the sale of one already partially established, the magnitude of the task appears startling. To attract attention to any preparation, however good and well adapted to the wants of the public, is a task of such an expensive and laborious character, that a brief study of the systems followed by the successful men of the day, in this field, may be regarded as a topic of general interest. Whatever may be the scientific opinion in regard to the leading proprietary remedies in vogue, and however much their authors and compounders may lack professional status and a legitimate endorsement of their preparations, it is quite evident that hundreds of these men have succeeded in attracting public notice to themselves personally, as well as acquiring a great celebrity for their articles, by the unusual enterprise, skill, and general business talent displayed in the management of their specialties. It is not difficult to regard such men as likely to achieve success in almost any matter they may undertake, endowed, as they generally arc, with the personal characteristics which emphatically command success. Therefore, it is quite correct to suppose that the great fortunes we hear of being accumulated by noted proprietors of specialties, are not exactly happy accidents, but the result of patient and intelligent labors, united to a judicious audacity and liberality.

"The personal acquaintance of the writer with a number of such men of the three nationalities already named, will enable him to indicate a few of the salient points in their methods of management. While it is quite true that many articles of questionable merit have, by mere force of publicity, been established on a renunerative sale, it is without any doubt essential to the success of preparations in general, that they should possess positive merit, and be well adapted to meet some general public want, otherwise the efforts made to introduce them will be full of difficulty. The notion sometimes heard—that advertising will make anything sell—is simple nonsense, as every large advertiser knows. Advertising will undoubtedly create a temporary demand for almost any article

but unless the article itself responds to an evident public need, and is one which is intrinsically good, and likely to make its way on its own merits, as soon as the public attention to it has been gained, it will prove anything but a profitable enterprise, to make a serious campaign on such a basis.

"At this point, let a word be said on the utter inutility of investments in publicity, to develop sales of worthless and trivial articles; and also let it be noted that all successful patent medicines, notwithstanding that they are oftentimes popularly denominated nostrums, quack remedies, &c., must, and often do possess intrinsic value, otherwise they could never attain any sale of magnitude or permanency. It is quite true that the enormous aggregate sales of patent medicines throughout the globe, a sale which has been extending with tremendous rapidity for the last decade, evidences a great popular want of cheap remedies which may be obtained in the shops, and which in many instances renders the expensive services of a medical man quite superfluous.

"The profession in France has legitimised patent remedies, and the popular verdict in other countries has been in their favor. In America, where, in consequence of the vastness of the territory, medical aid sometimes cannot be obtained for miles, these popular compounds are oftentimes of great service in maladies lacking gravity.

"In proceeding to notice more particularly the business aspects of the topic, it may be remarked that the introduction of a compound of undoubted excellence may be accomplished at a limited outgo, by adherence to certain very common sense methods too often lost sight of by enthusiastic projectors. The style of get-up of an article has oftentimes a considerable influence upon its success. The best illustrations are undoubtedly furnished by the French, who have, in the forms of their bottles, style of typography and wrapper, generally excelled the English and American productions.

"The retail prices should be in even shillings, francs, or dollars, although a contrary custom prevails in England and France; and where various sizes of bottles are introduced, the prices should be the multiple each of the other, and the larger sizes contain relatively more than the smaller ones. The retail prices should always be printed upon the outside wrapper. The sending out of bottles of patent remedies without an outer wrapper is objectionable. The directions for use should always, no matter how voluminous they are, be wrapped around the bottle or box, inside of the wrapper; it is decidedly objectionable to have them furnished separately, to be delivered by the retailers.

"The American plan of printing the title and other matter on the different sides of the bottle, in the four languages most in vogue, as well as full directions in all these languages, in the prospectus which is wrapped inside, is an excellent one. In the case of small toilet and remedial articles, the plan pursued in England of getting them up in counter cases is very effective for the purposes of introduction and advertisement, but too expensive to admit of after supplies being furnished in that way. The Americans have given a great deal of attention to putting dozens and half dozens in pasteboard boxes, with very bold outside labels. These, regularly arranged upon the shelves of a country druggist's shop, form a very cheap and effective advertisement, and also keep in good condition any bottles that may not be exposed for sale in the large plate glass counter show-cases so much in vogue there. For shipment, these paper boxes are packed generally in wooden cases of one dozen each, and these gross boxes are supplied without charge, the four sides being, when sent out by the proprietor, boldly branded with the title of the article. It is a common thing to notice in American druggists shops, piles of these wooden cases many, no doubt, innocent of contents—but all forming very cheap and effective advertisements. The array of paper box "dummies" is also something wonderful, on the shelves and in the front windows, No box of this kind is ever destroyed, as long as there is any vacant space in the shop, its value in catching the eye of the customer being too great. These paper boxes and wooden cases are also well supplied with show bills, and small cards to hang up at odd corners of the shop, and a few dozen circulars for the counter, In some instances the gross cases contain beautifully gotten up illuminated show-cards, handsomely framed.

"From these details it will be perceived that the Americans are fully alive to the benefit to be derived from furnishing the retail dealer with a splendid supply of weapons for publicity in his shop. As the druggists there are much more willing to exhibit show bills and cards than the chemists in Europe, the rage for handsome ones has been carried to a most lavish point. Elaborately hand-painted gilt glass cards, three or four feet square, are quite common in the best shops, being furnished gratis by the leading patent medicine and perfumery makers, at a cost to themselves oftentimes of two or three guineas each.

"In deciding upon the retail price of an article about to be introduced, too much attention cannot be given to the discounts which will have to be made to the different classes of buyers in the trade. There should always be a first abatement from the retail trade of one-third, for any quantity to one who buys to sell again, and to the same party a further discount of, say, ten per cent, when a whole gross is purchased—this last to be supplemented by an additional discount of ten or fifteen per cent, to the wholesale houses on five or ten gross lots. As the class of goods in question is essentially a monopoly, the proprietor has power to fix his prices as arbitrarily as he chooses, but he will consult his interest by making liberal discounts, selling for net cash only, and in no case, Confidentially or otherwise, giving any advantage to one buyer over another. A printed tariff to wholesale houses should he issued, and rigidly adhered to as to quantities, cash, and days allowed for payment. All changes in this tariff should be notified some

considerable time in advance of the period when the change will take place, so as to give wholesale dealers time to arrange advantageously, in case of their being either over-stocked or in short supply. These notices should be given simultaneously, that no one man may have any advantrge from early information of contemplated changes. Having experienced the desirability of this uniformity of dealing with the trade in specialties, the writer is disposed to lay great stress upon it. The proprietor of an article must obviously, in arranging his wholesale and retail prices, allow himself a handsome margin, the expense for publicity and otherwise, aside from the cost of manufacture, being likely to be so onerous. If, as is often the case, an article is got up by a chemist, in the midst of the ordinary routine of his shop, without adding anything for expense of labor, he should not, on that account, omit to include in his estimate the probable cost of bottling, packing, etc., as in all articles of extended sale, a separate organization and force becomes essential. The probable fluctuations in the ingredients of which the preparation is composed, should also be carefully taken into account, as the variation of a price once fixed upon a proprietary article is likely to be damaging. The heavy war tax upon spirits in the United States, a few years ago, (now reduced,) nearly ruined the smaller grade of patent medicine men there, and they were obliged to adopt prices in many cases fifty and one hundred per cent. higher, which resulted in placing their preparations quite out of the reach of men of moderate means. Coming to the actual work of introducing an article, it is better for persons of moderate means to canvas in the outset large country towns, than to attack the great cities. Should abundant means be at command, the metropolis had better be taken in hand first, as the country naturally sympathises in the demand for a preparation which has a metropolitan vogue, even where no local expenditure is made for publicity.

<sup>&</sup>quot;Whatever field is taken up in the outset, it should be thor-

oughly worked, and the article well made known there, before wasting time and scattering efforts in other quarters. No more common mistake is made by sanguine projectors of specialties than in endeavoring to grasp the whole body of the people at once. Any advertisement contracts made should be for cash, or nearly so. It is so easy to get out of one's depth in making contracts payable out of prospective profits. When an article is already launched, and has been favorably received, the extension of its advertisements with a certain amount of boldness is no longer so pure a risk.

"The question of newspaper advertising is so broad a one, that the limits of this article will hardly suffice for its treatment. Briefly, it must be quite clear that all feeble, cheap advertising, in the obscure columns of the papers, has but little effect. The shrewdest advertisers of the day adopt the most expensive methods, choosing the most costly localities in the principal journals. A few lines at several shillings a line, in a prominent part of a newspaper is a better investment than a lengthy advertisement in an obscure column at half the expense. Continuous advertising in every issue of a daily or weekly newspaper, is a great waste of money. If six advertisements on six successive days lead to an expenditure of ten pounds, it would be much more effective to insert one advertisement once a week at an expense of half the money. Small announcements persisted in, if appearing continuously, will undoubtedly, in time, produce a favorable result; but, for immediate sales, resort must be had to bold, and sometimes to lengthy announcements. A dignified phraseology should always be adhered to, but any novelty that can be secured in point of typographical display, is eminently desirable,

"It is very questionable if the paragraph notices of a facetious character, now somewhat in favor with advertisers in the leading dailies, are really effective. The locality chosen is the advantage, if there is one; but, obviously, the notion that the public are supposing they are absorbing the regular reading matter of the news-

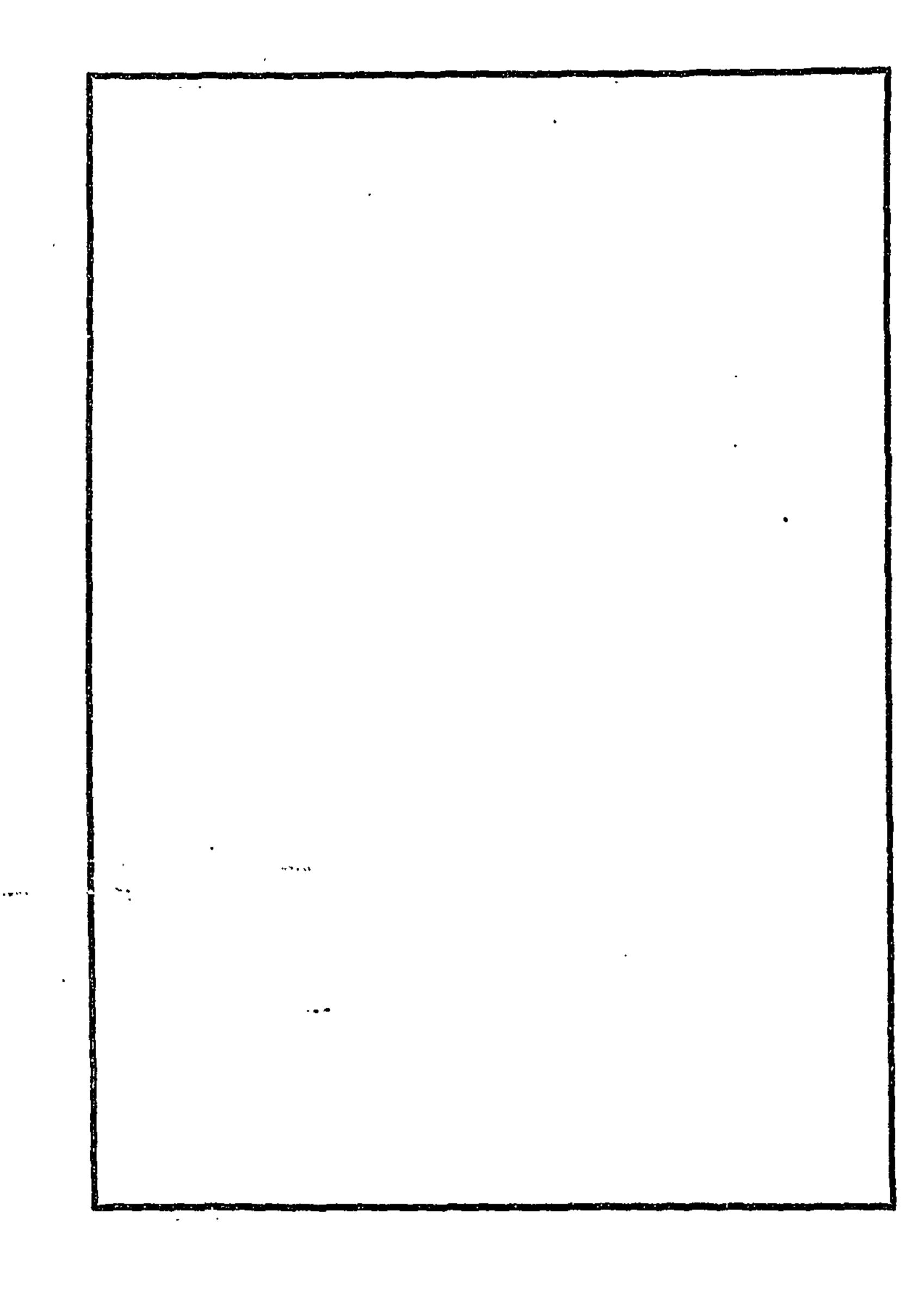
paper, is presuming too much on their credulity. Of all forms of advertising, none approaches the well established daily newspaper. Where there are several published in one town, it is better, in default of ability to grasp them all, to choose the best one for the article in hand, and go in liberally. Small advertising does not pay.

"When an article is being introduced, there should always be affixed to all advertisements the name of one or two shops in the town where it is kept on sale. This saves much disappointment on the part of intending buyers, who often apply at a dozen places without success, and ultimately give up their idea of obtaining it. "For sale by all chemists," is a very bad line to add to an advertisement of a new article. Nine out of every ten dealers will say, "We never heard of it before," and the tenth one will offer to procure it; while all (if in America) will suggest that "It's a new thing," "Don't know much about it yet," "We have something of our own of the same kind quite as good." All of these influences have to be fought against by the projector of something new, and even at the risk of making some shops jealous, it is much better to name one or two where the article can surely be obtained.

"Nothing is so successful as success. Once an article is well established, the chorus is unanimous in its favor from all the shop-keepers; during its struggling infancy, something seems to whisper to them to give it a kick.

"Previous to quitting the party "who never heard of it before," it may be well to direct his attention to the eminently modern plan of advertising to the trade, now so much in favor with the most intelligent body of advertisers. The last few years have witnessed the establishment of a most excellent series of class and trade journals in several countries—more especially in England—addressing themselves to readers of various professions and kinds of business. To all projectors of new specialties, this class of journals is invaluable, as well as to the proprietors of such estab-

... lished ones as it is desirable to keep alive in the minds of the trade. A great step in advance is made, if the trade can at once be thoroughly informed respecting a new article. In default of ability to inaugurate an extensive range of advertising to the public, a most important impression can be made by bold announcements in suitable class journals; and in conjunction with an elaborate programme of publicity, the columns of this branch of the press offer palpable advantages. These journals, although as yet in a successful infancy, are destined to occupy a greatly enlarged position and influence. The day is rapidly approaching, in fact has arrived, when the intelligent chemist must regularly peruse a periodical specially edited and published for himself and his confreres, in order to keep up with the advances made in the scientific branches of his profession, as well as to be thoroughly posted in its special trade intelligence. Obviously, these are among the earliest channels in which originators of specialties should communicate with the trade. beginning by at once making their articles known, by name at least, to the whole body."

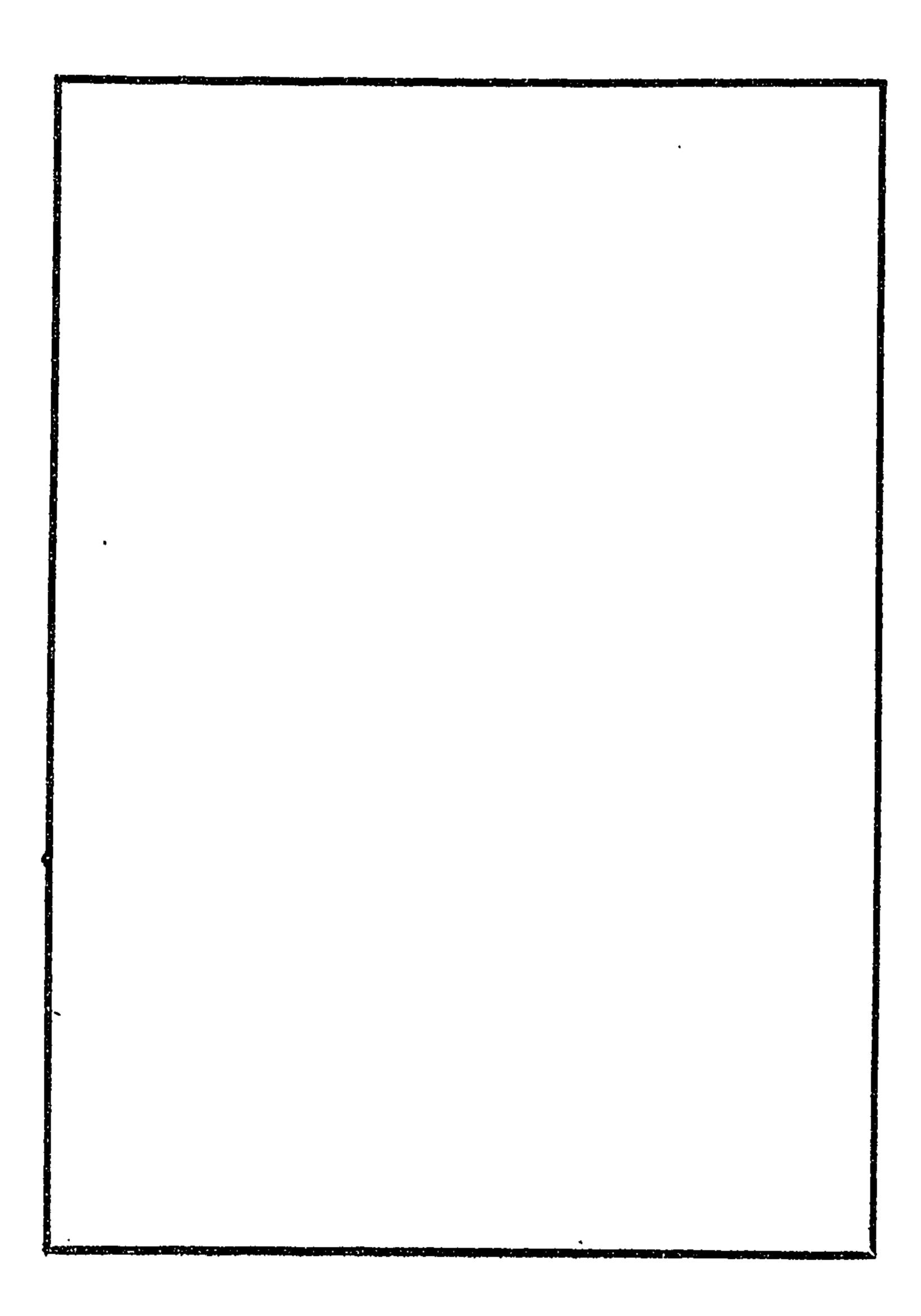


## FORMS AND INSTRUCTIONS

FOR

# Assignments, Grants, Livenses,

CONTRACTS, ETC.



## ASSIGNMENTS AND GRANTS.

An Assignment of a patent right is an instrument in writing, conveying either the whole interest in the patent, or an undivided part thereof.

A GRANT is an instrument in writing, conveying an exclusive territorial right under a patent.

The following is the text of the law with reference thereto, Approved July 8, 1870.

"Section 36. And be it further enacted, That every patent, or any interest therein, shall be assignable in law, by an instrument in writing, and the patentee, or his assign, or legal representative, may, in like manner, grant and convey an exclusive right, under his patent, to the whole or any specified part of the United States, and said assignment and grant, or conveyance, shall be void, as against any subsequent purchaser or mortgagee for a valuable consideration, without notice, unless it be recorded in the Patent Office within three months from the date thereof."

The following quoted paragraphs are from the Patent Office "Rules;"

- "A patent may be assigned, either as to the whole interest, or any undivided part thereof, by any instrument of writing. No particular form of words is necessary to constitute a valid assignment, nor need the instrument be sealed, witnessed, or acknowledged."
- "A patent will, upon request, issue directly to the assignee or assignees of the entire interest in any invention, or to the inventor and the assignee jointly, when an undivided part only of the entire interest has been conveyed."
- "In every case where a patent issues or reissues to an assignce, the assignment must be recorded at the Patent Office at

least five days before the issue of the Patent, and the specification must be sworn to by the inventor."

"The patentee may grant and convey an exclusive right under his patent, to the whole or any specified portion of the United States, by an instrument in writing."

"Every assignment or grant of an exclusive territorial right must be recorded in the Patent Office, within three months from the execution thereof; otherwise it will be void as against any subsequent purchaser or mortgagee for a valuable consideration without notice; but, if recorded after that time, it will protect the assignee or grantee against any such subsequent purchaser, whose assignment or grant is not then on record."

"The patentee may convey separate rights under his patent to make, or to use, or to sell his invention, or he may convey territorial or shop rights which are not exclusive. Such conveyances are mere licenses, and need not be recorded."

"The receipt of assignments is not generally acknowledged by the office. They will be recorded in their turn within a few days after their reception, and then transmitted to the persons entitled to them. A five cent revenue stamp is required for each sheet or piece of paper on which an assignment, grant, or license may be written."

The fees for recording assignments, grants, contracts, or any other paper which should be forwarded, with the papers for record, to the "Com'r of Patents, Washington, D. C." are as follows:

For recording an instrument of 100 words or under......\$1.00 '' over 300 and under 1000 words,2.00 '' over 1000 words..........3.00

In sending papers to the Patent Office for record, the papers and the money should be acompanied by a letter, stating that the enclosed papers are for record, and that the enclosed money is the fee for the same, and stating the address to which the papers are to be returned.

### FORMS.

NO. 1. ASSIGNMENT OF THE ENTIRE INTEREST, BEFORE THE ISSUE OF THE PATENT, (BY SOLE INVENTOR.)

In consideration of one dollar, to me paid by John J. Smith, of Hartford, Conn., I do hereby sell and assign to said John J. Smith, all my right, title and interest in and to a certain invention in plows, as fully set forth and described in the specification which I have prepared, (if the application has been made, say "and filed,") preparatory to obtaining letters patent of the United States therefor, and I do hereby authorize and request the Commissioner of Patents to issue the said letters patent to my said assignee, for the sole use and behoof of said assignee, and his legal representatives.



Witness my hand this 1st day of June, 1871.

CHARLES CHANDLER.

The words and figures in italics denote those which are to be changed to suit different cases, and the same is true of all the following forms in the book, except that where changes are to be made from the singular to the plural, or vice versa, italics will not be used.

NO. 2. ASSIGNMENT OF AN UNDIVIDED INTEREST, BEFORE ISSUE OF PATENT, (BY JOINT INVENTORS.)

In consideration of one dollar, to us paid by John J. Smith, of Hartford, Conn., we do hereby sell and assign to him one undivided half interest in and to a certain invention in plows, as fully set forth and described in the specification which we have prepared, (if application has been made say, "and filed,") preparatory to obtaining letters patent of the United States therefor. And we do hereby authorize and request the Commissioner of Patents to issue said letters patent to said assignce and ourselves jointly, for the sole use

and behoof of said assignce and ourselves, and his and our legal representatives.

DO REV. (A

Witness our hands this 2d day of June, 1871.

CHARLES CHANDLER,

DARIUS DOMBEY.

NO. 3. ASSIGNMENT OF ENTIRE (OR UNDIVIDED PARTIAL) INTEREST,
AFTER ISSUE OF PATENT, (BY SOLE INVENTOR.)

In consideration of five hundred dollars, to me paid by John J. Smith of Hartford Conn., I do hereby assign and sell to said John J. Smith, all my right, title and interest, (or one undivided hulf interest) in and to the letters patent of the United States, No. 41,806, for an improvement in plows, granted to me July 30, 1864, the same to be held and enjoyed by my said assignee to the full end of the term for which said patent is granted, as fully and entirely as the same would have been held and enjoyed by me, if this assignment had not been made.

Witness my hand this 10th day of June, 1871.

CHARLES CHANDLER.

NO. 4. ASSIGNMENT OF AN ENTIRE (OR UNDIVIDED) INTEREST IN PATENT AND EXTENSION THEREOF, (BY SOLE INVENTOR.)

In consideration of one thousand dollars to me paid by John J. Smith, of Hartford, Conn., I do hereby sell and assign to the said John J. Smith, all my right title and interest (or an undivided half interest) in and to the letters patent of the United States, No. 10,485, for an improvement in plows, granted to me May 16, 1865, the same to be held and enjoyed by the said John J. Smith, to the full end of the term for which said letters patent are granted, and for the term of any extension thereof, as fully and entirely as the

same would have been held and enjoyed by me, if this assignment had not been made.

D 50 REV. () TO BEV. ()

Witness my hand this 4th day of January, 1871.

CHARLES CHANDLER.

The clause with reference to extension can have no force, except with those patents granted prior to March 2, 1861, unless the law shall be changed hereafter, which is very unlikely, or unless extended by special act of Congress.

#### UNDIVIDED INTERESTS.

It is very important that all persons interested in patents should understand that the owner of an undivided interest in a patent, no matter how small, may, if he choose, carry on the manufacture and sale of the patented article to any extent, without any liability to account therefor to the owner or owners of the remainder of the patent; he may; also, grant all the licenses he pleases, and put all the money he gets therefor into his pocket, and keep it there, so that, unless the assignor desire just this state of things, a proper limiting clause, in the nature of a condition, putting it beyond the power of the assignee, or assignor, so to do, should be put into the assignment. Although the writer has not, in considerable practice as patent attorney, come upon an assignment drawn by any one else, which contained such a condition, he has never found an assignor who did not insist on having it, when the matter was explained to him. The next form, which is otherwise the same in substance as its immediate predecessor, No. 4, contains such a condition, printed in small capitals, which can readily be inserted in the same place in all the other forms.

#### NO. 5. SAME AS NO 4, WITH CONDITION.

In consideration of one thousand dollars to me paid by John J. Smith, of Hartford, Conn., I do hereby sell and assign to the said John J. Smith, one undivided half interest in and to the letters patent of the United States, No. 10,485, for an improvement in plows, granted to me May 16, 1865, the same to be held and enjoyed by the said John J. Smith to the full end of the term for which said letters patent are granted, and for the term of any extension thereof.

This assignment is made upon the following express con-DITION, WHICH FORMS AN INTEGRAL PART OF THE SAME, TO WHICH SAID CONDITION THE ASSIGNOR ASSENTS BY THE ACT OF SIGNING THIS INSTRUMENT, AND TO WHICH THE ASSIGNEE ASSENTS BY THE ACT OF ACCEPTING THE SAME, OR DOING ANY ACT UNDER AND BY VIRTUE OF ITS AUTHORITY, TO WIT: -- NEITHER THE ASSIGNOR NOR THE ASSIGNEE MENTIONED HEREIN HAVE ANY RIGHT, POWER OR LIBERTY TO MAKE, OR VEND TO OTHERS TO BE USED, THE ARTICLE (OR "PROCESS," "MA-CHINE," "COMPOUND," WHATEVER IT MAY BE) WHICH FORMS THE SUBJECT MATTER OF SAID PATENT, WITHOUT THAT HE SHALL ACCOUNT AND PAY OVER TO THE OTHER PARTY HERETO ONE HALF OF ALL THE PROFIT DERIVED FROM SUCH MAKING, USING, OR VENDING TO OTHERS TO BE USED, NOR SHALL EITHER OF SAID PARTIES HERETO HAVE ANY POWER TO MAKE ANY ASSIGNMENT, GRANT, LICENSE OR OTHER CON-VEYANCE WHATEVER HEREUNDER, EXCEPT THAT BOTH OF SAID PAR-TIES SHALL JOIN IN THE SAME IN WRITING.

50 50 REV. (3) STAMP. (1)

Witness my hand this 10th day of June, 1871.

CHARLES CHANDLER.

NO. 6. GRANT OF EXCLUSIVE TERRITORIAL RIGHT, (BY ASSIGNEES.)

In consideration of one thousand dollars to us paid by Wm. II. Dinsmore and James S. Sanborn, of Concord, New Hampshire, we do hereby assign, grant and convey to the said Wm. II. Dins.

more and James S. Sanborn, the exclusive right to make, use and vend within the State of Wisconsin, and in no other place or places, the improvement in plows, for which letters patent of the United States, dated August 25, 1867, were granted to Lemuel II. Harvey, and by said Harvey duly assigned to us, and recorded in the Patent Office, the same to be held and enjoyed by the said William II. Dinsmore and James S. Sanborn, as full and entirely as the same would have been held and enjoyed by us, if this grant had not been made.

5C. REV.

Witness our hands this 19th day of June, 1871.

CHARLES CHANDLER. HENRY H. HARRIS.

It is believed that a careful reading of the above forms will enable any fairly intelligent person to draw an assignment or grant to meet any particular case, taking the phraseology wholly from one form, or partly from one and partly from another, as the circumstances in hand dictate.

### LICENSES.

A license under a patent is an oral or written permit to m.ke, sell, or use a patented invention, conveying no interest in the patent itself, and it need not be recorded.

A license may be made by the owner of the entire, or an undivided interest in a patent, or by the owner of an exclusive territorial right. An owner of a license, which, by its terms, is assignable, can assign it to other parties at his pleasure. Licenses require a five cent revenue stamp upon each sheet or piece of paper upon which they are written. The following are forms of license:

NO. I. LICENSE-SHOP RIGHT, (BY PATENTEE.)

In consideration of fifty dollars paid me by Hart, Holbrook, & Company, of Albany, New York, I do hereby license and em-

power said firm to manufacture at a single foundry and machine shop in said Albany, and in no other place or places, the improvement in harrows, for which letters patent of the United States No. 71,846 were granted to me November 13, 1868, and to sell the machines so manufactured throughout the United States, to the full end of the term for which said letters patent are granted.

ey a company )5c. rev. 😝

Witness my hand this 22d day of June, 1871.

NOEL HOLCOMB.

## NO. 2. LICENSE—SHOP RIGHT—ASSIGNABLE AND LIMITED, (BY PATENTEES.)

In consideration of fifty dollars, we do hereby license Hiram A. Evarts, of Kingston, New York, or his assigns, to manufacture at a single foundry and machine shop, the improved seed sower, for which letters patent of the United States No. 74,560 were granted to us December 15, 1870, to the number of one hundred of such seed sowers in each calendar year, and no more, and to sell such seed sowers so made in the United States, to the full end of the term for which said letters patent are granted.

∮P5c. rev. 😭 П) БТАМР. (B الي والمستولية

Witness our hands this 24th day of June, 1871. HARLOW HUGGINS, JAMES E. JILLSON.

### NO. 3. LICENSE-NOT EXCLUSIVE-WITH CONTRACT FOR ROYALTY. (Taken from Patent Office Forms.)

This agreement, made the 12th day of September, 1868, between Morrison White, party of the first part, and the Uniontown Agricultural Works, party of the second part, witnesseth that whereas letters patent of the United States for an improvement in horse rakes were granted to the party of the first part, dated October 4, 1867; and whereas the party of the second part is desirous of manufacturing horse rakes containing said patented improvement; now, therefore, the parties have agreed as follows:

- I. The party of the first part hereby licenses and empowers the party of the second part to manufacture, subject to the conditions hereinafter named, at their factory in Uniontown, Maryland, and in no other place or places, to the end of the term for which said letters patent were granted, horse rakes containing the patented improvements, and to sell the same within the United States.
- II. The party of the second part agrees to make full and true returns to the party of the first part, under oath, upon the first days of July and January in each year, of all horse rakes containing the patented improvements manufactured by them.
- III. The party of the second part agrees to pay to the party of the first part five dollars, as a license fee upon every horse rake manufactured by said party of the second part, containing the patented improvements; provided that, if the said fee be paid upon the days provided herein for semi-annual returns, or within ten days thereafter, a discount of fifty per cent. shall be made from said fee for prompt payment.
- IV. Upon failure of the party of the second part to make returns, or to make payment of license fees, as herein provided, for thirty days after the days herein named, the party of the first part may terminate this license by serving a written notice upon the party of the second part; but the party of the second part shall not thereby be discharged from any liability to the party of the first part, for any license fees due at the time of the service of said notice.

In witness whereof, the parties above named (the said Union-town Agricultural Works, by its president) have hereunto set their hands this day and year first above written.



MORRISON WHITE, UNIONTOWN AGRICULTURAL WORKS, By JABEZ REYNOLDS, President. NO. 4. LICENSE—EXCLUSIVE—WITH CONTRACT FOR ROYALTY.

This agreement, made this 10th day of June, 1871, between Henry L. Harrison, of Hartford, Connecticut, party of the first part, and the Excelsior Iron Works, a corporate body under the laws of said state, located and doing business at New Britain, in said state, party of the second part, witnesseth—

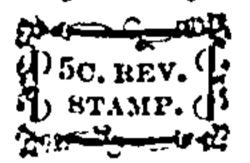
That whereas letters patent of the United States were, on the 29th day of January, 1871, granted to said party of the first part, for an improvement in stove hooks, which said patented article said party of the second part is desirous to make and sell; now, therefore, the parties have agreed as follows:

- I. The party of the first part hereby gives to the party of the second part, the exclusive right to manufacture and sell said patented improvements, to the end of the term of said patent, subject to the conditions hereinafter named.
- II. The party of the second part agrees to make full and true returns, on the first days of January, April, July and October in each year, of all of said patented stove hooks made by them in the three calendar months then last past, and if said party of the first part shall not be satisfied, in any respect, with any such return, then he shall have the right, either by himself or his attorney, to examine any and all of the books of account of said party of the second part, containing any items, charges, memoranda or information relating to the manufacture or sale of said patented stove hooks, and upon request made, said party of the second part shall produce all such books for said examination.
- III. The party of the second part agree to pay the party of the first part two cents as a license fee upon every one of said patented store hooks made by them, the whole of said license fee for each quarterly term of three months, as hereinbefore specified to be due and payable within fifteen days after the regular return day for that quarter. And said party of the second part agrees to pay to the party of the first part at least fifty dollars, as said license fee.

upon each of said quarterly terms, even though they should not make enough of said patented store hooks to amount to that sum at the regular royalty of two cents apiece.

IV. Upon failure of the party of the second part 10 make returns, or to make payment of license fees as herein provided, for thirty days after such returns or such payments are due respectively, then the party of the first part may terminate this license by serving a written notice to that effect upon the party of the second part; but said party of the second part shall not thereby be discharged from any liability to the party of the first part for any license fees due at the time of the service of said notice.

In witness whereof the above named parties (the said Excelsior Iron Works, by its President) have hereto set their hands this day and year first above written.



HENRY L. HARRISON.

Excelsion Iron Works.

By JOHN HARTSHORN, President.

It will be observed that under form No. 3, the licensee is not bound to make a single one of the patented articles, and if he does not, the patentee derives no profit from the license. It is not an uncommon thing for unscrupulous manufacturers, with whose business a new invention would interfere, to get a license in substance like form No. 3, except to make it exclusive, and perhaps leave out the vacating clause at the end, and then to either never make a single one of the patented articles, or to make so few as to make it really amount to the same thing. The license in form No. 4 is the one that is recommended, for under it the licensee is bound to pay a certain sum, as royalty, whether he make a single one of the articles or not.

## NO. 5. TRANSFER OF TRADE MARK. (From Patent Office Forms.)

We, Jotham Mills and Abner Clark, of Keokuk, Iowa, partners under the firm name of Mills & Clark, in consideration of five hundred dollars, to us paid by Jarvis Case, of the same place. do hereby sell, assign, and transfer to the said Jarvis Case and his assigns the exclusive right to use, in the manufacture of stoves, a certain trade mark for stoves, deposited by us in the United States Patent Office, and recorded therein July 15, 1870; the same to be held, enjoyed and used by the said Jarvis Case as fully and entirely as the same would have been held and enjoyed by us, if this grant had not been made.

Witness our hands this 20th day of July, 1870. JOTHAM MILLS, ABNER CLARK.

## FORM FOR ARTICLES OF ASSOCIATION

(OF THE

WILLIA WS PATENT STEAM GOVERNOR MANUFACTURING COMPANY.)

The subscribers hereby associate themselves as a body corporate and politic, under and in pursuance of the provisions of the statute laws of the State of *Connecticut*, authorizing and regulating the formation of joint stock corporations, and they adopt the following general articles of association and agreement:

- I. The name of the corporation shall be the Williams Patent Steam Governor Manufacturing Company, and its capital stock shall be one hundred thousand dollars, to be divided into shares of twenty-five dollars each.
- II. The purpose for which this said corporation is to be organized is to manufacture and sell the steam governor covered by letters patent of the United States, dated February 29, 1871, and numbered 102,232, issued to Chauncey Williams, to sell rights

under said letters patent, and to buy and sell, and deal generally in such real and personal estate as may be necessary and convenient in the successful prosecution of said business.

- III. The principal place of business of said corporation shall be at *Hartford*, in said state.
- IV. Each subscriber hereto agrees to take the number of shares in the capital stock of said corporation set against his name, to be paid for by installments, as called for by the directors hereafter to be appointed.
- V. It is mutually understood and agreed by and between the subscribers hereto, that said Chauncey Williams, or his legal representatives, may subscribe hereto for that number of shares, whose par value amounts to twenty-five thousand dollars, and that when said letters patent are fully assigned to said corporation, said Williams, and his legal representatives, shall be freed from any further liability on account thereof, which said allowance, together with ten thousand dollars in cash, which it is agreed and understood shall be paid to said Williams before said corporation shall commence to prosecute said business, shall be in full payment for said letters patent, and the invention covered thereby, which shall then become the full and exclusive property of said corporation.

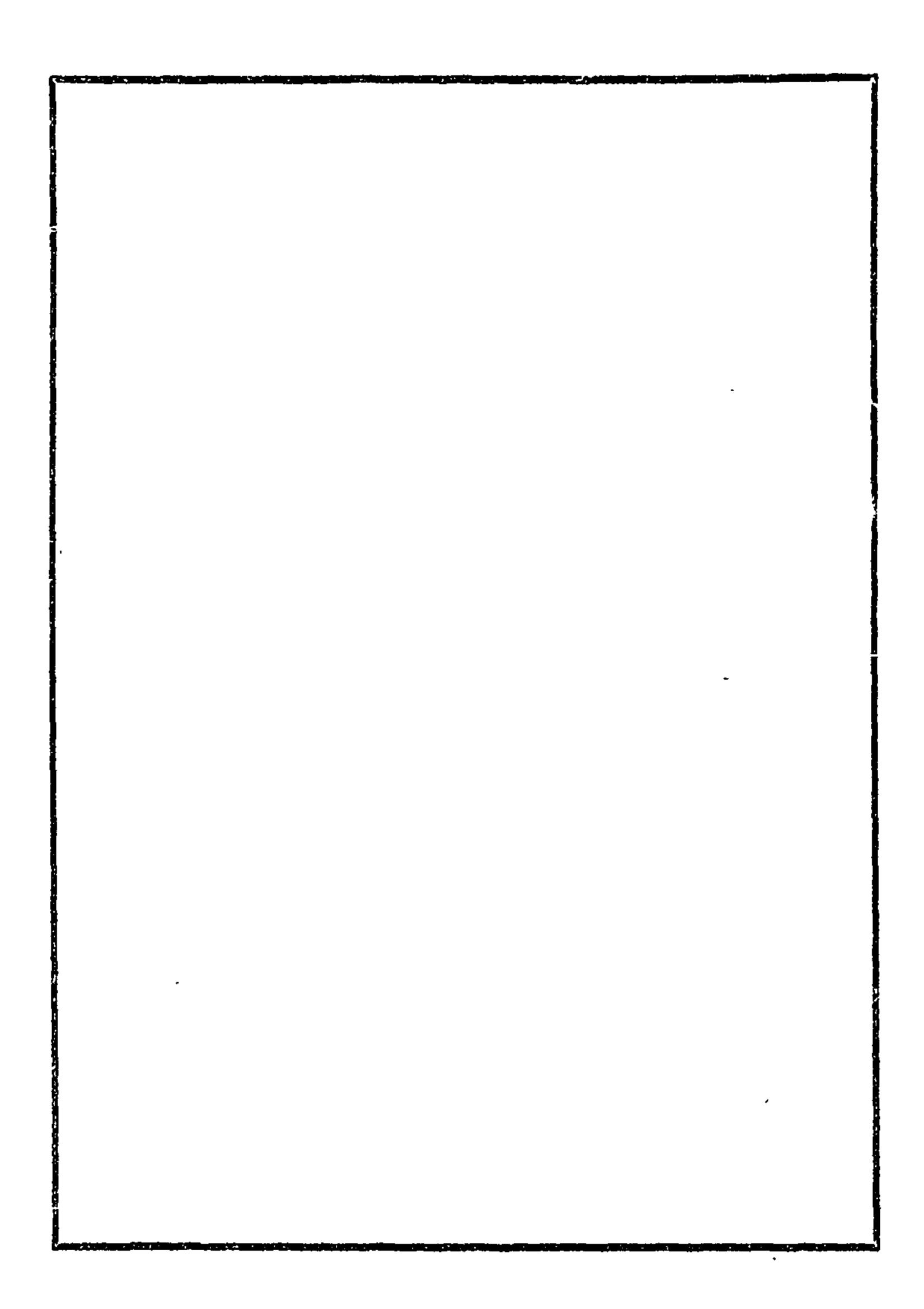
Dated Hartford, Conn., July 4th, 1871.

NAMES. N

NO. OF SHARES.

PAR VALUE.

Upon such a basis as this, the inventor can proceed, till he secures the requisite subscribers, after which it is advisable to follow the advice of some local attorney, as to giving notice of the first meeting of the company, etc.



## FORMS

FOR

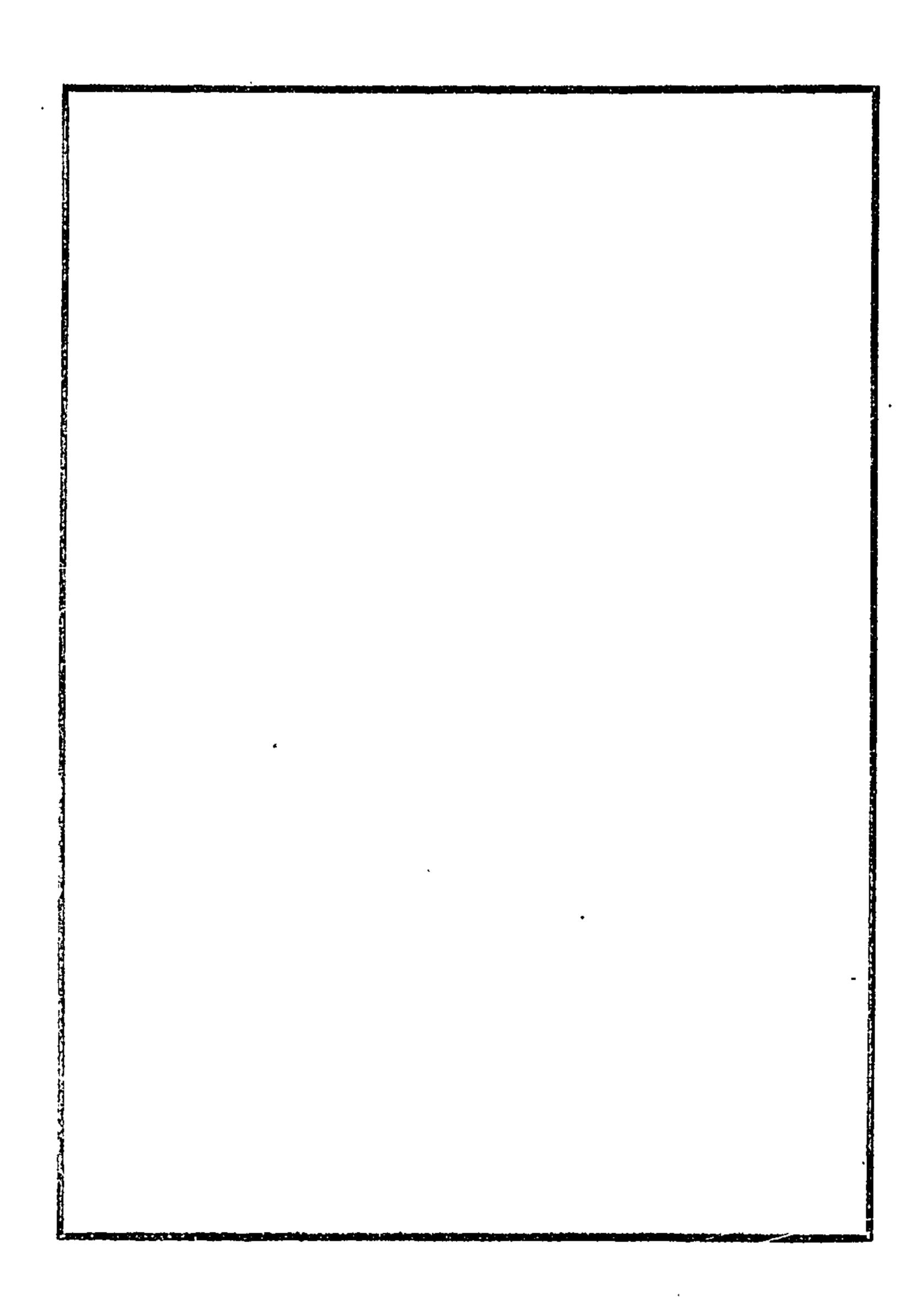
## POWERS OF ATTORNEY

TO

SELL RIGHTS, ETC.

WITH

INSTRUCTIONS, ETC.



## FORMS FOR POWER OF ATTORNEY.

## NO. 1. POWER OF ATTORNEY. (By the Patentee.)

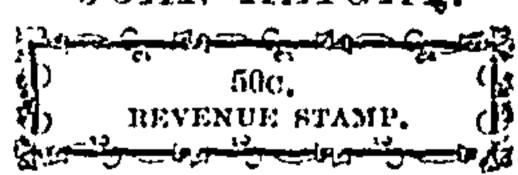
I, John Haight, of Hartford, Connecticut, patentee and owner of letters patent of the United States, No. 100,001, for an improvement in Mouse Traps, dated May 10, 1870, do hereby appoint Hiram Handsome, of said Hartford, my attorney, with full power to make assignments, grants, or licenses of any kind, under said patent, with full power to sign my name to all such instruments, and to receive and receipt for all considerations received in exchange for any of said rights, but with no power to bind me in any manner further than to make binding and legal all such assignments, grants and licenses.

This power is in force till a revocation in writing shall be duly recorded upon the records of the United States Patent Office, where this power of attorney will be found duly recorded.

Witness my hand this 14th day of June, A. D. 1871.

JOHN HAIGHT.

Witnesses, Charles II, Hawser, Henry C. Cable.



It will be observed that the foregoing power gives to the attorney, while the power is unrevoked, as full power over the patent as the owner has, and makes no provision for ensuring that the owner shall know of the terms of each sale, or for the safety of the funds received. Although it is a common form, it cannot be recommended. The following is the form that is recommended:

## NO. 2. POWER OF ATTORNEY, (WITH RESTRICTIONS.) (By the Assignees of entire right.)

We, William M. Noble and Hugh R. Ransom, of Hartford, Cannecticut, assignees and owners of the entire right in and to letters patent of the United States No. 100,002, for an improvement in Garden Hoes, dated May 10, 1870, do hereby appoint Harvey Handy, of said Hartford, our attorney, with full power to make assignments, grants or licenses of any kind, under said patent, with full power to sign our names to all such instruments, and to receive and receipt for, in our name, all considerations received in exchange for any of said rights, but with no power to bind us, or either of us, further than to make binding and legal all such assignments, grants, and licenses, he to exercise all power herein conferred under the following conditions, without which no act of his under this authority shall be valid.

I. He shall sell at not less than the following prices: For the whole patent, \$20,000.

For any state, such part of \$20,000 as the population of the state in question bears ratio to the whole population of the United States, this result to be doubled to find the price for said state.

For any county, such part of the price for the state, as determined by the foregoing directions, as the population of the said county bears ratio to the population of the state, this result to be doubled to find the value of said county.

For any town, such part of the price of the county in which it is situated, determined as hereinbefore directed, as the population of the town bears ratio to the population of the county, this result to be doubled to find the value of said town.

All sales of licenses, and all territorial sales at less than the prices given above, to be subject to our approval by letter or telegram.

II. All payments for rights thus sold shall be made either in cash wholly, or in not less than one half cash, and one half in good

promissory notes, to mature within six months from day of sale, and either signed or endorsed by a person or persons of ample pecuniary responsibility. All such cash shall be deposited by the payer thereof with the nearest bank, or responsible private banker, payable to the joint order of our said attorney and ourselves, and all such promissory notes shall be made in three notes of equal amount, payable to the joint order of ourselves and our said attorney, and delivered to him. Any payment aforesaid in anywise deviating from these provisions, to be subject to our approval by letter or telegram.

This power shall remain in force till a written revocation thereof shall be recorded on the records of the Patent Office of the United States, where this power will be found recorded.

Witness our hands this 10th day of June, A. D. 1871.
Witnesses, WILLIAM M. NOBLE,
Samuel S. Simmons, HUGII R. RANSOM.
Thomas T. Tompkins.



The reader is, probably, not artless enough to need the suggestion that it is well to put the stated price in the power high enough to allow the agent to fall sensibly therefrom, and yet get a fair price. There is nothing that will incite a person to buy an article so much as to think he is getting it much below its real value.

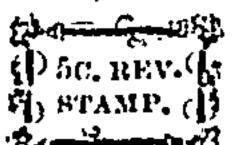
## NO. 3. PRIVATE AGREEMENT TO ACCOMPANY POWER OF ATTORNEY,

This agreement made this 10th day of June, 1871, between William M. Noble and Hugh R. Ransom, party of the first part, and Harvey Handy, party of the second part, all of Hartford, Ct., Witnesseth,

I. That the party of the second part agrees to use his best endeavors to sell rights under letters patent No. 100,002, dated May 10, 1871, for the party of the first part, under the terms and conditions of a power of attorney of even date herewith, from the party of the first part to the party of the second part, such endeavors to continue until said power of attorney is revoked, or until the party of the second part notifies the party of the first part, in writing, that he no longer wishes to be bound by this agreement.

II. The party of the first part agrees to pay to the party of the second part one third part of all the proceeds from said sales, as remuneration for his services in this behalf, and this remuneration shall be due and payable from cash received, as soon as deposited as provided in said power of attorney, and from promissory notes received, as soon as the same are delivered to the party of the second part, the party of the second part to retain as his property one of the three said equal promissory notes, and to immediately forward the other two to party of the first part. This allowance to be in full of all charges whatsoever, in this behalf, against party of the first part, and said party of the second part is to bear his own expenses, of whatever nature.

In witness whereof the said parties have hereto set their hands this 10th day of June, A. D. 1871.



Witnesses, WILLIAM M. NOBIA Sumuel S. Simmons, Stramp. (1) 5c. Rev. (2) 11UGII R. RANSOM, WILLIAM M. NOBLE, Thos. T. Tompkins. Reserved HARVEY HANDY.

Both parties should have one of these agreements, which should be made in duplicate for that purpose; of course, this agreement is for nothing but private use, and is not to be shown generally.

#### NO. 4. REVOCATION OF POWER OF ATTORNEY.

Having, on the 10th day of June, 1871, appointed Harrey Handy, of Hartford, Conn., our attorney to sell rights under letters patent No. 100,002; dated May 10, 1871, for us, we do hereby, for full and sufficient reasons, revoke said power of attorney to him, and declare his authority to act for us in any manner to be at an end.

Witness our hands this 4th day of July, A. D. 1871, at Hartford, Conn.

Witnesses,

Sam. S. Simmons,

Thos. T. Tompkins.

WM. M. NOBLE, HUGHR. RANSOM.

#### NO. 5. POWER OF ATTORNEY TO SELL RIGHTS, C. O. D.

I, Charles Cautious, of Hartford, Conn., owner of letters patent of the United States No. 102,204, dated February 29th, 1871, hereby authorize Hiram Handy, of said Hartford, to sell assignments, grants and licenses under said patent, such sales to be approved by me before becoming valid, upon which approval in each case, I will send the necessary assignment, grant or license, duly executed by me, by express to said Handy, accompanied with instructions to the carrier to allow said Handy, and the buyer or buyers of any such right, to examine such conveyance, and upon delivery of the same, to collect for return to me such money, notes, or articles as I am to receive in consideration of such sale.

Şigned and scaled by me, this 31st day of June, A. D. 1871.

But the stamp.

All powers of attorney to sell rights, and all revocations thereof, should be recorded at the Patent Office, so that buyers may

have full notice of a revocation, and be protected thereagainst. Notwithstanding the provision in the power of attorney that the attorney shall only sell for cash and notes, it is well to agree verbally that he may sell for real estate, subject, of course, to approval by letter or telegram, and when this is done, the deed for the same can be made to the joint names of the owner, or owners, of the patent and the attorney, and the land can afterward be divided, if not satisfactorily sold for eash, allowing the attorney one-third, as in other cases. If articles of personal property, as produce, horses, diamonds, etc., are offered in exchange for rights, it is best to take them, and then sell them for eash.

## MORTGAGE OF PATENTS.

Although the patent law does not expressly provide for mortgage of patents, it plainly indicates that such mortgages can be made, for the last part of section 36, Act of July 8, 1870, reads.

"— and said assignment, grant, or conveyance shall be void, as against any subsequent purchaser or mortgugee, for a valuable consideration," etc., etc.

This may sometimes avail as a security whereon to borrow money, and the following is a form:

#### NO. 1. FORM FOR MORTGAGE OF PATENT.

In consideration of five hundred dollars, to me paid by Chauncey C. Colton, of Canton, Connecticut, I do hereby assign and mortgage to said Chauncey C. Colton, all my right, title and interest in and to a certain invention in rakes, as fully set forth and described in letters patent of the United States No. 100.003, dated

January 29, 1871, of which invention and letters patent I am sole owner.

The condition of this assignment is such that whereas, I am justly indebted to said *Colton* in the sum of *five hundred* dollars, as evidenced by my promissory note of even date herewith, payable to said *Colton*, or order, *one year* from date, with interest; now, if said note shall be well and truly paid according to its tenor, then this assignment and mortgage shall be null and void; otherwise to be of full force and effect.

In witness whereof I hereto set my hand and seal this 10th day of June, 1871.

Witnesses,

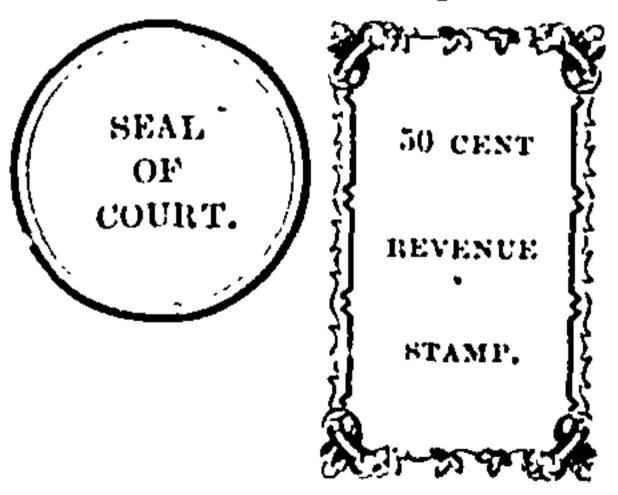
ABRAM ANDERSON,



Barton B. Brown, Charles C. Colter.

State of Connecticut,) county of Hartford, 5 ss. Hartford, June 10th, 1871.

Then personally appeared before me, the subscribing authority, Abrum Anderson, signer and scaler of the foregoing instrument, and acknowledged the same to be his free act and deed.

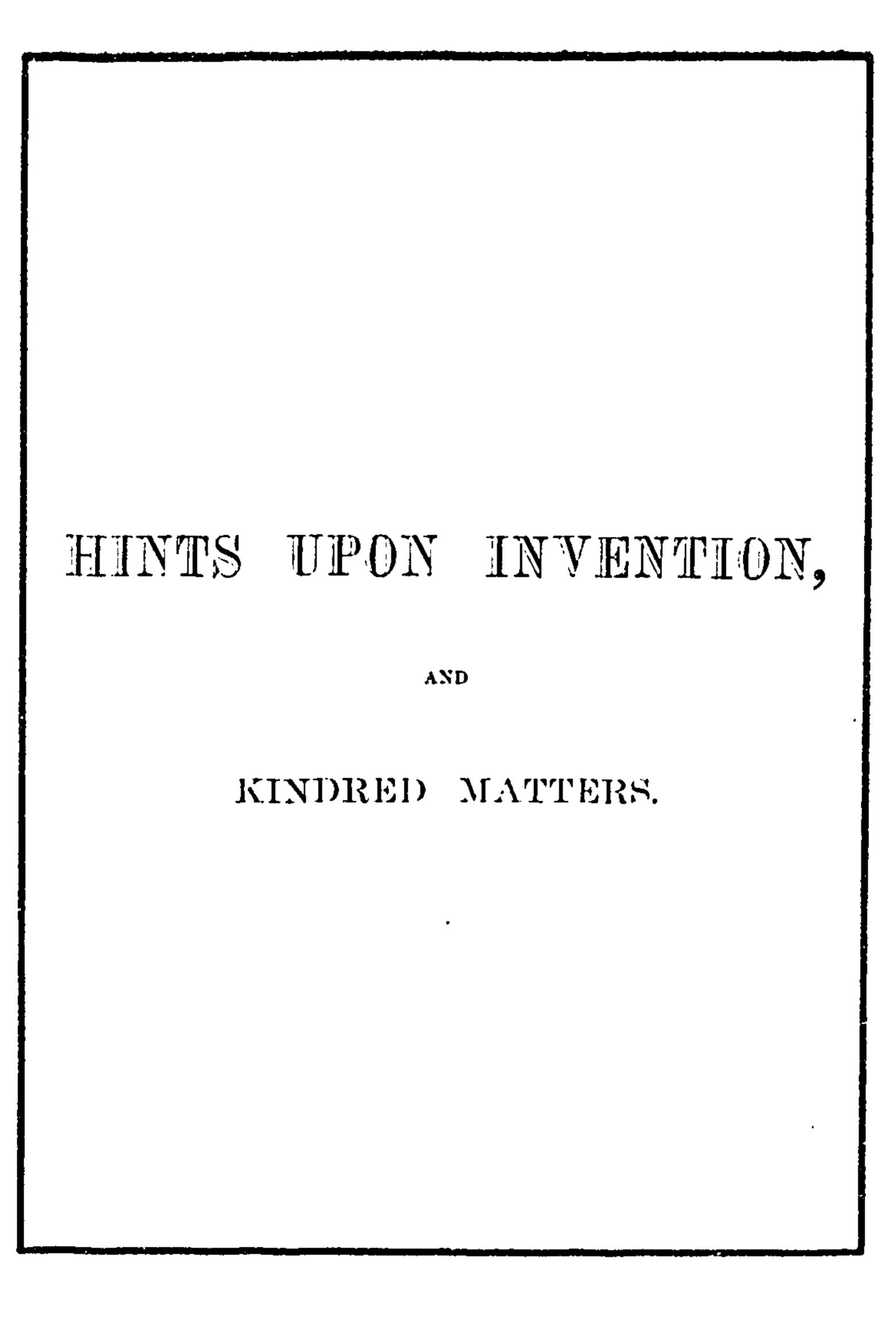


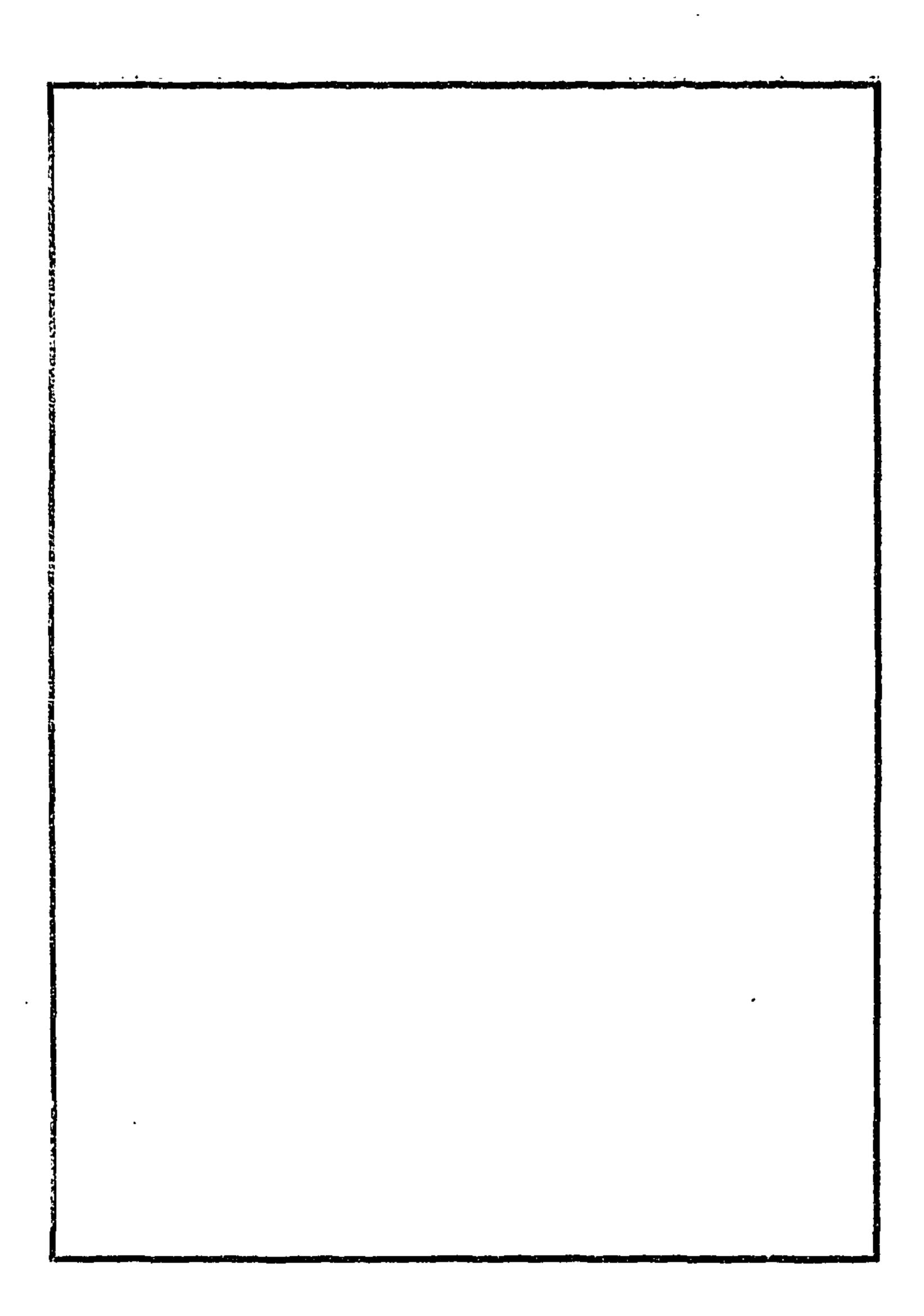
DARIUS D. DERBY, Clerk of the Saperior Court for said County.

Since that an assignment of a patent needs not to be sealed, witnessed nor acknowledged, perhaps the same formalities can be dispensed with in a mortgage, but as such a mortgage can probably be foreclosed in a state court, if not put within the jurisdiction of a

federal court, by matters extrinsic from the patent law, it is safest to make such a mortgage conform to the mortgage laws of the state within which the mortgage is executed, and the laws of most, if not all the states require that a mortgage, shall be sealed, witnessed and acknowledged. The form of witnessing and acknowledgement given above, is the proper one for the state of Connecticut. In executing a mortgage in another state, the mortgage should conform, in these particulars, to the local law, which does not, however, vary much in the different states.

An acknowledgement before a Justice of the Peace, or a Notary Public, or other officer authorized to take acknowledgments, will be valid, but it is better to acknowledge before the Clerk of a court of record, for then his signature and seal will not generally need any further authentication for any purpose, while that of a justice, notary, or other officer, may. These mortgages require revenue stamps to the extent of fifty cents for every five hundred dollars of consideration, or fractional part thereof; thus, a mortgage for \$2,600 dollars would require \$3.00 in stamps, five fifty cent stamps for the first \$2,500, and fifty cents for \$100 in excess thereof.





## HOW TO INVENT.

It is beyond the scope of this work literally to teach how to invent: it is beyond the scope, or power, of any work to do this. No mere words can endow a brain with the subtle power of evolving from its inner self positive intellectual creations.

If this power could be imparted and conveyed by words, invention would soon cease to attract unusual attention, or to have any extraordinary money value; for, then, the science of invention would be taught in the schools, would be formulated in the books, and when an invention should be found needful, the person needing it would simply consult such books, or counsel with the professor of the science, and, *presto*, the required article would vault, full grown, upon the scene.

Invention, like poetry, sculpture and painting, is a gift, an endowment of nature, often rising to the height of genius. Like all other gifts, it can be cultivated and strengthened by exercise, till the acquired power as little resembles the original crude gift, as the oak, which has breasted a thousand storms, does the acorn from which it originally sprung.

This gift is, probably, the possession, in a greater or less degree, of all human beings of sound mind, nor does it seem to require inventive capacity of the highest order to produce important inventions. More than one invention, which has made its originator rich, famous, and all but immortal, has been the product of minds that lay no claim to kinship with genius. That quality of mind and character, which led Charles Goodyear to pursue for years, the *ignis fatuus* of hard rubber, till in a happy moment he stumbled upon the coveted secret, can hardly be called genius. Peter Cooper is well known as a successful inventor; he is not,

however, it is believed, ranked as a genius. That inventors are sometimes geniuses, it is not necessary to say. The names of such as Whitney, Ericsson and Blanchard are too familiar. Still, it is true that most men and women can become inventors of that which will net them wealth, if not fame, by the aid of Attention and Perseverance.

ATTENTION, constant, careful and thoughtful attention to what is going on in the world about one, will soon enable him to discover many little gaps which it is needful to fill with an invention, some small practical improvement, it may be, which, if it can be cheaply made, and effective in operation, will fill a general want, and thus command an extensive sale.

Having thus, by the aid of attention, discovered where an invention is needed, steady Perseverance in holding the matter in mind, all the while intently striving to devise a contrivance to fill the need, will, sooner or later, result in making the desired invention. The inventor, gifted by nature with a genius for his art, has, prominent among all his other powers, that of projecting before his mind's eye, upon an invisible background of imagination, a picture bold and sharp, of the offspring of his brain. But for all this, no one need be discouraged, if he spoils scores of fair sheets of paper with his sketches, and dozens of shapely blocks of wood with his knife and gimlet, before he demonstrates to his own satisfaction, that his invention will work.

## PRINCIPAL REQUISITES OF AN INVENTION.

IT MUST WORK.—Upon this point of the practical working of a new device, an inventor can hardly be too severe or critical with himself—he must not give over his efforts till he is sure, beyond a doubt, that his invention will practically supply the want for which he has designed it, irrespective of any of those little allowances that inventors are apt to make for these children of

their brain. There may be cases where an invention will be pecuniarily successful, when, though it may not work perfectly, it is yet the best thing so far found for the purpose for which it is designed. This is, obviously, a poor dependence, for it will probably be comparatively easy for some future inventor to perfect the incomplete invention, and thus destroy the first inventor's prospects.

IT MUST BE AS SIMPLE AS POSSIBLE.—There are many people, among them some inventors, who seem to think that a complicated arrangement of wheels and levers is the thing to be desired in a new invention. A greater mistake was never made; to attain the utmost simplicity is the test of genius in invention, and a prime desideratum. Simplicity in an article cheapens the cost of its production, and makes it a formidable competitor for its rivals. The difference of a cent or two in the first cost of an article often determines its success in the market.

Simplicity also tends to make an article grow in favor with those who use it; it is the more easily understood, and less liable to breakage.

#### SMALL INVENTIONS.

He who aspires to be ranked as a great inventor may, perhaps, best apply himself to the production of some complicate mechanism, which shall take rank beside the steam engine, the solar engine, Blanchard's lathe for irregular forms, and the like, but those who will be satisfied with money returns may safely confine themselves to small inventions, which remedy some defect in some contrivance already in use, or supply some domestic, business or agricultural want.

Good toys, well pushed, are sure to prove remunerative; the return ball is a favorite instance. Househould articles have the most extensive market of anything; immense fortunes are, obviously, being made from the fruit jars now so common. Small

articles require but little capital for their manufacture and introduction, while complicate and costly machines can only be successfully handled by parties of large means.

## INVENTION AS A TRADE.

No one should make invention the main business of his life, his reliance for a livelihood, till he is possessed of so much of this world's goods, that he will not suffer, if he never realizes a dollar from his inventions. Otherwise he will be very likely to speedily have his face hard down upon the grindstone, which has for ages ground the faces of the poor, but, as yet, gives no sign of diminution in the speed of its revolution, or of wearing away by attrition. Let him devote every evening in the year, if he will, to invention, and ponder upon it at every spare moment in the day, but let him not relax his industry in his regular occupation, till he is in such circumstances that it matters but little whether he ever toils. The writer has in mind, in saying this, two men whom he bas known, both of them gifted with considerable power of invention, men of many admirable qualities of character, good mechanics, whose services are always in demand, and whe are capable of earning, with but ordinary industry, more than enough to support themselves and their families, in ease and comfort, but who are continually at their wits' end to pay their rent, and to procure but the commonest necessaries of life; all because they will constantly neglect their regular work, to give form and substance to the creations of their brains. Not only does the course they pursue make them exceedingly uncomfortable in the mere matter of living, but it effectually deprives them of the chance of ever accumulating the small amount of funds necessary to perfect the smallest invention, and introduce it to the public notice.

#### CHEAP AND EFFICIENT PROTEC-TION.

In Mrs. Glass' Cook Book, under the head of "How to cook a Hare," the primary direction is, "First catch your hare." The inventor having caught his hare, in that he has made his invention, will next naturally proceed to cook it, that is, to realize some good from it. The first step in this direction is to secure protection, and a most advisable preliminary move is to assemble three or four intelligent and reliable friends, explain to them the model or drawing of the newly invented device, and then have them all sign a paper substantially like the following:

" Hartford, Conn., January 2d, 1871.

"John Smith has this day explained to us, so that we fully understand the same, the model (or drawing) of a Washing Machine that he claims to have invented.

JAMES JONES, CHARLES BROWN, HENRY ROBINSON."

This paper should be carefully kept, for in the future it may prove of great value in establishing the inventor's priority, in point of time, over some competitor. This proceeding will be found especially valuable, if any considerable time is allowed to elapse after the invention is made, before a patent is applied for.

The patent law allows an invention to go into public use and sale for two years before application for a patent, but it is probably never advisable to take advantage of this privilege, unless forced to it by necessity. It is better to keep the invention secret till the funds for procuring a patent can be acquired in some other way.

#### ABOUT SOLICITORS.

A few words about professional solicitors of patents may not be inappropriate, for it is advisable for almost all persons to avail themselves of the services of a faithful solicitor, in such securing patents.

In America, the practice of soliciting letters patent for inventions, has been, and is being largely carried on by unprofessional persons. Men who have neither paid carnest and persevering attention to the mechanic arts, nor have mastered the details of the legal profession, have deemed themselves fully competent to undertake this delicate and difficult work, which, beyond question, demands a thorough knowledge of all mechanical and chemical terms and processes in general use, a fair knowledge of the law in general, and an accurate knowledge of the patent law in particular.

This evil had become so aggravated, as to cause the Commissioner of Patents, Hon. S. S. Fisher, in his annual report for 1869, to take notice of it, as will be seen by the following

#### **EXTRACT:**

"Where establishments are organized for the purpose of procuring patents, they are apt to become more solicitous about the number than the quality of those which they obtain. This tendency is aggravated by those who solicit patents upon contingent fees, or who, without special training or qualifications, adopt this business as an incident to a claim agency, and press for patents as they press for back pay and pensions. Such men are often more desirous of obtaining a patent of any kind, and by any means, than they are of obtaining one which shall be of any value to their clients. Inventors are often poor, uneducated, and lacking in legal knowledge. They desire a cheap solicitor, and do not know how to choose a good one. They are pleased with the parchment and the seal, and are not themselves able to judge of the scope or value of the grant, Honest and skillful solicitors, with a thorough knowledge of the practice of the office, and of patent law, and who are able and willing to advise their clients as to the exact value of the patents which they can obtain for them, may be of much service to inventors. There are many such, but those who care for nothing but to give them something called a patent, that they may secure their own fee, have in too many instances proved a curse. To get rid of their client and of trouble, they have sometimes been content to take less than he was entitled to, while in many cases they have, with much self laudation, presented him with the shadow, when the substance was beyond his reach."

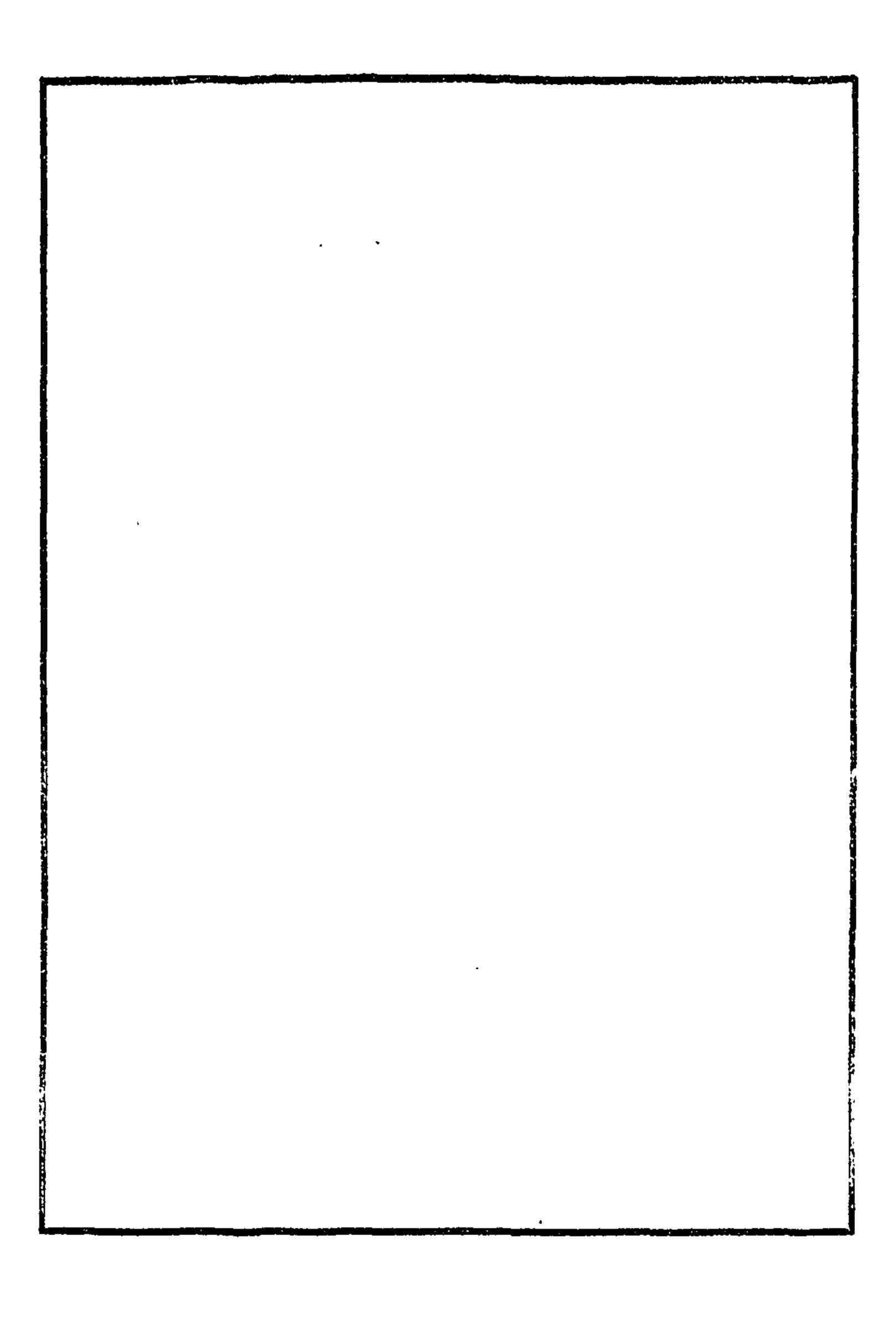
The following is from the Patent Office "Rules and Regulations" on this subject:

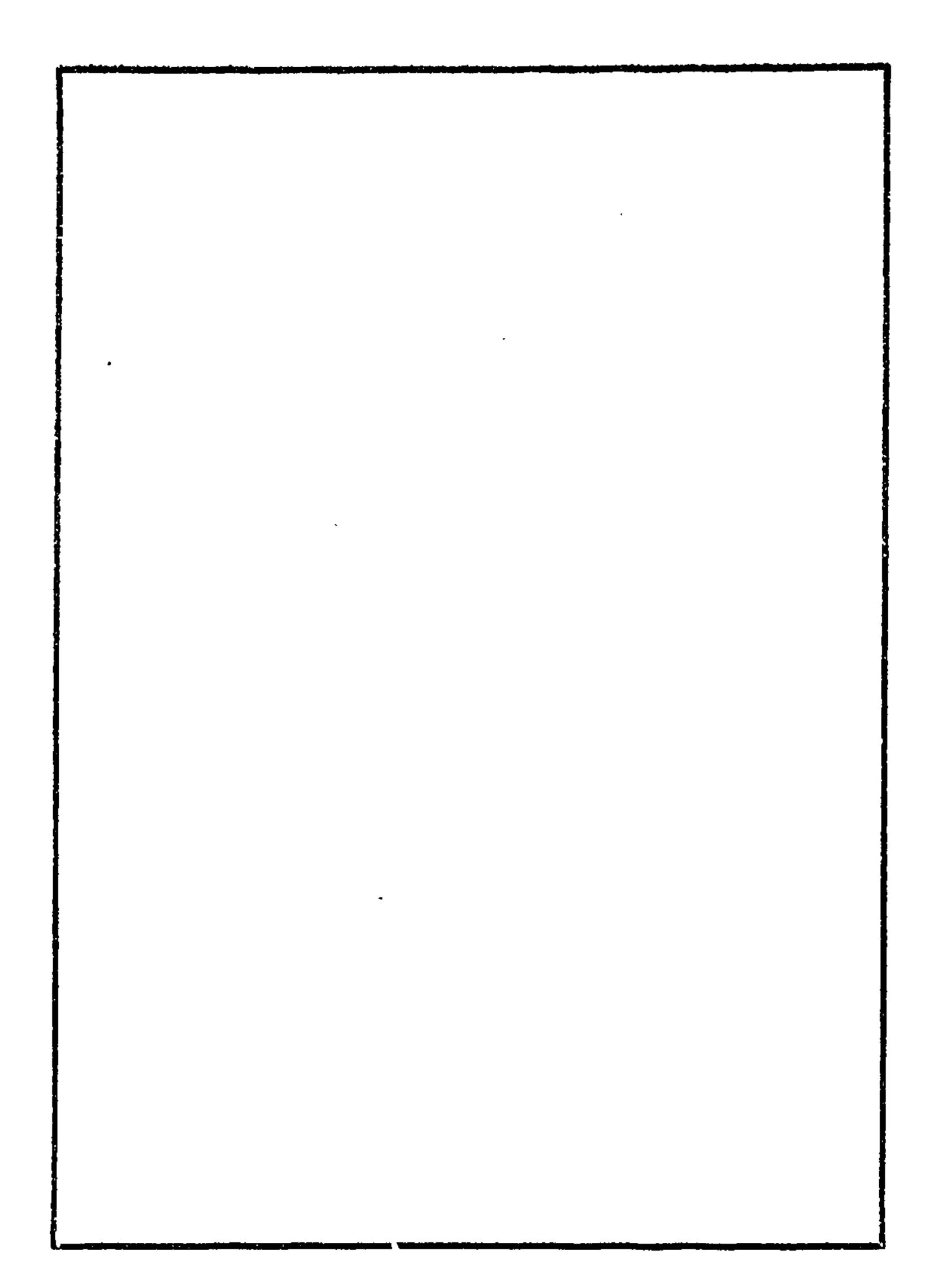
"Any person of intelligence and good moral character may appear as the attorney in fact, or agent of an applicant, upon filing a proper power of attorney. As the value of patents depends largely upon the careful preparation of the specification and claims, the assistance of competent counsel will, in most cases, be of advantage to the applicant, but the value of their services will be proportioned to their skill and honesty. So many persons have entered this profession of late years without experience, that too much care cannot be exercised in the selection of a competent man. The office cannot assume responsibility for the acts of attorneys,

nor can it assist applicants in making a selection. It will, however, be a safe rule to distrust those who boast of the possession of special and peculiar facilities in the office, for procuring patents in a shorter time, or with more extended claims than others."

From which it is very easy to draw the following

Moral.—In selecting a solicitor, find one who has had some special training for his business, and whose integrity is to be relied upon.



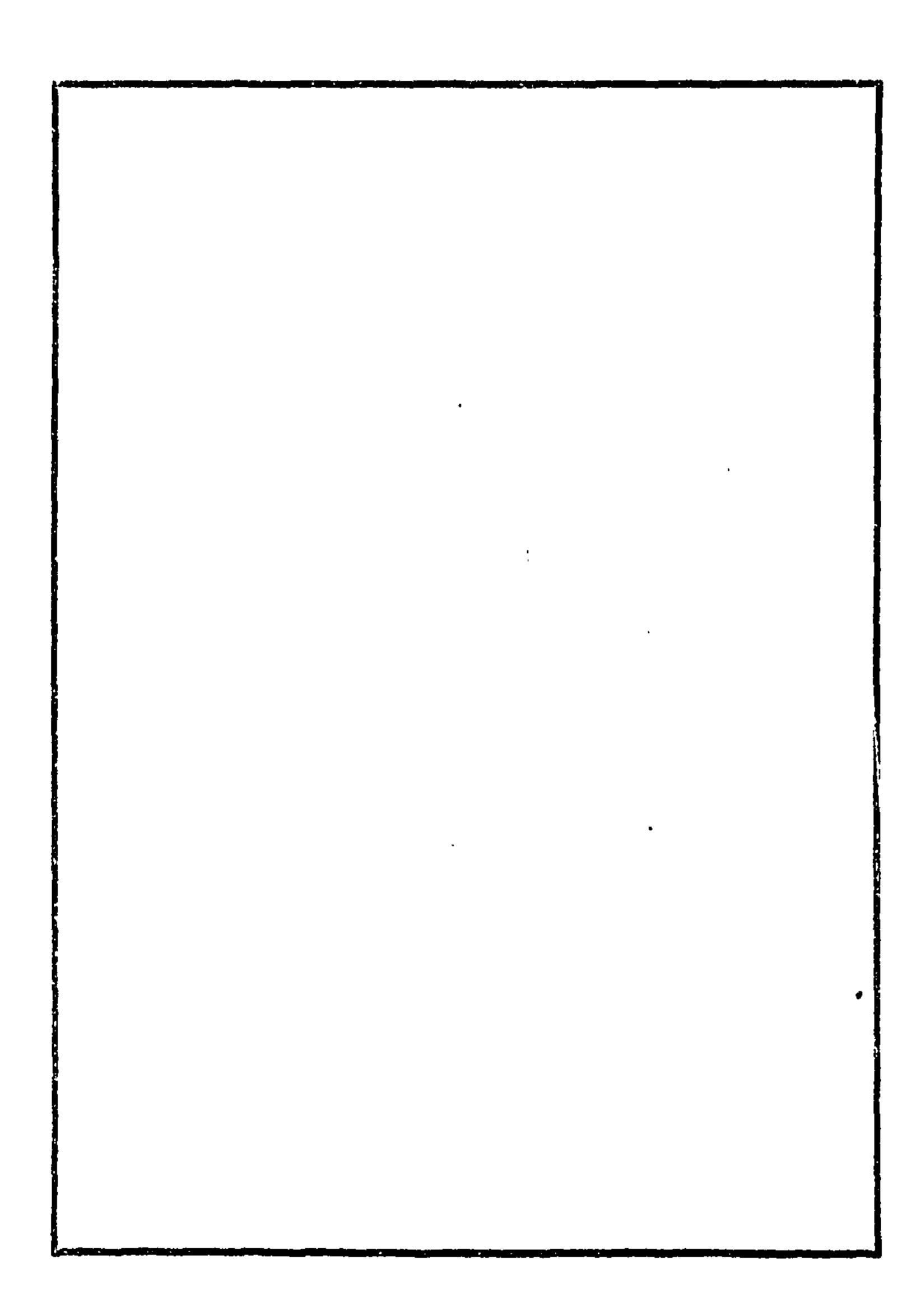


## CENSUS

OF THE

# UNITED STATES,

By States and Counties, 1870.



### CENSUS

OF THE

# United States, by Counties, for 1870.

ALABAMA—Area, 50,7	22 square miles.
Autauga 11,623 Dallas	
Baker 6,194 De Kalb	
Baldwin 6,004 Elmore	
Barbour 23,309 Escambia	
Bibb	, ,
Blount 9,945 Fayette	7,136 Perry 24,975
Bullock 24,474 Franklin	8,006 Pickens 17,690
Butler 14,981 Geneva	
Calhoun 13,980 Greene	18,399 Randolph 12,006
Chambers 17,562 Hale	
Cherokee 11,132 Henry	
Choctaw 12,676 Jackson	
Clark 14,663 Jefferson	
Clay 9,560 Lauderdale	
Cleburne 8.017 Lawrence	16 658 Talladora 18 064
Cleburne 8,017 Lawrence Coffee 6,171 Lee	91 750 Tellanouse 16 963
Colbort 19 537 Livroetono	15 017 Tugonloogs 90 091
Colbert 12,537 Limestone	· · · · · · · · · · · · · · · · · · ·
Conecub 9,574 Lowndes	
Coosa	
Covington 4,868 Madison	
Crenshaw 11,156 Marengo	
Dale	6,059 Total
ARKANSAS-Area, 52,1	98 square miles.
Arkansas 8,268 Franklin	9,627 Montgoniery 2,984
Ashley 8,042 Fulton	4,843 Newton 4,374
Benton 13,831 Grant	3,943, Oauchita 12,975
Boone 7,032 Green	1
Bradley 8,646 Hempstead	
Calhoun 3,853 Hot Springs	
Carroll 5,780 Independence	
Chicot	
Clark 11,953 Jackson	7,268 Pope
Columbia 11,397 Jefferson	15,733 Prairie 5,604
Conway 8,112 Johnson	
Crawford 8,957 Lafayette	9,139 Randolph 7,466
Crittenden 3,831 Lawrence	5,981 St. Francis 6,714
Craighead 4,577 Little River	3,236 Saline 3,911
Cross 3,915 Madison	8,231 Scott 7,483
Dallas	3,979 Searcy 5,614
Desha 6,125 Mississippi	3,633 Bebastian 12,940
Drew 9,960 Monroe	8,336 Sevier 4,492
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Sharpe	8,018
CALIFORNIA—Area, 188,981 square mil-	e <b>s.</b>
Alameda	
Alpine 685 Mariposa 4,572 Santa Clara	26.246
Amader 9,582 Mendocino 7,545 Santa Cruz	8,743
Butte 11,403 Merced 2,807, Shasta	4,173
Calaveras	
Colusa 6,165 Monterey 9,876 Siskiyou	6,848
Contra Costa 8,461 Napa 7,163 Solano	
Del Norte 2,022 Nevada 19,134 Sonoma	
El Dorado 10,309 Placer	$\dots$ 6,499
Fresuo 6,336 Plumas 4,489 Sutter	
Humboldt 6,140 Sacramento 26,830 Tehama	
Inyo	
Kern 2,925   San Diego 4,951   Tulare   Klamath 1,686   San Francisco 149,473   Tuolumne	4,533 e tso
Lake 2,969 San Joaquin 21,050 Yolo	
Lassen 1,327 San L. Obispo 4,772 Yuba	10.851
Los Angelos 15,309 San Mateo 6,635 Total	
CONNECTICUT—Area, 4,674 square mile	s.
Fairfield	22,000
Hartford109,007 New Haven121,257 Windham	38,518
Litchfield	
TOTAL ANTE Anno 0 100 servers miles	
DELAWARE—Area, 2,120 square miles	•
L. KONT	04 404
flintal	31,696
Kent	125,015
	125,015
FLORIDA—Area, 59,268 square miles.	31,696 125,015
FLORIDA—Area, 59,268 square miles.	31,696 125,015 4.247
FLORIDA—Area, 59,268 square miles.  Alachua	31,696 125,015 4,247 2,195
FLORIDA—Area, 59,268 square miles.  Alachua	31,696 $125,015$ $4,247$ $2,195$ $3,169$
FLORIDA—Area, 59,268 square miles.  Alachua	31,696 $125,015$ $4,247$ $2,195$ $3,169$ $3,821$
FLORIDA—Area, 59,268 square miles.         Alachua       17,328 Hernando       2,938 Nassau         Baker       1,325 Hillsboro       3,216 Orange         Bradford       3,671 Holmes       1,572 Polk         Brevard       1,216 Jackson       9,528 Putnam         Calhoun       998 Jefferson       13,398 Santa Rosa         Clay       2,098 La Fayette       1,783 St. John's	$egin{array}{llllllllllllllllllllllllllllllllllll$
FLORIDA—Area, 59,268 square miles.         Alachua       17,328 Hernando       2,938 Nassau         Baker       1,325 Hillsboro       3,216 Orauge         Bradford       3,671 Holmes       1,572 Polk         Brevard       1,216 Jackson       9,528 Putnam         Calhoun       998 Jefferson       13,398 Santa Rosa         Clay       2,098 La Fayette       1,783 St. John's         Columbia       7,335 Leon       15,236 Sumter	$egin{array}{llllllllllllllllllllllllllllllllllll$
FLORIDA—Area, 59,268 square miles.         Alachua       17,328 Hernando       2,938 Nassau         Baker       1,325 Hillsboro       3,216 Orauge         Bradford       3,671 Holmes       1,572 Polk         Brevard       1,216 Jackson       9,528 Putnam         Calhoun       998 Jefferson       13,398 Santa Rosa         Clay       2,098 La Fayette       1,783 St. John's         Columbia       7,335 Leon       15,236 Sumter         Dade       85 Levy       2,018 Suwannee	$egin{array}{llllllllllllllllllllllllllllllllllll$
FLORIDA—Area, 59,268 square miles.         Alachua       17,328 Hernando       2,938 Nassau         Baker       1,325 Hillsboro       3,216 Orange         Bradford       3,671 Holmes       1,572 Polk         Brevard       1,216 Jackson       9,528 Putnam         Calhoun       998 Jefferson       13,398 Santa Rosa         Clay       2,098 La Fayette       1,783 St. John's         Columbia       7,535 Leon       15,236 Sumter         Dade       85 Levy       2,018 Suwannee         Duval       11,921 Liberty       1,050 Taylor	$egin{array}{llllllllllllllllllllllllllllllllllll$
FLORIDA—Area, 59,268 square miles.         Alachua       17,328 Hernando       2,938 Nassau         Baker       1,325 Hillsboro       3,216 Orauge         Bradford       3,671 Holmes       1,572 Polk         Brevard       1,216 Jackson       9,528 Putnam         Calhoun       998 Jefferson       13,398 Santa Rosa         Clay       2,098 La Fayette       1,783 St. John's         Columbia       7,335 Leon       15,236 Sumter         Dade       85 Levy       2,018 Suwannee         Duval       11,921 Liberty       1,050 Taylor         Escambia       7,817 Madison       11,121 Volusia	$egin{array}{llllllllllllllllllllllllllllllllllll$
FLORIDA—Area, 59,268 square miles.         Alachua       17,328 Hernando       2,938 Nassau         Baker       1,325 Hillsboro       3,216 Orauge         Bradford       3,671 Holmes       1,572 Polk         Brevard       1,216 Jackson       9,528 Putnam         Calhoun       998 Jefferson       13,398 Santa Rosa         Clay       2,098 La Fayette       1,783 St. John's         Columbia       7,835 Leon       15,236 Sumter         Dade       85 Levy       2,018 Suwannee         Duval       11,921 Liberty       1,050 Taylor         Escambia       7,817 Madison       11,121 Volusia         Franklin       1,256 Menatee       1,931 Wakulla	$egin{array}{llllllllllllllllllllllllllllllllllll$
FLORIDA—Area, 59,268 square miles.         Alachua       17,328 Hernando       2,938 Nassau         Baker       1,325 Hillsboro       3,216 Orange         Bradford       3,671 Holmes       1,572 Polk         Brevard       1,216 Jackson       9,528 Putnam         Calhoun       998 Jefferson       13,398 Santa Rosa         Clay       2,098 La Fayette       1,783 St. John's         Columbia       7,335 Leon       15,236 Sumter         Dade       85 Levy       2,018 Suwannee         Duval       11,921 Liberty       1,050 Taylor         Escambia       7,817 Madison       11,121 Volusia         Franklin       1,256 Menatee       1,931 Wakulla         Gadsden       9,802 Marion       10,804 Walton	31,696 $125,015$ $4,247$ $2,195$ $3,169$ $3,821$ $3,312$ $2,618$ $2,952$ $3,556$ $1,453$ $1,723$ $2,506$ $3,041$
FLORIDA—Area, 59,268 square miles.         Alachua       17,328 Hernando       2,938 Nassau         Baker       1,325 Hillsboro       3,216 Orauge         Bradford       3,671 Holmes       1,572 Polk         Brevard       1,216 Jackson       9,528 Putnam         Calhoun       998 Jefferson       13,398 Santa Rosa         Clay       2,098 La Fayette       1,783 St. John's         Columbia       7,835 Leon       15,236 Sumter         Dade       85 Levy       2,018 Suwannee         Duval       11,921 Liberty       1,050 Taylor         Escambia       7,817 Madison       11,121 Volusia         Franklin       1,256 Menatee       1,931 Wakulla         Gadsden       9,802 Marion       10,804 Walton         Hamilton       5,749 Monroe       5,657 Washington	$egin{array}{llllllllllllllllllllllllllllllllllll$
FLORIDA—Area, 59,268 square miles.         Alachua       17,328 Hernando       2,938 Nassau         Baker       1,325 Hillsboro       3,216 Orange         Bradford       3,671 Holmes       1,572 Polk         Brevard       1,216 Jackson       9,528 Putnam         Caihoun       998 Jefferson       13,398 Santa Rosa         Clay       2,098 La Fayette       1,783 St. John's         Columbia       7,335 Leon       15,236 Sumter         Dade       85 Levy       2,018 Suwannee         Duval       11,921 Liberty       1,050 Taylor         Escambia       7,817 Madison       11,121 Volusia         Franklin       1,256 Menatee       1,931 Wakulla         Gadsden       9,802 Marion       10,804 Walton	$egin{array}{llllllllllllllllllllllllllllllllllll$
FLORIDA—Area, 59,268 square miles.         Alachua       17,328 Hernando       2,938 Nassau         Baker       1,325 Hillsboro       3,216 Orange         Bradford       3,671 Holmes       1,572 Polk         Brevard       1,216 Jackson       9,528 Putnam         Calhoun       998 Jefferson       13,398 Santa Rosa         Clay       2,098 La Fayette       1,783 St. John's         Columbia       7,335 Leon       15,236 Sumter         Dade       85 Levy       2,018 Suwannee         Duval       11,921 Liberty       1,050 Taylor         Escambia       7,817 Madison       11,121 Volusia         Franklin       1,256 Menatee       1,931 Wakulla         Gadsden       9,802 Marion       10,804 Walton         Hamilton       5,749 Monroe       5,657 Washington	31,696 $125,015$ $4,247$ $2,195$ $3,169$ $3,821$ $3,312$ $2,618$ $2,952$ $3,556$ $1,453$ $1,723$ $2,506$ $3,041$ $2,302$ $187,748$
FLORIDA—Area, 59,268 square miles.  Alachua 17,328 Hernando 2,938 Nassau Baker 1,325 Hillsboro 3,216 Orange Bradford 3,671 Holmes 1,572 Polk Brevard 1,216 Jackson 9,528 Putnam Calhoun 998 Jefferson 13,398 Santa Rosa Clay 2,098 La Fayette 1,783 St. John's Columbia 7,335 Leon 15,236 Sumter Dade 85 Levy 2,018 Suwannee Duval 11,921 Liberty 1,050 Taylor Escambia 7,817 Madison 11,121 Volusia Franklin 1,256 Menatee 1,931 Wakulla Gadsden 9,802 Marion 10,804 Walton Hamilton 5,749 Monroe 5,657 Washington Total.  GEORGIA—Area, 58,000 square miles.	31,696 $125,015$ $4,247$ $2,195$ $3,169$ $3,821$ $3,312$ $2,618$ $2,952$ $3,556$ $1,453$ $1,723$ $2,506$ $3,041$ $2,302$ $187,748$
### FLORIDA—Area, 59,268 square miles.  Alachua 17,328 Hernando 2,938 Nassau  Baker 1,325 Hillsboro 3,216 Orauge  Bradford 3,671 Holmes 1,572 Polk  Brevard 1,216 Jackson 9,528 Putnam  Calhoun 998 Jefferson 13,398 Santa Rosa  Clay 2,098 La Fayette 1,783 St. John's  Columbia 7,835 Leon 15,236 Sumter  Dade 85 Levy 2,018 Suwannee  Duval 11,921 Liberty 1,050 Taylor  Escambia 7,817 Madison 11,121 Volusia  Franklin 1,256 Menatee 1,931 Wakulla  Gadsden 9,802 Marion 10,804 Walton  Hamilton 5,749 Monroe 5,657 Washington  Total  GEORGIA—Area, 58,000 square miles.  Appling 5,086 Bibb 21,255 Calhoun	31,696 $125,015$ $4,247$ $2,195$ $3,169$ $3,821$ $3,312$ $2,618$ $2,952$ $3,556$ $1,453$ $1,723$ $2,506$ $3,041$ $2,302$ $3,748$ $5,503$
### FLORIDA—Area, 59,268 square miles.  Alachua 17,328 Hernando 2,938 Nassau  Baker 1,325 Hillsboro 3,216 Orange  Bradford 3,671 Holmes 1,572 Polk  Brevard 1,216 Jackson 9,528 Putnam  Calhoun 998 Jefferson 13,398 Santa Rosa  Clay 2,098 La Fayette 1,783 St. John's  Columbia 7,335 Leon 15,236 Sumter  Dade 85 Levy 2,018 Suwannee  Duval 11,921 Liberty 1,050 Taylor  Escambia 7,817 Madison 11,121 Volusia  Franklin 1,256 Menatee 1,931 Wakulla  Gadsden 9,802 Marion 10,804 Walton  Hamilton 5,749 Monroe 5,657 Washington  Total  GEORGIA—Area, 58,000 square miles  Appling 5,086 Bibb 21,255 Calhoun  Baker 6,843 Brooks 8,342 Camden  Baldwin 10,618 Bryan 5,252 Campbell	31,696 $125,015$ $4,247$ $2,195$ $3,169$ $3,821$ $3,312$ $2,618$ $2,952$ $3,556$ $1,453$ $1,723$ $2,506$ $3,041$ $2,302$ $3,041$ $2,302$ $3,748$ $3,748$
### FLORIDA—Area, 59,268 square miles.  Alachua 17,328 Hernando 2,938 Nassau  Baker 1,325 Hillsboro 3,216 Orange  Bradford 3,671 Holmes 1,572 Polk  Brevard 1,216 Jackson 9,528 Putnam  Calhoun 993 Jefferson 13,398 Santa Rosa  Clay 2,098 La Fayette 1,783 St. John's  Columbia 7,335 Leon 15,236 Sumter  Dade 85 Levy 2,018 Suwannee  Duval 11,921 Liberty 1,050 Taylor  Escambia 7,817 Madison 11,121 Volusia  Franklin 1,256 Monatee 1,931 Wakulla  Gadsden 9,802 Marion 10,804 Walton  Hamilton 5,749 Monroe 5,657 Washington  Total  GEORGIA—Area, 58,000 square miles  Appling 5,086 Bibb 21,255 Calhoun  Baker 6,843 Brooks 8,342 Camden  Baldwin 10,618 Bryan 5,252 Campbell  Banks 4,973 Bullock 5,610 Carroll	31,696 $125,015$ $4,247$ $2,195$ $3,169$ $3,821$ $3,312$ $2,618$ $2,952$ $3,556$ $1,453$ $1,723$ $2,506$ $3,041$ $2,302$ $3,5748$ $4,615$ $9,176$ $1,782$
### FLORIDA—Area, 59,268 square miles.  Alachua 17,328 Hernando 2,938 Nassau Baker 1,325 Hillsboro 3,216 Orange Bradford 3,671 Holmes 1,572 Polk Brevard 1,216 Jackson 9,528 Putnam Calhoun 998 Jefferson 13,398 Santa Rosa. Clay 2,998 La Fayette 1,783 St. John's. Columbia 7,335 Leon 15,236 Sumter Dade 85 Levy 2,018 Suwannee Duval 11,921 Liberty 1,050 Taylor Escambia 7,817 Madison 11,121 Volusia Franklin 1,256 Menatee 1,931 Wakulla Gadsden 9,802 Marion 10,804 Walton Hamilton 5,749 Monroe 5,657 Washington  **Total**  GEORGIA—Area, 58,000 square miles. Appling 5,086 Bibb 21,255 Calhoun Baker 6,843 Brooks 8,342 Camden Baldwin 10,618 Bryan 5,252 Campbell Banks 4,973 Bullock 5,610 Carroll Bartow 16,566 Burke 17,679 Catoosa	31,696 125,015 4,247 2,195 3,169 3,821 3,312 2,618 2,952 3,556 1,453 1,723 2,506 3,041 2,302 1,302 1,748 5,503 4,615 9,176 11,782 1,409
### FLORIDA—Area, 59,268 square miles.  Alachua 17,328 Hernando 2,938 Nassau  Baker 1,325 Hillsboro 3,216 Orange  Bradford 3,671 Holmes 1,572 Polk  Brevard 1,216 Jackson 9,528 Putnam  Calhoun 993 Jefferson 13,398 Santa Rosa  Clay 2,098 La Fayette 1,783 St. John's  Columbia 7,335 Leon 15,236 Sumter  Dade 85 Levy 2,018 Suwannee  Duval 11,921 Liberty 1,050 Taylor  Escambia 7,817 Madison 11,121 Volusia  Franklin 1,256 Monatee 1,931 Wakulla  Gadsden 9,802 Marion 10,804 Walton  Hamilton 5,749 Monroe 5,657 Washington  Total  GEORGIA—Area, 58,000 square miles  Appling 5,086 Bibb 21,255 Calhoun  Baker 6,843 Brooks 8,342 Camden  Baldwin 10,618 Bryan 5,252 Campbell  Banks 4,973 Bullock 5,610 Carroll	31,696 125,015 4,247 2,195 3,169 3,821 3,312 2,618 2,952 3,556 1,453 1,723 2,506 3,041 2,302 1,302 1,748 5,503 4,615 9,176 11,782 1,409
### FLORIDA—Area, 59,268 square miles.  Alachua 17,328 Hernando 2,938 Nassau Baker 1,325 Hillsboro 3,216 Orange Bradford 3,671 Holmes 1,572 Polk Brevard 1,216 Jackson 9,528 Putnam Calhoun 998 Jefferson 13,398 Santa Rosa. Clay 2,998 La Fayette 1,783 St. John's. Columbia 7,335 Leon 15,236 Sumter Dade 85 Levy 2,018 Suwannee Duval 11,921 Liberty 1,050 Taylor Escambia 7,817 Madison 11,121 Volusia Franklin 1,256 Menatee 1,931 Wakulla Gadsden 9,802 Marion 10,804 Walton Hamilton 5,749 Monroe 5,657 Washington  **Total**  GEORGIA—Area, 58,000 square miles. Appling 5,086 Bibb 21,255 Calhoun Baker 6,843 Brooks 8,342 Camden Baldwin 10,618 Bryan 5,252 Campbell Banks 4,973 Bullock 5,610 Carroll Bartow 16,566 Burke 17,679 Catoosa	31,696 125,015 4,247 2,195 3,169 3,821 3,312 2,618 2,952 3,556 1,453 1,723 2,506 3,041 2,302 1,302 1,748 5,503 4,615 9,176 11,782 1,409

		•
Chatham	41,279   Hall	. 9,607 Pike 10,905
Chattahoochee	6.059 Hancock	11,317 Polk 7,822
Chattooga	6 009 Haralgan	4,004 Pulaski
. , ,	10 200 Harris	. 13,284 Putnam 10,461
Cherokee	10,000 1141110	. 10,403 (E HIMMI)
_	# 100 Trans.	. 6,783 Quitman 4,150
Clay	5,493 Heard	. 7,866 Rabun
Clayton	5,477 Henry	. 10,102 Randelph 10,561
Cliuch	3,945   Houston	. 20,406 Richmond 25,724
Cobb	13,814 Irwin	. 1,837 Schley 5,129
Coffee	3,192 Jackson	. 11,J81 Scriven 9,175
Colquitt	1,654 Jasper	. 10,489 Spalding 10,205
Columbia	13,529 Jefferson	. 12,180 Stewart 14,204
Coweta	15.875 Johnson	. 2,964 Sumter 16,559
Crawford	7.557 Jones	. 9,436 Tall ot
Dade		. 7,834 Taliaterro 4,796
Dawson	4	9,567 Tatnall 4,860
_		7,688 Taylor 7,143
Decatur	15,183 Liberty	5 319 (Pol/ola
De Kalb	Fr miske, ) to the	
Dooly		
Dougherty	as ababi s les et	
Early	and a card of the company of the com	
Echols		. 5,227 Troup 17,632
Effingham	4,214 Marion	7 7 7 1
Elbert	9,249 McIntosh	. 4,491 (Union 5,167
Emanuel		,
Fannin		. 3,091 Walker 9,925
Fayette	8,221 Milton	. 4,284 Walton 11,038
Floyd	17,230   Mitchell	. 6,633   Ware 2,286
Forsyth	7,983 Monroe	. 17,213 Warren 10,545
Franklin	7,893 Montgomery	. 3,586 Washington 15,812
Fulton	33,446 Morgan	. 10,696 Wayne 2,177
Gilmer	6,644 Murray	. 6,500 Webster 4,677
Glascock	2,736 Muscogee	. 16,663 White 4,006
Glynn	5.376 Newton	. 14.615   Whitfield
Gordon	9,268 Oglethorpe	. 11.782 Wilcox
Greene	12,454 Paulding	7.639 Wilkes
Gwinnett	12.431 Pickens	. 5,317 Wilkinson 9,383
Habersham	6.322 Pierce	. 2,778 Worth 3,778
	•••••	***************************************
ILLI	NOIS—Area, 55,40	05 square miles.
		. 25,235 Fulton 38,291
Alexander	10.564 Cook	.349,966 Gallatin
Rond	13 159 Crawford	. 13,889 Greene 20,277
Ranta	19 949 Chimborland	. 12,223 Grundy
**************************************	19 905. Do Kully	- Ampano, va usivaj se ce ce e e e e e Ampire O - Ott Offs, Hospithen - 10 //14
Dissert	20 315 135 1344	. 23,265; Hamilton 13,014
Dureau	- C 509 Translag	. 14,768 Hancock 35,935
CHIROHIA	10 705 Dec Deces 57	. 13,494-Hardin 5,113
Carron	10, 100 171 Page X	. 16,685 Henderson 12,582 —
Cuss	- 11,050 Ragar	. 21,450 Henry 35,506
Champaign	02, (3) (PAWA QB	. 7,565 Iroquois
Christian	20,363 Emigham	. 15,653 Jackson 19,634
Clark	18,719 Fayette	. 19,638 Jasper 11,234
Clay	15.875! Ford	. 9.103 Jefferson 17.864
Clinton	16,285 Franklin	. 12,652 Jersey 15,054
		-

					1
Jo Daviess\	27,820	McHenry	23,762	Bangamoti	46,352
Johnson	11,248	McLean	<b>೨</b> ೮,೪೮೮	schuyler	17,419
Kane	39,091	Menard	11,735	Scott	10,530
Kaukakee	24,352	Mercer	18,769	Shelby	25,476
Kendall	12,399	210proe	12,982	Stark	10,751-
Knox	39,522	Montgomery	25,314	St. Clair	51,068
Take	21.014	Mcrgan	28.463	Stophenson	30.608~
La Sallex	00,792	Moultrie	10,385	Tazowett	27,903
Lawrence	12 033	Ogle	27,492	iunion	16,018
Lee	27,171	Peoria	47,044	Vermillion	30,388
Livingetou	31,471	Perry	13,729	Wabash	8,841
Logan ,	23.053	Platt	10,958	Warren	23,174-
Macon	26,481	Pike	30,768	Washington	17,599
Macoupin	32,726	Pope	11,437	Wayne	19,758
Madison	44,191	Pulaski	8,752	White	16,846
				Whitesides	
Marshall	16,956	Raudolph	20,859	Will	43,015
Mason	16,184	Richland	12,803	Williamson	17,329
Massac	9,581	Rock IslandX	29,783	WinnebagoX	29,301
Massac	<b>26,5</b> 09	Saline	12,714	Woodford	18,956
	Tota	l	****		539,891
INDI	ANA	-Area, 33,80	9 80	uare miles.	
		•	•		10 660
Aums,	11,002	Hendricks	20,211	Pike	13,779
Allen	40,404	Tions	22,500	Porter	10,942
Bartholomew	21,153	Howaru	10,021	Posey	19,160
Renton	0,010	Huutington	19,030	Pulaski	7,801
Blackford	0,212	Jackson	10,014	Putnam	31,014
Boone ,	22,000	Tour	15 (M)	Randolph	42,004 40'077
Drown,	16 150	Informant	90 741	Ripley	17 696
Can	70,132	Jannings	711 910	Scott	7 873
Olaska	94 770	Tolmann	19 966	Shelby	21 892
				Spencer	
Climton	17 930	Kogoineko	93 531	Starke	3 888
Chorneond	0.851	IT. Anga	14 149	Steuben	12 854
Daviogo	16 747	Tako	12 339	St. Joseph	25 322
December	24 116	La Porta	27 062	Sullivan	18.453
Decator	19,053	Lawrence	14,628	Switzerland	12.184
De Kally	17,167	Madison	22,770	Tippecanoe	33,515
Delaware	19,030	Mariou	71,939	Tipton	11.953
Dahois	12.597	Marshall	20.211	Union	6.341
Elkhart	26.028	Martin	11.103	Vanderburg	33.145
Favette	10.476	Miami	21.052	Vermillion	10.840
Floyd	23,300	Mouroe	14.168	Vigo	33,594
Fountain	16.389	Montgomery	23,765	Wabash	21,305
Franklin	20,223	Morgan	17.528	Warren	10,204
Fulton	12,726	Newton	5.829	Warrick	17.653
Gibson	17.371	Noble	20.389	Washington	18,495
Grant	18.487	Ohlo	5.837	Wayne	34,048
Greene	19,514	Orange	19,497	Wells	19,585
Hamilton	20.882	Owen	16.137	White	10.554
Hancock	15,123	Parke	18,166	Whitley	14,399
Harrison	19,913	Perry	14,801	Total 1,6	80,687
	•		,	•	•

IOWA—Area, 50	),914 square miles.
Adair 3,982 Floyd	10,768; Monons 3,654
Adams 4,614 Franklin	4,738 Monroe 12,724
Allamakee 17,868 Fremont	11,174 Montgomery 5,934
Appanoose 16,456 Greene	4,627 Muscatine 21,688
Audubon 1,212 Grundy	6,399 O'Brien 715
Benton 22,454 Guthrie	7.061 Pago 9.975
Black Hawk 21,706 Hamilton	6,055 Palo Alto 1,336
Boone 14,584 Hancock	999 Plymouth 2,139
Bremer 12,528 Hardin	13,684 Pocahontas 1,446
Buchanan	8,931 Polk 27,857
Buena Vista 1,585 Henry	21,463 Pottawattamie 16,893
Butler 9,951 Howard	6,282 Poweshiek 15,581
Calhoun 1,602 Humboldt .	
Carroll	
Case 5,464 Iowa	16,644 Scott 38,599
Cedar 19,731 Jackson	.X 22,619 Shelby 2,540
Cerro Gordo 4,722 Jasper	
	17,839 Story 11,651
Chickasaw 10,180 Johnson	
	19,731 Taylor 6,989
Clay	
Clayton 27,771 Kossuth	
- Clinton 35,357 Lee	
Crawford 2.530 Linn	28.852 Warren 17.980
Dallas	
Davis	10,388 Wayne
Decatur 12,018 Lyon	221 Webster 10,484
Delaware 17,432 Madison	
Des Moines 27,256 Mahaska	22,508 Winneshiek 23,570
Dickinson 1,389 M don	24,496 Woodbury 6,172
Dubuque 38,969 Marshall	
Emmett 1,392 Mills	
Fayette 16,973   Mitchell	9,582 Total1,191,792
•	78,418 square miles.
Allen	19,969 Lyon 8,014
Anderson 5,220 Douglass	20,592 Marion
Atchison 15,507 Ellis	1,336 Marshall 6,901
Barton 2 Ellsworth	1,185 McPherson 738
Bourbon 10,076 Ford	427 Miami
Brown 6,823 Franklin	
Butler 8,035 Greenwood.	3,484 Montgomery 7,564
Chase 1,975 Howard	2,704 Morris 2,225
Cherokee 11,038 Jackson	6,053 Nemeha 7,339
Clay 2,942 Jefferson	12,526 Neosho 10,206
Cloud 2,323 Jewell	207 Ness 2
Coffey 6,201 Johnson	13,684 Osage 7,648
Cowley 1,175 Labette	9,973 Osborne 33
Crawford 2,100 Leavenworth	2,127
DAVIS 5,528 Lincoln	2,127 516 Pawnee
Dickinson 3,049 Linn	13,174 Pottawattamie 7,848

Republic	1.281 Shawnee	13,131; Wallace 5	538
Rice	5 Smith	66 Washington 4,0	
Rileey	5,105 Sumner	22 Wilson 6,0	394
Rusnell	156 Trego	166 Woodson 3,8	
Saline	4,246 Wabaunsee	3,362 Wyandotte 10,0	
Sedgwick	1,095 Total		399
		1	
KENTU	JCKY—Area, 37,68	80 square miles.	
		19,398 Menifee 1,9	986
		11,580 Mercer 13,	
		9,379 Metcalfe 7,9	
Ballard	12,576 Greenup		231
Barren	17,780 Hanoock	6,591 Montgomery 7,5	557
Bath	10,145   Hardin	15,705 Morgan 5,9	975
Boone	10,696 Harlan	4,415 Muhlenburg 12,6	638
Bourbon	14,863 Harrison	12,993 Nelson 14,8	804
Boyd	8,573 Hart	13,687 Nicholas 9,1	129
Boyle	9,515 Henderson	18,457 Ohio	561
Bracken	11,409 Henry	11,066 Oldham 9,0	J27
Breathit	19 (th) Translation	8,453 Owen	309 200
Breckenriage	7 791 Inchan	13,827 Owsley	หลุม เกอเก
Dutlor	9 JOA JORCASOR,	4,547 Pendleion 14,0 118,953 Perry 4,3	97.1
Caldwall	10.896 Josephine	8,638 Pike 9,	614 589
Callaway	9.410 John Reil	3,731 Powell 2,3	599
Campbell	27.406 Johnson	7,491 Pulaski 17,6	670
Carro.1	6.189 Kenton	36,096 Robertson 5,	399
Carter	7,509 Knox.	8,294 Rock Castle 7,	
Casey	8,884 La Rue	8,235 Rowan 2,9	
Christian	23,227 Laurel	6,016 Russell 5,8	
	10,882 Lawrence	,	
Clay	8,297 Lee	3,058 Shelby 15,	
Chitton des	6, 197 Letcher		
Cumberland	9,381 Lewis	9,115 Spencer 5,9	3.30 036
	90 714 Tivingston	10,947 Taylor 8,3	220 619
Edmonson		8,200 Told	
Elliott	4.433 Lyon	6,233 Trimble 5,	577
Estill	9.198 Madison	19,543 Union 13,0	
Fayerte	26,656 Magoffin	4,684 Warren 21,	742
Fleming	13,398 Marion	12,838 Washington 12,	464
Floyd	7,877 Marshall	9,455 Wayne 10,6	602 -
Franklin	15,309   Mason	[18,126] Webster 10,	937
		13,988 Whitley 8,5	
		7,614 Wolfe 3,0	
		9,485 Woodford8,	
Grant	9,529] Ton	al	UII
T.ATITE	TARTA A 200 A 1 A 1	55 canono milos	
	IANA—Area, 41,2	_	*0*
Ascension	11,577 (Bossier	12,675 Cameron	591 110
Avorollog	10,224 Chacolor	21,714 Carroll 10,	11U 476
Rienville	10 638 Coldwall	6,733 Catahoula 8, 4,820 Claiborne 20,	410 940
	****OOOTOBIUMGII	3,020; C. ALDULING 20,	<b>43</b> U

De Soto.  East Bat  East Fel  Franklin  Grant  Iberia  Iberville  Jackson  Jefferson  Lafayett  Lafourel  Livingst	9,977 Morehouse. 9,387 St. Landry. 25,553 14,962 Natchitoches 18,265 St. Martin 9,370 n Rouge 17,816 Orleans 191,418 St. Mary. 13,860 iana 13,499 Ouachita 11,582 St. Tammany 5,586 5,078 Plaquemines 10,552 Tangipahoa 7,928 4,517 Point Coupee 12,981 Tensas. 12,419 9,042 Rapides. 18,015 Terrebonne 12,441 12,347 Richland 5,110 Union 11,685 7,646 Sabine 6,456 Vermillion 4,528 17,767 St. Bernard 3,553 Washington 3,330 10,388 St. Charles 4,857 West Baton Rouge 5,114 14,719 St. Helena 5,423 West Feliciona 10,499 4,026 St. James 10,152 Winn 5,954 8,600 St. John the Baptist 6,762 Total 726,915	
	MAINE—Area, 31,766 square miles.	
Aroostoo Cumber Franklin	gin 35,866 Knox 30,823 Sagadahoc 18,803 29,609 Lincoln 25,597 Somerse 1 34,611 nd 82,021 Oxford 33,488 Waldo 34,522 18,811 Penobecot 75,150 Washington 43,343 36,495 Piscataquis 14,403 York 69,174 53,203 Total 626,915	
	MARYLAND-Area, 11,124 square miles.	
Anne Ar Baltimor Calvert Caroline Carroll, Cecil Charles	38,536   Dorchester       19,458   Queen       16,171         adel       24,457   Frederick       47,5 2   Saint   Mary's       14,944         330,741   Harford       22,605   Somerset       18,190         9,865   Howard       14,150   Talbot       16,137         12,101   Kent       17,102   Washington       34,712         28,619   Montgomery       20,563   Wicomico       15,802         25,874   Prince   George's       21,138   Worcester       16,419         15,738         Total       780,894	
M	ASSACHUSETTS—Area, 7,800 square miles.	
Barustat Berkshir	e 32,774 Franklin	
Bristol		
Dukes	3,787 Middlesex	
Essex		
	MICHIGAN—Area, 56,243 square miles.	
Alcona	696 Chippewa 1,689 Ionia 27,681	
- Allegan .	32,105 Clare 3,163	
– Alpena	2,756 Clinton 22,845 Isabella 4,113	
AHITIM . Rarry	1,985 Delta 2,542 Jackson 36,047 22,199 Euton 25,171 Kalamazoo 32,054	
Bay	15,900 Emmet	
Benzie		
Berrien Branch		
Calhoun		
Cass	21,094 Houghton 13,879 Leelanaw 4,576 1,724 Huron 9,049 Lenawee 45, 5	
Charleyd	1,724 Huron 9,049 Lenawee 45, 5	
одероув	1, 2,196 Ingham 25,268 Livingston 19,336	
	والمراجع المراجع المرا	_

Macomb Manistee. Manitou Marquette. Mason Mecosta. Menominee Midland Missaukee	27,616 Muskegon 6,074 Newaygo. 891 Oakland. 15,033 Oceana 3,263 Ogemaw 5,642 Ontonagon 1,791 Osceola 3,285 Oscoda.	12 Tuscola 13,714 2,845 Van Buren 28,829 2,093 Washtenaw 41,434 70 Wayne 119,038 26,651 Wexford 650
MINNE	SOTA—Area, 95	5,274 square miles.
Aitkin	178!Hennepin	21,566   Pope 2,691
Anoka	3.940 Houston	14,936 Ramsey 23,085
Becker	308 Isanti	2,035 Redwood 1,829
Beltrami	80 Itaeca	
Benton	1,558 Jackson	
Big Stone	24 Kanabec	
Blue Earth	17,302 Kandiyohi	
Brown	6,396 Lac qui Parle	
Carlton	286 Lake	
	11,586 Le Sueur	11.607 Stearns 14,206
Cass	380 Martin	3,867 Steele 8,271
Chippewa	1,467 McLeod	
Chisago	4,358 Meeker	
Clay	534 Monongalia	1,109 Todd 2,036 8,160 Traverse 13
Crow Wing	200 Morrison	1,681 Wabashaw 15,859
Dakota	16,312 Mower	
Dodge	·	209 Waseca 7,854
Douglass	4,239 Nicollet	8,362 Washington 11,809
Faribault	9.940 Nobles	117 Watonwan 2.426
Fillmore	24.887 Olmsted	117 Watonwan 2,426 19,793 Wilkin 295
Freeborn	10,578 Otter Tail	1,968 Winona 22,319
Goodhue	22,618 Pembina	64 Wright 9,457
Grant	340 Pine	648 Total439,706
MISSISS	SIPPI—Area, 47	,156 square miles.
Adams	19.084 Coahoma	7,144 Itawamba 7,812
		20,608 Jackson 4,362
Amite	10.973 Covington	4,753 Jasper 10,884
Attala	14,776 De Soto	32,021 Jefferson 13,848
Bolivar	9,732 Franklin	7,498 Jones 3,813
Calhoun	10,561 Greene	2,038 Kemper 12,920
Carroll	21,047 Grenada	10,571 Lafayette 18,802
Chickasaw	19,839 Hancock	4,239 Lauderdale 13,462
Choctaw	16,988 Harrison	5,795 Lawrence 6,620
Claiborne	13,586 Hinds	30,488 Leake 8,496
Clark	7,505 Holmes	19,370 Lee
	Trandneug	0,007 Lineoin 10,184

,我们也是一个人,我们也没有一个人,我们也没有一个人,我们也没有一个人,我们也没有一个人,我们也没有一个人,我们也没有一个人,我们也没有一个人,我们也没有一个人 第一个人,我们也没有一个人,我们也是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们 

Marion	Lowndes 30,502 Perry	2.694†Tinnah
Marlon	Madison	. 11.303 Tishemingo 7.350
Marshall   22,416   Prentiss   9,348   Warren   26,760   Monroe   22,631   Rankin   12,977   Washington   14,569   Neshoba   7,439   Scott   7,847   Wayne   4,206   Newton   10,067   Simpson   5,718   Wilkinson   12,705   Noxubee   20,905   Smith   7,126   Winston   8,384   Oktibbeha   14,891   Sunflower   5,015   Yalabusha   13,254   Panola   20,754   Tallahatchie   7,852   Yazoo   17,279   Total   Total   Total   7,252   Yazoo   17,279   Total   7,279	Marion 4.211 Pontotoc	. 12.525 Tunica 5.358
Monroe   22,631   Rankin   12,977   Washington   14,569   Neshoba   7,439   Scott   7,847   Wayne   4,206   Newton   10,067   Simpson   5,718   Wilkinson   12,705   Noxubee   20,905   Smith   7,126   Winston   8,984   Panola   20,764   Tallahatchie   7,852   Yazoo   17,279   Total   Total   Suntlower   5,015   Yalabusha   13,254   Panola   20,764   Tallahatchie   7,852   Yazoo   17,279   Total   MISSOURI   Area   67,380   Square   miles   Adair   11,448   Greene   21,549   Ozark   3,363   Andrew   15,137   Grundy   10,5607   Pemiscot   2,059   Atchison   8,440   Harrison   14,635   Perry   9,877   Audrain   12,307   Henry   17,401   Pettis   18,706   Barton   5,087   Holt   11,652   Pike   23,076   Bates   15,960   Howard   17,233   Platte   17,352   Benton   11,322   Howell   4,218   Polk   12,445   Bollinger   8,162   Iron   6,278   Pulaski   4,714   Boone   20,765   Jackson   55,041   Putham   11,217   Buchanan   35,109   Jasper   14,928   Ralls   10,510   Butler   4,298   Jeferson   15,380   Randolph   15,908   Caldwell   11,350   Johnson   24,648   Ray   18,700   Callaway   10,202   Knox   10,974   Reynolds   3,755   Cape   Girardeau   17,546   Lawrence   13,067   Schuyler   8,820   Cartor   1,455   Lewis   15,114   Scotland   10,670   Cartor   1,465   Lewis   1,410   Morroe   17,419   Texas   2,618   Dekalb   2,628	Marshall 29,416 Prentiss	. 9,348 Warren 26,769
Newton   10,067   Simpson   5,718   Wilkinson   12,705     Noxubee   20,905   Smith   7,126   Winston   8,984     Oktibbeha   14,891   Sunitower   5,015   Yalabusha   13,254     Panola   20,754   Tallahatchie   7,852   Yazoo   17,279     Total   Total   Sunitower   11,279     Total   Total   Sunitower   1,279   Yazoo   17,279     Total   Area,   67,380   Square   miles     Adair   11,448   Greene   21,549   Ozark   3,363     Andrew   15,137   Grundy   10,507   Pemiscot   2,059     Atchison   8,440   Harrison   14,635   Perry   9,877     Audrain   12,307   Henry   17,401   Pettis   18,706     Barry   10,373   Hickory   6,452   Phelps   10,506     Barton   5,087   Holt   11,652   Pike   23,076     Bates   15,960   Howard   17,233   Platte   17,352     Benton   11,322   Howell   4,218   Polk   12,445     Bollinger   8,162   Iron   6,278   Pulaski   4,714     Boone   20,765   Jackson   55,041   Putnam   11,217     Buchanan   35,109   Jasper   14,028   Ralls   10,510     Butler   4,298   Jefferson   15,380   Randolph   15,908     Caldwell   11,330   Johnson   24,464   Ray   18,700     Callaway   19,202   Knox   10,974   Reynolds   3,756     Camdem   6,108   Larl-de   9,380   Ripley   3,756     Camdem   6,108   Larl-de   9,380   Ripley   3,756     Carroll   17,446   Lawrence   13,667   Schuyler   8,820     Carroll   17,461   Lawrence   13,667   Schuyler   8,820     Carroll   17,463   Maricon   23,230   St. Charles   21,334     Clarke   13,667   Madison   5,849   St. Clare   6,742     Clarke   13,667   Madison   5,849   St. Clare   6,742     Clarke   13,667   Madison   5,849   St. Clare   6,742     Clarke   16,03   Maricon   23,780   St. Franccis   9,742     Clarke   16,03   Maricon   23,780   St. Charles   21,304     Clarke   16,03   Maricon   23,780   St. Charles   24,304     Clarke   16,03   Maricon   23,780   St. Charles   24,304	Monroe	. 12,977 Washington 14,569
Noxubee	Neshoba	. 7,847 Wayne 4,206
Oktibbeha	Newton 10,067 Simpson	. 5,718; Wilkinson 12,705
Panola   20,754 Tallahatchie   7,852 Yazoo   17,279   Total   S27,923	Noxubee 20,905 Smith	. 7,126 Winston 8,984
MISSOURI Area, 67,380 square miles.   Adair	Uktiopeda 14,891; Sunnower	. 5,015 Yalabusha
MISSOURI	Total	. 7,852{X8Z00
Adair 11,448 Greene 21,549 Ozark 3,363 Andrew 15,137 Grundy 10,567 Pemiscot 2,059 Atchison 8,440 Harrison 14,635 Perry 9,877 Audrain 12,307 Henry 17,401 Pettis 18,706 Barry 10,373 Hickory 6,452 Phelps 10,506 Barton 5,087 Holt 11,652 Pike 23,076 Bates 15,960 Howard 17,233 Platte 17,352 Benton 11,322 Howell 4,218 Polk 12,445 Bollinger 8,162 Iron 6,278 Pulaski 4,714 Boone 20,765 Jackson 55,041 Putnam 11,217 Buchanan 35,109 Jasper 14,928 Ralls 10,510 Butter 4,238 Jefferson 15,380 Randolph 15,908 Caldwell 11,390 Johnson 24,646 Ray 18,700 Callaway 19,202 Knox 10,974 Reynolds 3,756 Camdem 6,108 Lacicle 9,380 Ripley 3,175 Cape Girardeau 17,558 Lafayette 22,623 Saline 21,672 Carroll 17,446 Lawrence 13,067 Schuyler 8,220 Carter 1,455 Lewis 15,114 Scotland 10,670 Cass 19,296 Lincoln 15,960 Scott 7,317 Cedar 0,474 Linn 15,900 Shannon 23,239 Chariton 19, Livingston 16,730 Shelby 10,119 Christian 6,707 Macon 23,230 St. Charles 21,304 Clinton 14,063 Marion 23,230 St. Charles 21,304 Cloe 10,292 McDonald 5,228 St. Louis 351,189 Cooper 20,692 Mercer 1,557 Stoddard 8,535 Crawford 7,982 Miller 6,616 Stone 3,253 Dade 8,633 Mississippi 4,982 Clinton 14,063 Marion 23,780 St. Crares 9,673 Douglass 3,315 Detti 1,607 Osage 10,793 Wright 5,604 Franklin 5,902 Nodaway 14,751 Webster 10,434 Gasconade 10,030 Oregon 3,287 Worth 5,004 Gentry 11,607 Osage 10,793 Wright 5,604 Gentry 11,607 Osage 10,793 Wright 5,604 Gentry 11,607 Osage 10,793 Wright 5,604		•
Andrew         15,137         Grundy         10,537         Permiscot         2,639           Atchison         8,440         Harrison         14,635         Perry         9,877           Audrain         12,307         Henry         17,401         Pettis         18,706           Barton         5,087         Holk         11,652         Pike         23,076           Bates         15,960         Howell         11,652         Pike         23,076           Benton         11,322         Howell         4,218         Polk         12,445           Bollinger         8,162         Iron         6,278         Pulsaki         4,714           Bone         20,765         Jackson         55,041         Putnam         11,217           Butlar         4,398         Jefferson         15,380         Randolph         15,300           Callaway         19,202         Knox         10,974         Reynolds         3,756           Cape         Girardeau         17,558         Lafayette         22,623         Saline         21,672           Carroll         17,446         Lawrence         13,067         Schuyler         8,820           Carroll         17,455	MISSOURIArea, 67,38	30 square miles.
Atchison         8,440 Harrison         14,635 Perry         9,877           Audrain         12,307 Henry         17,401 Pettis         18,706           Barry         10,373 Hickory         6,452 Phelps         10,506           Barton         5,087 Holt         11,652 Pike         22,076           Bates         15,960 Howard         17,233 Platte         17,352           Benton         11,322 Howell         4,218 Polk         12,455           Bollinger         8,162 Iron         6,278 Pulaski         4,714           Boone         20,765 Jackson         55,041 Putnam         11,217           Buchanan         35,109 Jasper         14,928 Ralls         10,610           Butler         4,239 Jefferson         15,380 Randolph         15,008           Caldwell         11,390         Johnson         24,648 Ray         18,700           Callaway         19,202 Knox         10,974 Reynolds         3,756           Camdem         6,108 Larlede         9,380 Ripley         3,175           Cape Girardeau         17,558 Lafayette         22,623 Saline         21,672           Carrer         1,455 Lewis         15,114 Scotland         10,670           Cass         19,296 Lincoln         15,960 Scott	Adair 11,448 Greene	. 21,549 Ozark 3,363
Audrain	Andrew 15,137 Grundy	. 10,567 Pemiscot 2,059
Barton	Atchison 8,440 Harrison	. 14,635 Perry 9,877
Barton	Augrain 12,307 Henry	6 450 Dholno 10 500
Bates	Burton 5 087 Holt	11 650 Dile 92 076
Bonton   11,322   Howell   4,218   Polk   12,445     Bolinger   8,162   Iron   6,278   Pulaski   4,714     Boone   20,765   Jackson   55,041   Pulaski   4,714     Buchanan   35,109   Jasper   14,928   Ralls   10,510     Butler   4,298   Jefferson   15,380   Randolph   15,908     Caldwell   11,390   Johnson   24,648   Ray   18,700     Callaway   19,202   Knox   10,974   Reynolds   3,756     Camdem   6,108   Laclede   9,380   Ripley   3,175     Cape Girardeau   17,558   Lafayette   22,623   Saline   21,672     Carroll   17,446   Lawrence   13,067   Schuyler   8,820     Carter   1,455   Lewis   15,114   Scotland   10,670     Cass   19,296   Lincoln   15,960   Scott   7,317     Cedar   0,474   Linn   15,900   Scott   7,317     Cedar   0,474   Linn   15,900   Scott   7,317     Cedar   0,474   Linn   15,900   Scott   7,317     Cedar   0,474   Macon   23,230   St. Charles   21,304     Clarke   13,667   Madison   5,849   St. Clare   6,742     Clay   15,564   Maries   5,916   Ste. Genevieve   8,384     Clinton   14,063   Marion   23,780   St. Francois   9,742     Cole   10,292   McDonald   5,226   St. Louis   351,189     Cooper   20,692   Mercer   11,557   Stodlard   8,535     Crawford   7,982   Miller   6,616   Stone   3,253     Dade   8,833   Mississippi   4,982   Sullivan   11,907     Daviess   14,410   Monroe   17,149   Toxas   9,618     De Kalb   9,858   Moniteau   11,375   Taney   4,407     Daviess   14,410   Monroe   17,149   Toxas   9,618     De Kalb   9,858   Mongan   8,434   Warren   9,673     Douglass   3,915   New Madrid   6,357   Washington   11,719     Dunklin   5,982   Nowton   12,821   Wayne   6,668     Franklin   30,098   Nodaway   14,751   Webster   10,434     Gasconade   10,093   Oregon   3,287   Worth   5,004     Gentry   11,607   Osage   10,793   Wright   5,684     Total   Total   Toxas   10,723   Toxas   10,723   Toxas   10,434     Gasconade   10,093   Oregon   3,287   Worth   5,684     Total   Toxas   10,721,295	Rates 15.960 Howard	17 933 Platto 17 359
Bollinger   S,162   Iron   G,278   Pulaski   4,714   Boone   20,765   Jackson   55,041   Putnam   11,217   Buchanan   35,109   Jasper   14,928   Ralls   10,510   Butler   4,298   Jefferson   15,380   Randolph   15,908   Caldwell   11,390   Johnson   24,648   Ray   18,700   Callaway   19,202   Knox   10,974   Reynolds   3,756   Camdem   6,108   Lac ede   0,380   Ripley   3,175   Cape Girardeau   17,558   Lafayette   22,623   Saline   21,672   Carroll   17,446   Lawrence   13,067   Schuyler   8,820   Carter   1,455   Lewis   15,114   Scotland   10,670   Cass   10,296   Lincoln   15,960   Scott   7,317   Cedar   0,474   Linn   15,900   Shannon   2,339   Chariton   19,   Livingston   16,730   Shelby   10,119   Christian   6,767   Macon   23,230   St. Charles   21,304   Clarke   13,667   Macison   5,849   St. Clare   6,742   Clay   15,564   Maries   5,916   Ste. Genevieve   8,324   Clinton   14,063   Marion   23,780   St. Louis   351,189   Cooper   20,692   Mercer   11,557   Stoddard   8,535   Crawford   7,982   Miller   6,616   Stone   3,253   Dade   8,583   Mississippi   4,982   Sullivan   11,907   Dallas   8,383   Moniteau   11,375   Taney   4,407   Daviess   14,410   Monroe   17,149   Texas   9,618   De Kalb   9,858   Montgomery   10,405   Vernon   11,247   Dent   6,357   Newton   12,821   Wesher   10,434   Gasconade   10,093   Gentry   11,697   Osage   10,793   Wright   5,684   Gentry   11,697   Osage   10,793   Wright   5,684   Gentry   11,697   Osage   10,793   Wright   5,684   Total   Total   1,721,295   Total   1,7	Benton 11.322 Howell	4.218 Polk
Boone	Bollinger 8.162 Iron	. 6.278 Pulaski 4.714
Buchanan   35,109   Jasper   14,928   Ralls   10,510	Boone 20,765 Jackson	. 55,041 Putnam
Caldwell         11,390 Johnson         24,646 Ray         18,700 Callaway         19,202 Knox         10,974 Reynolds         3,756 Camdem         6,108 Laclede         0,380 Ripley         3,175 Riple	Buchanan	. 14,928 Ralls 10,510
Callaway         19,202         Knox         10,974         Reynolds         3,756           Camdem         6,108         Laclede         9,380         Ripley         3,175           Cape Girardeau         17,558         Lafayette         22,623         Saline         21,672           Carroll         17,446         Lawrence         13,067         Schuyler         8,820           Carter         1,455         Lewis         15,114         Scotland         10,670           Cass         19,296         Lincoln         15,960         Scott         7,317           Cedar         474         Lin         15,960         Scott         7,317           Cedar         474         Lin         15,960         Scott         7,317           Cedar         474         Lin         15,960         Scott         7,317           Cedar         6,704         Macon         23,330         St. Charles         21,304           Christian         6,704         Macon         23,330         St. Charles         21,304           Clarke         13,667         Macion         23,480         St. Charles         21,304           Clay         15,564         Marion	Butler 4,298 Jefferson	. 15,380 Randolph 15,908
Camdem         6,108 Lacle de         9,380 Ripley         3,175           Cape Girardeau         17,558 Lafayette         22,623 Saline         21,672           Carroll         17,446 Lawrence         13,067 Schuyler         8,820           Carter         1,455 Lewis         15,114 Scotland         10,670           Cass         19,296 Lincoln         15,960 Scott         7,317           Cedar         474 Linn         15,960 Scott         7,317           Cedar         474 Macon         23,230 St. Charles         23,39           Chariton         19,~7 Madison         23,230 St. Charles         21,304           Clarke         13,667 Macon         23,230 St. Charles         21,304           Clarke         13,667 Madison         5,849 St. Clare         6,742           Clay         15,564 Maries         5,916 St. Cenevieve         8,364           Clinton         14,063 Marion         23,780 St. Charles         9,742           Cole         10,292 McDonald         5,226 St. Louis         9	Caldwell 11,390 Johnson	. 24,648 Ray 18,700
Cape Girardeau         17,558   Lafayette         22,623   Saline         21,672   Carrol         17,446   Lawrence         13,667   Schuyler         8,820   Schuyler         8,820   Carter         1,455   Lewis         15,114   Scotland         10,670   Cotas         19,296   Lincoln         15,960   Scott         7,317   Cotar         7,317   Cotar         7,317   Cotar         7,317   Cotar         15,960   Shannon         2,339   Chariton         10,670   Cotar         10,670   Cotar         10,670   Cotar         10,119   Cotar	Canaway	. 10,974   Keynolds 3,756
Carroll.       17,446 Lawrence       13,067 Schuyler       8,820         Carter       1,455 Lewis       15,114 Scotland       10,670         Cass       19,296 Lincoln       15,960 Scott       7,317         Cedar.       0,474 Linn       15,960 Scott       7,317         Cedar.       0,474 Linn       15,900 Shannon       2,339         Chariton       19, 1 Livingston       16,730 Shelby       10,119         Christian       6,707 Macon       23,230 St. Charles       21,304         Clarke       13,667 Madison       5,849 St. Clare       6,742         Clay       15,564 Maries       5,916 Ste. Genevieve       8,384         Clinton       14,063 Marion       23,780 St. Francois       9,742         Cole       10,292 McDonald       5,226 St. Louis       351,189         Cooper       20,692 Mercer       11,557 Stoddard       8,535         Crawford       7,982 Miller       6,616 Stone       3,253         Dade       8,683 Mississippi       4,982 Sullivan       11,907         Dallas       8,383 Moniteau       11,375 Taney       4,407         Det Kalb       9,858 Montgomery       10,405 Vernon       11,247         Dent       6,357 Morgan       8,434	Camachi 0,100 Lavi de	99 693 Galina 91 679
Carter         1,455   Lewis         15,114   Scotland         10,670           Cass         19,296   Lincoln         15,960   Scott         7,317           Cedar         0 474   Linn         15,900   Scott         7,317           Chariton         19,	Carroll 17.446 Lawrence	13.067 Schuvier 8.820
Cass         19,296         Lincoln         15,960         Scott         7,317           Cedar         0 474         Linn         15,900         Shannon         2,339           Chariton         19,	Carter 1.455 Lewis	. 15.114 Scotland 10.670
Cedar         6 474 Linn         15,900 Shannon         2,339 Chariton           Chariton         19,	Cass	. 15.960 Scott
Christian         6,707         Macon         23,230         St. Charles         21,304           Clarke         13,667         Madison         5,849         St. Clare         6,742           Clay         15,564         Maries         5,916         Ste. Genevieve         8,384           Clinton         14,063         Maries         5,916         Ste. Genevieve         8,384           Cole         10,292         McDonald         5,226         St. Louis         351,189           Cooper         20,692         Mercer         11,557         Stoddard         8,535           Crawford         7,982         Miller         6,616         Stone         3,253           Dade         8,833         Mississispipi         4,982         Sullivan         11,007           Daviess         14,410         Monroe         17,149         Texas         9,618           De Kalb         9,858         Montgomery         10,405         Vernon         11,247           Douglass         3,915         New Madrid         6,357         Washington         11,719           Dunklin         5,982         Nodaway         14,751         Webster         10,434           Gasconade         1	Cedar 0 474 Linn	. 15,900 Shannon 2,339
Clay       15,564       Maries       5,916       Ste. Genevieve       8,384         Clinton       14,063       Marion       23,780       St. Francois       9,742         Cole       10,292       McDonald       5,226       St. Louis       351,189         Cooper       20,692       Mercer       11,557       Stoddard       8,535         Crawford       7,982       Miller       6,616       Stone       3,253         Dade       8,683       Mississippi       4,982       Sullivan       11,007         Dallas       8,383       Moniteau       11,375       Taney       4,407         Daviess       14,410       Monroe       17,149       Texas       9,618         De Kalb       9,858       Montgomery       10,405       Vernon       11,247         Dent       6,357       Morgan       8,434       Warren       9,673         Douglass       3,915       New Madrid       6,357       Washington       11,719         Dunklin       5,982       Nodaway       14,751       Webster       10,434         Gasconade       10,093       Oregon       3,287       Worth       5,684         Total       11,721,29	Chariton 19, Livingston	. 16,730 Shelby 10,119
Clay       15,564       Maries       5,916       Ste. Genevieve       8,384         Clinton       14,063       Marion       23,780       St. Francois       9,742         Cole       10,292       McDonald       5,226       St. Louis       351,189         Cooper       20,692       Mercer       11,557       Stoddard       8,535         Crawford       7,982       Miller       6,616       Stone       3,253         Dade       8,683       Mississippi       4,982       Sullivan       11,007         Dallas       8,383       Moniteau       11,375       Taney       4,407         Daviess       14,410       Monroe       17,149       Texas       9,618         De Kalb       9,858       Montgomery       10,405       Vernon       11,247         Dent       6,357       Morgan       8,434       Warren       9,673         Douglass       3,915       New Madrid       6,357       Washington       11,719         Dunklin       5,982       Nodaway       14,751       Webster       10,434         Gasconade       10,093       Oregon       3,287       Worth       5,684         Total       11,721,29	Christian 6,707 Macon	. 23,230 St. Charles 21,304
Clinton         14,063         Marion         23,780         St. Francois         9,742           Cole         10,292         McDonald         5,226         St. Louis         351,189           Cooper         20,692         Mercer         11,557         Stoddard         8,535           Crawford         7,982         Miller         6,616         Stone         3,253           Dade         8,683         Miller         6,616         Stone         3,253           Dade         8,683         Mississippi         4,982         Sullivan         11,007           Dallas         8,383         Moniteau         11,375         Taney         4,407           Daviess         14,410         Monroe         17,149         Texas         9,618           De Kalb         9,858         Montgomery         10,405         Vernon         11,247           Dent         6,357         Morgan         8,434         Warren         9,673           Douglass         3,915         New Madrid         6,357         Washington         11,719           Dunklin         5,982         Nodaway         14,751         Webster         10,434           Gasconade         10,093         Oreg	Clarke 13,007 Madison	5,849 St. Clare 6,742
Cole         10,292         McDonald         5,226         St. Louis         351,189           Cooper         20,692         Mercer         11,557         Stoddard         8,535           Crawford         7,982         Miller         6,616         Stone         3,253           Dade         8,683         Mississippi         4,982         Sullivan         11,007           Dallas         8,383         Moniteau         11,375         Taney         4,407           Daviess         14,410         Monroe         17,149         Texas         9,618           De Kalb         9,858         Montgomery         10,405         Vernon         11,247           Dent         6,357         Morgan         8,434         Warren         9,673           Douglass         3,915         New Madrid         6,357         Washington         11,719           Dunklin         5,982         Newton         12,821         Wayne         6,068           Franklin         30,098         Nodaway         14,751         Webster         10,434           Gasconade         10,093         Oregon         3,287         Worth         5,684           Total         11,607         Osage <td>Clinton 74 063 Marion</td> <td>93 780 St Transois 0.749</td>	Clinton 74 063 Marion	93 780 St Transois 0.749
Cooper         20,692         Mercer         11,557         Stoddard         8,535           Crawford         7,982         Miller         6,616         Stone         3,253           Dade         8,683         Mississippi         4,982         Sullivan         11,907           Dallas         8,383         Moniteau         11,375         Taney         4,407           Daviess         14,410         Monroe         17,149         Texas         9,618           De Kalb         9,858         Montgomery         10,405         Vernon         11,247           Dent         6,357         Morgan         8,434         Warren         9,673           Douglass         3,915         New Madrid         6,357         Washington         11,719           Dunklin         5,982         Newton         12,821         Wayne         6,068           Franklin         30.098         Nodaway         14,751         Webster         10,434           Gasconade         10,093         Oregon         3,287         Worth         5,684           Total         10,793         Wright         5,684	Cole 10.292 McDonald	5.226 St. Louis
Crawford       7,982       Miller       6,616       Stone       3,253         Dade       8,683       Mississippi       4,982       Sullivan       11,007         Dallas       8,383       Moniteau       11,375       Taney       4,407         Daviess       14,410       Monroe       17,149       Texas       9,618         De Kalb       9,858       Montgomery       10,405       Vernon       11,247         Dent       6,357       Morgan       8,434       Warren       9,673         Douglass       3,915       New Madrid       6,357       Washington       11,719         Dunklin       5,982       Newton       12,821       Wayne       6,068         Franklin       30,098       Nodaway       14,751       Webster       10,434         Gasconade       10,093       Oregon       3,287       Worth       5,004         Gentry       11,607       Osage       10,793       Wright       5,684         Total       1,721,295	Cooper 20,692 Mercer	11.557 Stoddard 8.535
Dade       8,683       Mississippi       4,982       Sullivan       11,907         Dallas       8,383       Moniteau       11,375       Taney       4,407         Daviess       14,410       Monroe       17,149       Texas       9,618         De Kalb       9,858       Montgomery       10,405       Vernon       11,247         Dent       6,357       Morgan       8,434       Warren       9,673         Douglass       3,915       New Madrid       6,357       Washington       11,719         Dunklin       5,982       Newton       12,821       Wayne       6,068         Franklin       30.098       Nodaway       14,751       Webster       10,434         Gasconade       10,093       Oregon       3,287       Worth       5,004         Gentry       11,607       Osage       10,793       Wright       5,684         Total       1,721,295	Crawford 7,982 Miller	6,616 Stone 3,253
Daviess       14,410       Monroe       17,149       Texas       9,618         De Kalb       9,858       Montgomery       10,405       Vernon       11,247         Dent       6,357       Morgan       8,434       Warren       9,673         Douglass       3,915       New Madrid       6,357       Washington       11,719         Dunklin       5,982       Newton       12,821       Wayne       6,068         Franklin       30.098       Nodaway       14,751       Webster       10,434         Gasconade       10,093       Oregon       3,287       Worth       5,004         Gentry       11,607       Osage       10,793       Wright       5,684         Total       1,721,295	Dade	4,982 Sullivan 11,907
De Kalb       9,858       Montgomery       10,405       Vernon       11,247         Dent       6,357       Morgan       8,434       Warren       9,673         Douglass       3,915       New Madrid       6,357       Washington       11,719         Dunklin       5,982       Newton       12,821       Wayne       6,068         Franklin       30.098       Nodaway       14,751       Webster       10,434         Gasconade       10,093       Oregon       3,287       Worth       5,004         Gentry       11,607       Osage       10,793       Wright       5,684         Total       1,721,295		
Dent.       6,357       Morgan       8,434       Warren       9,673         Douglass       3,915       New Madrid       6,357       Washington       11,719         Dunklin       5,982       Newton       12,821       Wayne       6,068         Franklin       30.098       Nodaway       14,751       Webster       10,434         Gasconade       10,093       Oregon       3,287       Worth       5,004         Gentry       11,607       Osage       10,793       Wright       5,684         Total       1,721,295		
Douglass       3,915       New Madrid       6,357       Washington       11,719         Dunklin       5,982       Newton       12,821       Wayne       6,068         Franklin       30.098       Nodaway       14,751       Webster       10,434         Gasconade       10,093       Oregon       3,287       Worth       5,004         Gentry       11,607       Osage       10,793       Wright       5,684         Total       1,721,295		
Dunklin       5,982       Newton       12,821       Wayne       6,068         Franklin       30,098       Nodaway       14,751       Webster       10,434         Gasconade       10,093       Oregon       3,287       Worth       5,004         Gentry       11,607       Osage       10,793       Wright       5,684         Total       1,721,295		
Franklin       30.098 Nodaway       14,751 Webster       10,434         Gasconade       10,093 Oregon       3,287 Worth       5,004         Gentry       11,607 Osage       10,793 Wright       5,684         Total       1,721,295		
Gasconade       10,093 Oregon       3,287 Worth       5,004         Gentry       11,607 Osage       10,793 Wright       5,684         Total       1,721,295		
Gentry	Gasconade 10,093 Oregon	3,287 Worth 5,004
Total	Gentry 11,607 Osage	10,793: Wright 5,684
NEBRASKA—Area, 75,995 square miles.  Adams	Total	1,721,295
Adams	NEBRASKA-Area. 75.9	95 square miles.
	Adams 19 Blackbird	31 Buffalo

,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就会不是一个人的,我们也不会不会不会不会不会不 第一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就会不会一个人的,

Burt	2.847	Jackson		91	Sarpy	2,913
Butler		Jefferson .			Saunders	
Cass		Johnson		3,429	Seward	2,953
Cedar	1.032	Kearney		58	Stanton	636
Cheyenne	,	Lancaster.	••••	7.074	Taylor	97
Clay	,	L'Eau qui		961	Washington	# 450
Colfax	1 491	Lincoln	Commen	17	Wayna	$\begin{array}{c} 4,452 \\ 182 \end{array}$
	0 Ogs	Tyon	• • • • • • • •	70	Wayne	14. 104
Cuming Dakota	0.040	Lyon	• • • • • • • • • • • • • • • • • • • •	1 100	Webster	16
	1020	Madison	•••••	A 5 4 5 6 7 1	York	
Dawson	3 945	Merrick	• • • • • • • •		Unorganized North-	
Dixon	1,040	Monroe	• • • • • • • •		west Teerritory	52
Dodge	4,312	Nemaha	•••••	, ,	Unorganized Terri-	
Douglass		Nuckolls	•••••	•	tory west of Mad-	_
Fillmore					ison County	183
Franklin	1	Pawnee	• • • • • • • •		Winnebago Indian	
Gage	3,353	Pierce			Reservation	31
Grant	484	Platte		1,899	Pawnee Indian res-	
Hall	1,057	Polk		136	ervation	44
Hamilton	1301	Richardson	l	-9.7801		
Harrison	631	Saline		3,106		122,993
				, ,		,
NEVA	DA_	-Area.	112	ng O	uare miles.	
		-	•	U Sq	duro mirros.	
Churchill		Lander			Roop	
Douglas	-1.215	Lincoln		2,985	Storey	11,359
Elko	3,447	Lyon		1,837	Washoe	3,091
Esmeralda	1,553	Nye		1,087	White Pine	7,189
Humboldt		Ormsby		3,6681	Total	.42.491
	•	•				
				•		•
NEW HA	MPS	HIRE—	Area.	9.280	) square miles	
			•	-	) square miles	
Belknap	17,681	Grafton	· • • • • • • • • • • • • • • • • • • •	39,103	Rockingham	47,297
Belknap Carroll	17,681 17,332	Grafton Hillsboroug	gh	39,103 64,238	Rockingham Strafford	47,297 30,243
Belknap	17,681 17,332 27,265	Grafton Hillsboroug Merrimack	مبر gh	39,103 64,238 42,151	Rockingham Strafford Sullivan	47,297 30,243 18,058
Belknap Carroll	17,681 17,332 27,265	Grafton Hillsboroug Merrimack	مبر gh	39,103 64,238 42,151	Rockingham Strafford Sullivan	47,297 30,243 18,058
Belknap	17,681 17,332 27,265 14,932	Grafton Hillsboroug Merrimack	مبرgh Total	39,103 64,238 42,151	Rockingham Strafford Sullivan	47,297 30,243 18,058
Belknap	17,681 17,332 27,265 14,932	Grafton Hillsboroug Merrimack	مبرgh Total	39,103 64,238 42,151	Rockingham Strafford Sullivan	47,297 30,243 18,058
Belknap Carroll Cheshire Coos  NEW_J	17,681 17,332 27,265 14,932 ERSI	Grafton Hillsboroug Merrimack EY—Are	Total	39,103 64,238 42,151 <b>20</b> s	Rockingham Strafford Sullivan Square miles.	47,297 30,243 18,058 318,300
Belknap Carroll Cheshire Coos.  NEW J Atlantic	17,681 17,332 27,265 14,932 ERSI 14,093	Grafton Hillsboroug Merrimack <b>EY—Are</b> Gloucester	Total	39,103 64,238 42,151 20 21,562	Rockingham Strafford Sullivan Sullivan Gean.	47,297 30,243 18,058 318,300
Belknap Carroll Cheshire Coos  NEW_J Atlantic Bergen	17,681 17,332 27,265 14,932 ERSI 14,093 30,122	Grafton Hillsboroug Merrimack Gloucester Hudson	Totala, 3,3	39,103 64,238 42,151 20 21,562 29,067	Rockingham Strafford Sullivan Square miles. Ocean	47,297 30,243 18,058 318,300 13,628 46,416
Belknap Carroll Cheshire Coos  NEW J  Atlantic Bergen Burlington	17,681 17,332 27,265 14,932 ERSI 14,093 30,122 53,639	Grafton Hillsboroug Merrimack Gloucester Hudson Hunterdon	Totala, 3,3	39,103 64,238 42,151 20 21,562 29,067 36,963	Rockingham Strafford Sullivan  Quare miles. Ocean Passaic Salem	47,297 30,243 18,058 318,300 13,628 46,416 23,940
Belknap Carroll Cheshire Coos  NEW J  Atlantic Bergen Burlington Camden	17,681 17,332 27,265 14,932 ERSI 14,093 30,122 53,639 46,193	Grafton Hillsboroug Merrimack Gloucester Hudson Hunterdon Mercer	Totala, 3,3	39,103 64,238 42,151 20 21,562 29,067 36,963 46,386	Rockingham Strafford Sullivan  Quare miles. Ocean Passaic Salem Somerset	47,297 30,243 18,058 18,300 13,628 46,416 23,940 23,510
Belknap Carroll Cheshire Coos  NEW J  Atlantic Bergen Burlington Camden Cape May	17,681 17,332 27,265 14,932 ERSI 14,093 30,122 53,639 46,193 8,349	Grafton Hillsboroug Merrimack  Gloucester Hudson Hunterden Mercer Middlesex	Totala, 3,3	39,103 64,238 42,151 20 21,562 29,067 36,963 46,386 45,029	Rockingham Strafford Sullivan  Quare miles. Ocean. Passaic Salem Somerset Sussex.	47,297 30,243 18,058 18,300 13,628 46,416 23,940 23,510 23,168
Belknap Carroll. Cheshire. Coos.  NEW_J  Atlantic. Bergen Burlington Camden Cape May. Cumberland	17,681 17,332 27,265 14,932 ERSI 14,093 30,122 53,639 46,193 8,349 34,665	Grafton Hillsboroug Merrimack  Gloucester Hudson Hunterden Mercer Middlesex Monmouth	Total	39,103 64,238 42,151 20 21,562 29,067 36,963 46,386 45,029 46,195	Rockingham Strafford Sullivau  Quare miles. Ocean Passaic Salem Somerset Sussex. Union	47,297 30,243 18,058 318,300 13,628 46,416 23,940 23,510 23,168 41,859
Belknap Carroll. Cheshire. Coos.  NEW J  Atlantic Bergen Burlington Canden Cape May Cumberland Essex	17,681 17,332 27,265 14,932 ERSI 14,093 30,122 53,639 46,193 8,349 34,665 43,839	Grafton Hillsboroug Merrimack  Gloucester Hudson Hunterdon Mercer Middlesex Monmouth Morris	Total	39,103 64,238 42,151 20 21,562 29,067 36,963 46,386 46,386 46,195 46,195	Rockingham Strafford Sullivan  Quare miles. Ocean. Passaic Salem Somerset Sussex. Union Warren	47,297 30,243 18,058 18,300 13,628 46,416 23,940 23,510 23,168 41,859 34,336
Belknap Carroll. Cheshire. Coos.  NEW J  Atlantic Bergen Burlington Canden Cape May Cumberland Essex	17,681 17,332 27,265 14,932 ERSI 14,093 30,122 53,639 46,193 8,349 34,665 43,839	Grafton Hillsboroug Merrimack  Gloucester Hudson Hunterdon Mercer Middlesex Monmouth Morris	Total	39,103 64,238 42,151 20 21,562 29,067 36,963 46,386 46,386 46,195 46,195	Rockingham Strafford Sullivau  Quare miles. Ocean Passaic Salem Somerset Sussex. Union	47,297 30,243 18,058 18,300 13,628 46,416 23,940 23,510 23,168 41,859 34,336
Carroll. Cheshire. Coos.  NEW_J  Atlantic. Bergen Burlington Canden Cape May. Cumberland Essex.	17,681 17,332 27,265 14,932 14,093 30,122 53,639 46,193 8,349 34,665 43,839 otal	Grafton Hillsboroug Merrimack  Gloucester Hudson Hunterdon Mercer Middlesex Monmouth Morris	Total	39,103 64,238 42,151 20 21,562 29,067 36,963 46,386 45,029 46,195 46,195 43,137	Rockingham Strafford Sullivan Square miles. Ocean Passaic Salem Somerset Sussex Union Warren	47,297 30,243 18,058 18,300 13,628 46,416 23,940 23,510 23,168 41,859 34,336
Belknap Carroll. Cheshire. Coos.  NEW_J  Atlantic. Bergen Burlington Camden Cape May. Cumberland Essex.  NEW Y	17,681 17,332 27,265 14,932 14,093 30,122 53,639 46,193 8,349 34,665 43,839 otal	Grafton Hillsboroug Merrimack  EY—Are Gloucester Hudson Hunterden Mercer Middlesex Monmouth Morris —Area,	Total	39,103 64,238 42,151 20 21,562 29,067 36,963 46,386 45,029 46,195 46,195 43,137	Rockingham Strafford Sullivan  Quare miles. Ocean Passaic Salem Somerset Sussex Union Warren	47,297 30,243 18,058 18,300 13,628 46,416 23,940 23,510 23,168 41,859 34,336 06,096
Belknap Carroll. Cheshire. Coos.  NEW J  Atlantic. Bergen Burlington Camden Cape May. Cumberland Essex.  NEW Y  Albany	17,681 17,332 27,265 14,932 14,093 30,122 53,639 46,193 8,349 34,665 43,839 otal	Grafton Hillsboroug Merrimack  Gloucester Hudson Hunterden Mercer Middlesex Monmouth Morris  —Area, Clinton	Total	39,103 64,238 42,151 20 21,562 29,067 36,963 46,386 46,386 45,029 46,195 43,137 43,137	Rockingham Strafford Sullivan  Quare miles. Ocean Passaic Salem Somerset Sussex Union Warren  1are miles. Fulton	47,297 30,243 18,058 18,300 13,628 46,416 23,940 23,510 23,168 41,859 34,336 06,096
Belknap Carroll. Cheshire. Coos.  NEW J  Atlantic. Bergen Burlington Camden Cape May Cumberland Essex.  NEW Y  Albaby Allegany	17,681 17,332 27,265 14,932 14,093 30,122 53,639 46,193 8,349 34,665 43,839 otal ORK- 33,052 40,814	Grafton Hillsboroug Merrimack  Gloucester Hudson Hunterden Mercer Middlesex Monmouth Morris Clinton Columbia	Total	39,103 64,238 42,151 20 21,562 29,067 36,963 46,386 45,029 46,195 43,137 43,137 43,137 43,137	Rockingham Strafford Sullivan  Quare miles. Ocean Passaic Salem Somerset Sussex Union Warren  Yarren  Gulton Genesee	47,297 30,243 18,058 18,300 13,628 46,416 23,940 23,510 23,168 41,859 34,336 06,096
Belknap Carroll. Cheshire. Coos.  NEW J  Atlantic. Bergen Burlington Camden Cape May Cumberland Essex.  NEW Y  Albaby Allegany	17,681 17,332 27,265 14,932 14,093 30,122 53,639 46,193 8,349 34,665 43,839 otal ORK- 33,052 40,814	Grafton Hillsboroug Merrimack  Gloucester Hudson Hunterden Mercer Middlesex Monmouth Morris Clinton Columbia	Total	39,103 64,238 42,151 20 21,562 29,067 36,963 46,386 45,029 46,195 43,137 43,137 43,137 43,137	Rockingham Strafford Sullivan  Quare miles. Ocean Passaic Salem Somerset Sussex Union Warren  Yarren  Gulton Genesee	47,297 30,243 18,058 18,300 13,628 46,416 23,940 23,510 23,168 41,859 34,336 06,096
Belknap Carroll Cheshire Coos.  NEW_J  Atlantic Bergen Burlington Camden Cape May Cumberland Essex  NEW Y  Albany Allegany Broome	17,681 17,332 27,265 14,932 14,093 30,122 53,639 46,193 8,349 34,665 43,839 34,665 43,839 34,665 43,839 34,665 43,839	Grafton Hillsboroug Merrimack  Gloucester Hudson Hunterdon Mercer Middlesex Monmouth Morris  —Area, Clinton Columbia	Total	39,103 64,238 42,151 20 21,562 29,067 36,963 46,386 45,029 46,195 46,195 43,137 43,137 43,137	Rockingham Strafford Sullivan  Quare miles. Ocean Passaic Salem Somerset Sussex Union Warren  1are miles. Fulton Genesee Arcene	47,297 30,243 18,058 18,300 13,628 46,416 23,940 23,510 23,168 41,859 34,336 06,096 27,064 31,832
Belknap Carroll Cheshire Coos  NEW J  Atlantic Bergen Burlington Camden Cape May Cumberland Essex  NEW Y  Albany Allegany Broome Cattaraugus	17,681 17,332 27,265 14,932 14,093 30,122 53,639 46,193 8,349 34,665 43,839 otal ORK- 33,052 40,814 44,103 43,909	Grafton Hillsboroug Merrimack  GY—Are Gloucester Hudson Hunterdon Mercer Middlesex Monmouth Morris —Area, Clinton Columbia Cortland Delaware	Total	39,103 64,238 42,151 20 21,562 29,067 36,963 46,386 46,386 46,195 46,195 43,137 43,137 43,137 43,137 43,137 43,137	Rockingham Strafford Sullivan  Quare miles. Ocean Passaic Salem Somerset Sussex. Union Warren  Pare miles. Fulton Genesee Tamilton	47,297 30,243 18,058 18,058 318,300 13,628 46,416 23,940 23,510 23,168 41,859 34,336 06,096 27,064 31,606 31,832 2,960
Belknap Carroll Cheshire Coos  NEW J  Atlantic Bergen Burlington Camden Cape May Cumberland Essex  NEW Y  Albany Allegany Broome Cattaraugus Cayuga	17,681 17,332 27,265 14,932 14,093 30,122 53,639 46,193 8,349 34,665 43,839 otal ORK- 33,052 40,814 44,103 44,103 44,103 59,550	Grafton Hillsboroug Merrimack  EY—Are Gloucester Hudson Hunterdon Mercer Middlesex Monmouth Morris  —Area, Clinton Columbia Cortland Delaware Dutchess	Total	39,103 64,238 42,151 20 21,562 29,067 36,963 46,386 45,029 46,195 43,137 43,137 43,137 43,137 47,041 47,041 42,972 174,041	Rockingham Strafford Sullivan  Square miles. Ocean Passaic Salem Somerset Sussex Union Warren  1are miles. Fulton Genesee Freene Hamilton Jerkimer	47,297 30,243 18,058 18,300 13,628 46,416 23,940 23,168 41,859 34,336 06,096 27,064 31,606 31,606 31,832 2,960 39,929
Belknap Carroll Cheshire Coos  NEW J  Atlantic Bergen Burlington Camden Cape May Cumberland Essex  NEW Y  Albany Allegany Broome Cattaraugus Chautauqua Chautauqua	17,681 17,332 27,265 14,932 14,932 14,093 30,122 53,639 46,193 8,349 34,665 43,839 otal ORK- 33,052 40,814 44,103 44,103 43,909 159,550 159,550 159,327	Grafton Hillsboroug Merrimack  EY—Are Gloucester Hudson Hunterdon Mercer Middlesex Monmouth Morris  —Area, Clinton Columbia Cortland Delaware Dutchess Erie	Total	39,103 64,238 42,151 20 21,562 29,067 36,963 46,386 46,386 46,195 48,137 43,137 43,137 47,041 47,041 47,041 47,041 47,041 47,041 47,041 47,041 47,041 47,041 47,041 47,041 47,041 47,041	Rockingham Strafford Sullivan  Quare miles. Ocean Passaic Salem Somerset Sussex Union Warren  Pare miles. Fulton Jenesee Jamilton Jerkimer Jefferson	47,297 30,243 18,058 18,058 318,300 13,628 46,416 23,940 23,168 41,859 34,336 06,096 27,064 31,606 31,832 2,960 39,929 65,415
Belknap Carroll Cheshire Coos  NEW J  Atlantic Bergen Burlington Camden Cape May Cumberland Essex  NEW Y  Albany Allegany Broome Cattaraugus Chautauqua Chemung	17,681 17,332 27,265 14,932 14,932 14,093 30,122 53,639 46,193 8,349 34,665 43,839 543	Grafton Hillsboroug Merrimack  EY—Are Gloucester Hudson Hunterdon Mercer Middlesex Monmouth Morris  —Area, Clinton Columbia Cortland Delaware Dutchess Erie Essex	Total	39,103 64,238 42,151 20 21,562 29,067 36,963 46,386 46,386 46,195 46,195 46,195 47,041 47,041 47,041 47,041 47,041 47,041 47,041 47,041 47,041 47,041 47,041 47,041 47,041 42,972 42,972 42,972 42,972 42,972 42,972 42,972 42,972 42,972 42,041	Rockingham Strafford Sullivan  Quare miles. Ocean. Passaic Salem Somerset Sussex. Union Varren  Yarren  Genesee Areene Hamilton Herkimer Jefferson Kings.	47,297 30,243 18,058 18,058 18,300 13,628 46,416 23,940 23,510 23,168 41,859 34,336 06,096 27,064 31,606 31,832 2,960 31,921
Belknap Carroll Cheshire Coos  NEW J  Atlantic Bergen Burlington Camden Cape May Cumberland Essex  NEW Y  Albany Allegany Broome Cattaraugus Chautauqua Chautauqua	17,681 17,332 27,265 14,932 14,932 14,093 30,122 53,639 46,193 8,349 34,665 43,839 543	Grafton Hillsboroug Merrimack  EY—Are Gloucester Hudson Hunterdon Mercer Middlesex Monmouth Morris  —Area, Clinton Columbia Cortland Delaware Dutchess Erie Essex	Total	39,103 64,238 42,151 20 21,562 29,067 36,963 46,386 46,386 46,195 46,195 46,195 47,041 47,041 47,041 47,041 47,041 47,041 47,041 47,041 47,041 47,041 47,041 47,041 47,041 42,972 42,972 42,972 42,972 42,972 42,972 42,972 42,972 42,972 42,041	Rockingham Strafford Sullivan  Quare miles. Ocean. Passaic Salem Somerset Sussex. Union Varren  Yarren  Genesee Areene Hamilton Herkimer Jefferson Kings.	47,297 30,243 18,058 18,058 18,300 13,628 46,416 23,940 23,510 23,168 41,859 34,336 06,096 27,064 31,606 31,832 2,960 31,921

Madison Monroe Monroe Montgomery New York Niagara Oneida Oneida Onondaga	38,309 Otsego 43,522 Putnam 17,868 Queens 34,457 Rensselaer 42,292 Richmond 50,437 Rockland 10,008 Saratoga 04,183 Schenectady	. 15,420 Suffolk . 73,803 Sullivan . 99,540 Tioga . 33,029 Tompkins . 25,213 Ulster . 51,529 Warren . 21,347 Washington	46,924 $34,550$ $30,572$ $33,178$ $84,075$ $22,592$ $49,568$
Orange Orleans Oswego NORTH OA Alamance	45,108 Schoharie	18,989 Westchester 27,823 Wyoming 67,717 Yates 50,704 square n 22,970 Northampton	131,348 29,164 19,595 4,382,759 ailes. 14,749
Alleghany. Anson Ashe. Beaufort. Bertie Bladen Brunswick Buncombe. Burks	3,691 Franklin 12,428 Gaston 9,572 Gates 13,011 Granville 12,950 Greene 12,831 Guilford 7,754 Halifax 15,412 Harnnett 9,777 Haywood	14,134 Orange 12,602 Pasquotank 7,724 Perquimans 24,831 Person 8,687 Pitt 21,736 Polk 20,408 Randolph 8,895 Richmond 7,921 Robeson	17,507 $8,131$ $7,945$ $11,170$ $17,276$ $4,319$ $17,551$ $12,882$ $16,262$
Caldwell Camden Carteret Caswell Catawba Chatham Cherokee Chowan	9,010 Tredell 16,081 Jackson 10,984 Johnston 19,723 Jones 8,080 Lenoir 6,450 Lincoln	9,273 Rowan 6,445 Rutherford 16,931 Sampson 6,683 Stanley 16,897 Stokes 5,002 Surry 10,434 Transylvania 9,573 Tyrrell	$egin{array}{lll} & & 16,810 \ & 13,121 \ & 16,436 \ & 8,315 \ & 11,208 \ & 11,252 \ & 3,536 \ & 4,173 \end{array}$
Cleaveland Columbus Craven Cumberland Currituck Dare Davidson Davie	2,461 Macon 12,696 Madison 8,474 Martin 20,516 McDowell 17,035 Mecklenburg 5,131 Mitchell 2,778 Montgomery 17,414 Moore 9,620 Nash 15,542 New Hanover	8,192 Wake 9,647 Warren 7,592 Washington 24,299 Watauga 4,705 Wayne 7,487 Wilkes 12,040 Wilson 11,077 Yadkin	35,017 $17,768$ $6,516$ $5,287$ $18,144$ $15,539$ $12,258$ $10,697$
AdamsAllenAshlandAshtabulaAthens	IIO—Area, 39,964 20,750 Brown 23,623 Butler 21,933 Carroll 32,517 Champaign 23,768 Clark 20,041 Clermont 39,714 Clinton	4 square miles 30,802 Columbiana 39,912 Coshocton 14,491 Crawford 24,188 Cuyahoga 32,070 Darke	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

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# — Erie 28,188	Licking	35,7561	Portage	24,584
Fairfield 31,138	Logan	23,028	Preble	21,809
Fayette 17,170	Lorain	30,308	Putnam	17.081 -
Franklin 63,019	Lucas	46,722	Richland	32,516
- Fulton 17,789	Madison	15,633	Ross	37.097
Gallia 25,545	Mahoning	31,001	Sandusky	25,503
Geauga 14,190	Marion	16.184	Scioto	29,302
Greene 28,038	Medina	20,092	Seneca	30.827-
Guernsey 23,838				
Hamilton 260,370	Mercer	17,254	Stark	52.508
— Hancock 23,847	Miami	32,740	Summit	34.674-
— Hardin 18,714				
Harrison 18,682				
Heury 14,028	Morgan	20, 263	Inion	18 790
Highland 29,133	Morrow	10 600	Von Wort	15 000
Hocking 17,925	Muelinaum	44 006	Trinton	15,020
Holmes 18,177	Mople	10 040	Warran	00,021
Homes	Ottown	19 004	Warren	40,009
- Huron 28,532 Jackson 21,759	Davidina	10,002	Assumbton	40,000
Jackson	PamaingX	10,042	Wayne	30,110 -
Jefferson 29,188	Perry	18,400	Williams	20,991 —
Knox 26,333	Pickaway	24,875	Wood	24,596
Lake	Pike	15,4471	Wyandot	18,553
Lawrence 31,380	Total			665,260
	A 300 000	<b>3</b>	• • • • • • • • • • • • • • • • • • • •	•
OKEGON	Area, 102,606	o adi	lare miles.	
Baker 2,804	Grant	2,251	Polk	4,701
Benton 4,584	Jackson	4,778	Tillamook	408
Clackamas 5,993	Josephine	1,204	Umatilla	2,916
Clatsop 1,255	Lane	6,426	Union	2,552
Columbia 863	Linn	8,717	Wasco	2,509
Coos	Marion	9,965	Washington	4,261
Curry 504	Multnomah	11.510	Yam Hill	5,012
Douglas 6,066	'L'otal		• • • • • • • • • • • • • • • • • • • •	.90.923
				•
PENNSYLVA	NIA—Area, 46	3,000	square miles	3.
Adams 30,315				
Alleghany262,204				
Armstrong 43,382	Delaware	39,403	Miffin	17,508
Beaver 36,148	Elk	8,488	Monroe	18.362
Bedford 29,635	Erie	65,973	Montgomery	81,612
Berks106,701	Favette	49 284	Montour .	15,944
Blair	Forest	4 010	Northampton	61 439
Bradford 53,204	Franklin	AK ORK	Northumharland	41 .144
Bucks 64,336	Fulton	9 66U	Parro	95 447
Butler 36,510	Greens	95 227	Philadelphia	20,331 874 000
Dunter 90,010	Huntingdon	91 051	Timodorbing	0 400
Cambria 36,569 Cameron 4,273	Tudione	00,401	Dottom	0,%()) 11 00%
	Toffordan	01,080	Color	44,200 116 400
Carbon 28,144	Tuninio	21,000	Schuykill	15 600
Centre 34,418	Juliuu	11,030	Suyuer	10,000
Chester 77,805				
Clarion 26,537	Lawrence	27,298	P.dinvan	6,191
Clearfield 25,741	Lepanon	34,096	Busquehanna	37,523
Olinton 23,211	Lenigh	56,796	Tioga	35,097
Columbia 28,766				
Crawford 63,832	T.vcomino	A7 6961	Vanango	47 Q95
· · · · · · · · · · · · · · · · · ·	micomme	#1,040	Action Rossess	***
	mycoming	41,020	A ottomBo	21,020

Warren       23,897   Wayne       33,188   Wyoming       14,585         Washington       48,483   Westmoreland       58,719   York       76,134         Total       3,521,791	
RHODE ISLAND—Area, 1,306 square miles.  Bristol	
SOUTH CAROLINA—Area, 29,385 square miles.         Abbeville       31,129 Fairfield       19,888 Newberry       20,775         Anderson       24,049 Georgetown       16,161 Oconee       10,536         Barr well       35,724 Greenville       22,262 Orangeburg       16,865         Beaufort       34,359 Horry       10,721 Pickens       10,269         Charleston       88,863 Kershaw       11,754 Richland       23,025         Chester       18,805 Lancaster       12,087 Spartanburg       25,784	
Chesterfield       10,584       Laurens       22,536       Sumter       25,268         Clarendon       14,038       Lexington       12,988       Union       19,248         Colleton       25,410       Marion       22,160       Williamsburg       15,489         Darlington       26,243       Marlborough       11,814       York       24,286         Edgefield       42,486       Total       705,606         TENNESSEE—Area, 45,600       square       miles.	
Anderson       8,704   Hancock       7,148   Morgan       2,969         Bedford       24,333   Hardeman       18,074   Obion       15,584         Benton       8,234   Hardin       11,768   Overton       11,297         Bledsoe       4,870   Hawkins       15,837   Perry       6,925         Blount       14,237   Haywood       25,094   Polk       7,369         Bradley       11,652   Henderson       14,217   Putnam       8,698         Campbell       7,445   Henry       20,380   Rhea       5,538         Cannon       10,502   Hickman       9,856   Roane       15,622         Carroll       19,447   Humphreys       9,326   Robertson       16,166         Carter       7,909   Jackson       12,583   Rutherford       33,289         Cheatham       6,678   Jefferson       19,476   Scott       4,054         Claiborne       9,321   Johnson       5,852   Sequatchie       2,335         Cocke       12,458   Knox       28,990   Sevier       11,028         Coffee       10,237   Lake       2,428   Shelby       76,378         Cumberland       3,461   Lauderdale       10,838   Smith       15,994	
Davidson       62,897       Lawrence       7,601       Stewart       12,019         Decatur       7,772       Lewis       1,986       Sullivan       13,136         De Kalb       11,425       Lincoln       28,050       Sumner       23,711         Dickson       9,340       Macon       6,633       Tipton       14,884         Dyer       13,706       Madison       23,480       Union       7,605         Fayette       26,145       Marion       6,841       Van Buren       2,725         Fentress       4,717       Marshall       16,207       Warren       12,714         Franklin       14,970       Maury       36,289       Washington       16,317         Gibson       25,666       McMinn       13,969       Wayne       10,209         Giles       32,413       McNairy       12,726       Weakley       20,755         Grainger       12,421       Meigs       4,511       White       9,375         Greene       21,668       Monroe       12,589       Williamson       25,851         Hamilton       17,241       Total       1,258,520	
TEXAS—Area, 237,504 square miles.  Anderson	

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Bee				Milam 8,984
Bell	9,771	Grimes	13,218	Montague 890
Bexar				Montgomery 6,483
Bexar District	1.077	Hamilton	733	Nacogdoches 9,614
Blanco	1.187	Hardin	1.460	Navarro 8,879
Bosque		Harris	17 375	Newton 2,187
Bowle			19 941	Neuces 3,975
Brazoria		Hays		Orange 1,255
<u> </u>		Henderson		Panola 10,119
Brazos	0,200 E44	Hidelacteon	0,100	1
Brown	0.070	Hidalgo	2,001	Parker 4,186
Burleson		Hill	-	Polk 8,707
Burnet	3,000	Hood	2,080	Presidio 1,636
Caldwell	6,072	Hopkina	12,601	Red River 10,653
Calhoun	3,443	Houston	8,147	Refugio 2,324
Cameron			10,291	Robertson 9,990
		Jack		Rusk 16,916
Cherekee	. 11,079	Jackson	2,278	Sabine 3,256
		Jasper		San Augustine 4,196
Collin	. 14,013	Jefferson	1,906	San Patricio 602
Colorado	8.326	Johnson	4,923	San Saba 1,425
Comal		Karnes	1,705	Shackle/ord 455
Comanche	1.001	Kaufman	6.895	Shelby 5,732
Cook	5.915	Kendall	1.536	Smith 16,532
		Kerr		Starr 4,154
		Kimble		Stephens 330
Davis		Kinney		Tarrant 5,788
Demmit	100	Tamer		Titus 11,339
Denton		<i>y</i> ——		Travis 13,153
De Witt	U 113	Lampasas	•	Trinity 4,141
Duval	1 000	La Salle		Tyle: 5,010
Eastland	, 1,000	Lavaca	. 0,100	Urshur 12,039
Tritte	, 00	Leon	4 414	Uvalde851
Ellis	. 1,012	Limestone		Van Zandt 6,494
El Paso	. 5.071			.   VIX.LL
Ensinal	407	•	ORO	Wistowie 4 960
Time 43:	. 427	Live Oak	. 852	Victoria 4,860
Erath	. 427 . 1,801	Live Oak	. 1,379	Walker 9,776
Erath Falls	. 427 . 1,801 . 9,851	Live Oak Llano Madison	. 1,379 . 4,061	Walker 9,776 Washington 23,104
Erath Falls Fannin	. 1,801 . 9,851 . 13,207	Live Oak Llano Madison Marion	852 1,379 4,061 8,562	Victoria       4,860         Walker       9,776         Washington       23,104         Webb       2,635
Erath Falls Fannin Fayette	. 1,801 . 9,851 . 13,207 . 16,869	Live Oak Llano Madison Marion Mason	852 1,379 4,061 8,562 678	Victoria       4,860         Walker       9,776         Washington       23,104         Webb       2,635         Wharton       3,426
Erath Falls Fannin Fayette Fort Bend	427 1,801 9,851 13,207 16,863 7,114	Live Oak Llano Madison Marion Mason Matagorda	852 1,379 4,061 8,562 678 3,377	Victoria       4,860         Walker       9,776         Washington       23,104         Webb       2,615         Wharton       3,426         Williamson       6,366
Erath Falls Fannin Fayette Fort Bend. Freestone	. 1,801 . 9,851 . 13,207 . 16,863 . 7,114 . 8,139	Live Oak Llano Madison Marion Mason Matagorda Maverick	952 1,379 4,061 8,562 678 3,377 1,951	Victoria       4,860         Walker       9,776         Washington       23,104         Webb       2,635         Wharton       3,426         Williamson       6,366         Wilson       2,556
Falls Fannin Fayette Fort Bend. Freestone Frio	. 1,801 . 9,851 . 13,207 . 16,869 . 7,114 . 8,139 . 309	Live Oak Llano Madison Marion Mason Matagorda Mategorda McCulloch	1,979 4,061 8,562 678 3,377 1,951	Victoria       4,860         Walker       9,776         Washington       23,104         Webb       2,635         Wharton       3,426         Williamson       6,366         Wilson       2,556         Wise       1,450
Falls Fannin Fayette Fort Bend. Freestone Frio Galveston	. 1,801 . 9,851 . 13,207 . 16,869 . 7,114 . 8,139 . 309	Live Oak Llano Madison Marion Mason Matagorda Maverick McCulloch McLennan	1,979 4,061 8,562 678 3,377 1,951 179	Victoria       4,860         Walker       9,776         Washington       23,104         Webb       2,635         Wharton       3,426         Williamson       6,366         Wilson       2,556         Wise       1,450         Wood       - 6,894
Erath Falls Fannin Fayette Fort Bend. Freestone Frio Galveston Gillespie	. 427 . 1,801 . 9,851 . 13,207 . 16,863 . 7,114 . 8,139 . 309 . 15,290 . 3,566	Live Oak Llano Madison Marion Mason Matagorda Maverick McCulloch McLennan McMullen	1,379 4,061 8,562 678 3,377 1,951 179 13,500	Victoria       4,860         Walker       9,776         Washington       23,104         Webb       2,635         Wharton       3,426         Williamson       6,366         Wilson       2,556         Wise       1,450         Wood       - 6,894         Young       135
Erath Falls Fannin Fayette Fort Bend. Freestone Frio Galveston Gillespie Goliad	. 427 . 1,801 . 9,851 . 13,207 . 16,869 . 7,114 . 8,139 . 309 . 15,290 . 3,566 . 3,628	Live Oak Llano Madison Marion Masson Matagorda Maverick McCulloch McLennan McMullen Medina	1,379 4,061 8,562 678 3,377 1,951 179 13,500 230	Victoria       4,860         Walker       9,776         Washington       23,104         Webb       2,635         Wharton       3,426         Williamson       6,366         Wilson       2,556         Wise       1,450         Wood       -6,894         Young       135         Zapata       1,488
Erath Falls Fannin Fayette Fort Bend. Freestone Frio Galveston Gillespie Goliad	. 427 . 1,801 . 9,851 . 13,207 . 16,869 . 7,114 . 8,139 . 309 . 15,290 . 3,566 . 3,628	Live Oak Llano Madison Marion Masson Matagorda Maverick McCulloch McLennan McMullen Medina	1,379 4,061 8,562 678 3,377 1,951 179 13,500 230	Victoria       4,860         Walker       9,776         Washington       23,104         Webb       2,635         Wharton       3,426         Williamson       6,366         Wilson       2,556         Wise       1,450         Wood       -6,894         Young       135         Zapata       1,488
Erath Falls Fannin Fayette Fort Bend. Freestone Frio Galveston Gillespie Goliad	427 1,801 9,851 13,207 16,863 7,114 8,139 3,566 3,628 8,951	Live Oak Llano Madison Marion Mason Matagorda Maverick McCulloch McLennan McMullen Medina Menard	1,979 4,061 8,562 678 3,377 1,951 179 13,500 230 2,078	Victoria       4,860         Walker       9,776         Washington       23,104         Webb       2,615         Wharton       3,426         Williamson       6,366         Wilson       2,556         Wise       1,450         Wood       - 6,894         Young       135
Falls Fannin Fayette Fort Bend Freestone Frio Galveston Gillespie Goliad Gonzales	427 1,801 9,851 13,207 16,863 7,114 8,139 3,566 3,628 8,951 To	Live Oak Llano Madison Marion Mason Matagorda Maverick McCulloch McLennan McMullen Medina Menard	952 1,379 4,061 8,562 678 3,377 1,951 179 13,500 230 2,078	Victoria       4,860         Walker       9,776         Washington       23,104         Webb       2,635         Wharton       3,426         Williamson       6,366         Wilson       2,556         Wise       1,450         Wood       -6,894         Young       135         Zapata       1,488         Zavala       133         818,579
Falls Fannin Fayette Fort Bend. Freestone Frio Galveston Gillespie Goliad Gonzales.  VER	1,801 9,851 13,207 16,863 7,114 8,139 15,290 3,566 3,628 8,951 To	Live Oak Llano Madison Marion Mason Matagorda Maverick McCulloch McLennan McMullen Medina Menard al	1,951 1,951 1,951 1,951 13,500 2,078 667	Victoria
Erath Falls Fannin Fayette Fort Bend. Freestone Frio Galveston Gillespie Goliad Gonzales  VER Addison	1,801 9,851 13,207 16,869 7,114 8,139 15,290 3,566 3,628 8,951 To	Live Oak Llano Madison Marion Mason Mason Matagorda Maverick McCulloch McCulloch McLennan McMullen Medina Menard al Franklin	1,951 1,951 1,951 1,951 13,500 2,078 667	Victoria
Erath Falls Fannin Fayette Fort Bend. Freestone Frio Galveston Gillespie Goliad Gonzales  VER Addison Bennington	1,801 9,851 13,207 16,869 7,114 8,139 3,566 3,628 8,951 To: MON	Live Oak Llano Madison Marion Mason Matagorda Maverick McCulloch McLennan McMullen Medina Menard al  -Area, 10,2 Franklin Grand Isle	1,951 1,951 1,951 1,951 13,500 2,078 2,078 667 4,089	Victoria
Erath Falls Fannin Fayette Fort Bend Freestone Frio Galveston Gillespie Goliad Gonzales  VER Addison Bennington Caledonia	1,801 9,851 13,207 16,863 7,114 8,139 3,566 3,628 8,951 To: MON: 23,484 21,325	Live Oak Llano Madison Marion Mason Matagorda Maverick McCulloch McCulloch McLennan McMullen Medina Menard al  C—Area, 10,2 Franklin Grand Isle Lamolle	1,951 1,951 1,951 1,951 13,500 2,078 667 12,449 1,081 1,081	Victoria
Erath Falls Fannin Fayette Fort Bend. Freestone Frio Galveston Gillespie Goliad Gonzales  VER Addison Bennington Caledonia Chittenden	1,801 9,851 13,207 16,863 7,114 8,139 3,566 3,628 8,951 To MON 23,484 21,325 36,486	Live Oak Llano Madison Marion Mason Mason Matagorda Maverick McCulloch McLennan McMullen Medina Menard al Franklin Grand Isle Lamoille Orange	1,959 1,979 4,061 8,562 3,377 1,951 179 13,500 2,078 667 4,089 4,089 12,449 23,090	Victoria
Erath Falls Fannin Fayette Fort Bend. Freestone Frio Galveston Gillespie Goliad Gonzales  VER Addison Bennington Caledonia Chittenden	1,801 9,851 13,207 16,863 7,114 8,139 3,566 3,628 8,951 To MON 23,484 21,325 36,486	Live Oak Llano Madison Marion Mason Mason Matagorda Maverick McCulloch McLennan McMullen Medina Menard al Franklin Grand Isle Lamoille Orange	1,959 1,979 4,061 8,562 3,377 1,951 179 13,500 2,078 667 4,089 4,089 12,449 23,090	Victoria

VIRGINIA-Aera, 38,352 square miles.
Accomack 20,409 Frederick 16,596 Nottoway 9,29
Albemarle 27,544 Giles 5,875 Orange 10,396
Alexandria 16,755 Gloucester 10,211 Page 8,463
Alleghany 3,674 Goochland 10,313 Patrick 10,163
Amelia
Amherst
Appointation
Augusta
Bath
Bedford
Bland 4,000 Henry 12,303 Pulaski 6,538
Botetourt
Brunswick 13,427 Isle of Wight 8,320 Richmond 6,503
Buchanan 3,777 James City 4,425 Roanoke 9,350
Buckingham 13,371 King and Queen 9,709 Rockbridge 16,058
Campbell
Caroline 15,128 King William 7,515 Russell 11,103
Carroll 9,147 Lancaster 5,355 Scott 13,036
Charles City 4,975 Lee 13,268 Shenandoah
Charlotte 14,513 London 20,929 Smyth 8,898
Chesterfield 18,470 Louisa 16,332 Southampton 12,285
Clarke 6,670 Lunenburg 10,403 Spottsylvania 11,728
Craig
Culpepper 12,227 Matthews 6,200 Surry 5,585
Cumberland 8,142 Mecklenburg 21,318 Sussex 7,885
Dinwiddie 30,702 Middlesex 4,981 Tazewell 10,791
Elizabeth City 8,303 Montgomery 12,556 Warren 5,716 Essex 9,927 Nansemond 11,576 Warwick 1,672
Essex
Fauquier 19,690 New Kent 4,381 Westmoreland 7,682
Floyd
Fluvanna 9,075 Northampton 8,046 Wythe 11,611
Franklin
Total
WEST VIRGINIA—Area, 23,000 square miles.
Barbour 10,312 Jefferson 13,219 Pocahontas 4,067
Berkeley 14,900 Kanawha 22,349 Preston 14,555
Boone 4,553 Lewis
Braxton 6,480 Lincoln 5,053 Raleigh 3,673
Brooke 5,464 Logan 5,124 Randolph 5,563
Cabell 6,429 Marion
(Valhoun 2,939 Marshall 14,941 Roane 7,232
Clay
Doddridge 7,076 McDowell 1,952 Tucker 1,907
Fayette 6,647 Mercer 7,664 Tyler 7,832
Gilmer 4,338 Mineral 6,332 Upshur 8,023
Grant
Greenbrier 11,417 Monroe 11,124 Webster 1,730
Hampshire 7,643 Morgan 4,315 Wetzel 8,595
Hancock 4,363 Nicholas 4,458 Wirt 4,804
Hardy
Harrison 16,714 Pendleton 6,455 Wyoming 3,171
Jackson 10,300 Pleasants 3,012 Total442,014

Description of the second second

Experimental properties and the substitution of the substitution o

Adams 6,601 Green 23,611 Plerce 9,988 Ashland 221 Green Lake 13,195 Polk 3,422 Barron 538 Iowa 24,544 Portage 10,634 Bayfield 344 Jackson 7,687 Ractine 26,740 Brown 25,163 Jofferson 34,040 Richland 15,731 Buffalo 11,123 Juneau 12,372 Rock 39,030 Burnett 706 Kenosha 13,147 Sauk 23,860 Calumet 12,335 Kowaunee 10,128 Shawanaw 3,166 Chippews 8,311 La Crosse 20,297 Sheboygan 31,749 Clark 3,450 La Fayette 22,650 St. Croix 11,635 Columbia 28,862 Manitowoc 33,344 Trempealeau 10,732 Crawford 13,075 Marathon 5,885 Verton 18,645 Dane 50,090 Marquette 8,056 Walworth 25,972 Dodge 47,035 Milwaukee 99,230 Washington 23,919 Door 4,919 Monroe 16,550 Walworth 25,972 Douglas 1,122 Octoto 8,321 Waupacea 15,563 Dunn 9,488 Outagamie 18,430 Waushara 11,279 Eau Olaire 10,769 Ozatkee 15,564 Winnebago 37,279 Fond du Lac 46,273 Pepin 4,659 Wood 3,912 Grant 37,079 Total 1,054,670  DISTRICT OF COLUMBIA—Area, 60 square miles.  Georgetown City 11,384 Washington City 109,199 Remainder of Dist 1,117 Total 1,054,670  DISTRICT OF COLUMBIA—Brea, 60 square miles.  Georgetown City 11,384 Washington City 109,199 Remainder of Dist 1,117 Total 1,054,670  DISTRICT OF COLUMBIA—Area, 60 square miles.  Georgetown City 11,384 Washington City 109,199 Remainder of Dist 1,117 Total 2,292 Fremout 1,054 L's Animas 4,276 Boulder 1,930 Glipin 5,490 Ph. Clear Creek 1,930 Girpin 5,490 Ph. Clear Creek 1,930 Girpin 5,490 Ph. Clear Creek 1,930 Girpin 5,490 Ph. Total 2,255 Concips 2,564 Huerfano 2,258 Baguache 304 Costilia 1,779 Jefferson 2,328 Rummit 228 Douglas 1,388 Lake 522 Weld 1,633 Brockings 163 Jayre 5 Union 3,567 Buffalo 246 Lincoln 712 Vankton 2,097 Charles Mix 102 Minnehaba 355 Unorganized por- Clay 2,621 Pembina 355 Unorganized por- Clay 2,621 Pembina 351 Unorganized por- Clay 2,621 Pembina 1,14,181	WISCONSIN-Area, 53,924 square miles.
DISTRICT OF COLUMBIA—Area, 60 square miles.   Georgetown City   11,384 Washington City   109,199 Remainder of Dist   1,117 Total   131,700   1	Ashland       221       Green Lake       13,195       Polk       3,422         Barron       538       Iowa       24,544       Portage       10,634         Bayfield       344       Jackson       7,687       Racine       26,740         Brown       25,168       Jefferson       34,040       Richland       15,731         Buffalo       11,123       Juneau       12,372       Rock       39,030         Burnett       706       Kenosha       13,147       Sauk       23,860         Calumet       12,335       Kewaunee       10,128       Shawanaw       3,166         Chippewa       8,311       La Crosse       20,297       Sheboygan       31,749         Clark       3,450       La Fayette       22,659       St. Croix       11,035         Columbia       28,802       Manitowoe       33,364       Trempealeau       10,732         Crawford       13,075       Marathon       5,885       Vecnon       18,645         Dane       53,096       Marquette       80,56       Walworth       25,972         Dodge       47,035       Milwaukee       89,930       Washington       23,919         Door       4
TERRITORIES	
ARIZONA—Area, 113,916 square miles.  Mohave 179 Yavapai 2,142 Yuma 1,621 Pima 5,716 Total 9,658  COLORADO—Area, 104,500 square miles.  Arapahoe 6,829 El Paso 987 Larimer 838 Bent 592 Fremont 1,064 L's Animas 4,276 Boulder 1,939 Gilpin 5,490 Pa. 447 Clear Creek 1,596 Greenwood 516 Pueblo 2,265 Conejos 2,504 Huerfano 2,250 Saguache 304 Costilla 1,779 Jefferson 2,392 Summit 258 Douglas 1,388 Lake 522 Weld 1,636 Total 39,864  DAKOTA—Area, 50,932 square miles.  Bon Homme 608 Hutchinson 37 Todd 337 Brookings 163 Jayne 5 Union 3,507 Buffalo 246 Lincoln 712 Yankton 2,097	Georgetown City 11,384 Washington City 109,199 Remainder of Dist. 1,117
ARIZONA—Area, 113,916 square miles.  Mohave 179 Yavapai 2,142 Yuma 1,621 Pima 5,716 Total 9,658  COLORADO—Area, 104,500 square miles.  Arapahoe 6,829 El Paso 987 Larimer 838 Bent 592 Fremont 1,064 L's Animas 4,276 Boulder 1,939 Gilpin 5,490 Pa. 447 Clear Creek 1,596 Greenwood 516 Pueblo 2,265 Conejos 2,504 Huerfano 2,250 Saguache 304 Costilla 1,779 Jefferson 2,392 Summit 258 Douglas 1,388 Lake 522 Weld 1,636 Total 39,864  DAKOTA—Area, 50,932 square miles.  Bon Homme 608 Hutchinson 37 Todd 337 Brookings 163 Jayne 5 Union 3,507 Buffalo 246 Lincoln 712 Yankton 2,097	<del></del>
COLORADO—Area, 104,500 square miles.  Arapahoe 6,829 El Paso 987 Larimer 838 Bent 592 Fremont 1,064 L's Animas 4,276 Boulder 1,939 Gilpin 5,490 Pa 447 Clear Creek 1,596 Greenwood 510 Pueblo 2,265 Conejos 2,504 Huerfano 2,250 Saguache 304 Costilla 1,779 Jefferson 2,392 Summit 258 Douglas 1,388 Lake 522 Weld 1,636 Total 39,864  DAKOTA—Area, 50,932 square miles.  Bon Homme 608 Hutchinson 37 Todd 337 Brockings 163 Jayne 5 Union 3,507 Buffalo 246 Lincoln 712 Yankton 2,097	TERRITORIES.
COLORADO—Area, 104,500 square miles.  Arapahoe 6,829 El Paso 987 Larimer 838 Bent 592 Fremont 1,064 L's Animas 4,276 Boulder 1,939 Gilpin 5,490 Pa 447 Clear Creek 1,596 Greenwood 516 Pueblo 2,265 Conejos 2,504 Huerfano 2,250 Saguache 304 Costilla 1,779 Jefferson 2,392 Summit 258 Douglas 1,388 Lake 522 Weld 1,636 Total 39,864  DAKOTA—Area, 50,932 square miles.  Bon Homme 608 Hutchinson 37 Todd 337 Brockings 163 Jayne 5 Union 3,507 Buffalo 246 Lincoln 712 Yankton 2,097	ADTOONE A Man 119 018 agreeme miles
Arapahoe       6,829 El Paso       987 Earimer       838         Bent       592 Fremont       1,064 L 's Animas       4,276         Boulder       1,939 Gilpin       5,490 Pt.       447         Clear Creek       1,596 Greenwood       516 Pueblo       2,265         Conejos       2,504 Huerfano       2,250 Saguache       304         Costilla       1,779 Jefferson       2,392 Summit       258         Douglas       1,388 Lake       522 Weld       1,636         Total       39,864         DAKOTA—Area, 50,932 square miles         Bon Homme       608 Hutchinson       37 Todd       337         Brookings       163 Jayne       5 Union       3,507         Buffalo       246 Lincoln       712 Yankton       2,097	Mohave 179 Yavapai 2,142 Yuma 1,621 Pima 5,716 Total 9,658
Arapahoe       6,829 El Paso       987 Larimer       838         Bent       592 Fremont       1,064 L's Animas       4,276         Boulder       1,939 Gilpin       5,490 Pt.       447         Clear Creek       1,596 Greenwood       510 Pueblo       2,265         Conejos       2,504 Huerfano       2,250 Saguache       304         Costilla       1,779 Jefferson       2,392 Summit       258         Douglas       1,388 Lake       522 Weld       1,636         Total       39,864         DAKOTA—Area, 50,932 square miles         Bon Homme       608 Hutchinson       37 Todd       337         Brookings       163 Jayne       5 Union       3,507         Buffalo       246 Lincoln       712 Yankton       2,097	COLORADO-Area, 104,500 square miles.
Bon Homme       608 Hutchinson       37 Todd       937         Brookings       163 Jayne       5 Union       3,507         Buffalo       246 Lincoln       712 Yankton       2,097	Bent       592 Fremout       1,064 L's Animas       4,276         Boulder       1,939 Gilpin       5,490 Pt.       447         Clear Creek       1,596 Greenwood       516 Pueblo       2,265         Conejos       2,504 Huerfano       2,250 Saguache       304         Costilla       1,779 Jefferson       2,392 Summit       258         Douglas       1,388 Lake       522 Weld       1,636
Brookings 163 Jayne	
	Brookings 163 Jayne

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IDAHO-Area, 86,294 square miles.
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MONTANA-Area, 143,776 square miles.
Beaver Head       722 Deer Lodge       4,367 Madison       2,684         Big Horn       38 Gallatin       1,578 Meagher       1,387         Choteau       517 Jefferson       1,531 Missoula       2,554         Dawson       177 Lewis and Clarke       5,040       Total       20.595
NEW MEXICO-Area, 121,201 square miles.
Bernalillo       7,591 Mora       8,056 Sauta Fe         Colfax       1,992 Rio Arriba       9,204 Socorro       6,603         Dona-Ana       5,864 San Miguel       16,058 Taos       12,079         Grant       1,143 Santa Ana       1,599 Valencia       9,093         Lincoln       1,803       Total       91,874
UTAH.—Area, 84,476 square miles.
Beaver       2,007 Millard       2,753 Sevier       19         Box Elder       4,855 Morgar       1,972 Summit       2,512         Cache       8,229 Piute       82 Tooele       2,177         Davis       4,459 Rich       1,955 Utah       12,203         Iron       2,277 Rio Virgin       450 Wasatch       1,244         Juab       2,034 Salt Lake       18,337 Washington       3,064         Kane       1,513 San Pete       6,786 Weber       7,858         Total       86,786
WASHINGTON-Area, 69,994 square miles.
Chehalis       401   Klikitat       329   Stevens       734         Clallam       408   Lewis       888   Thurston       2,246         Clarke       3,081   Mason       289   Wahkiakum       270         Cowlitz       730   Pacific       738   Walla; Walla       5,300         Island       626   Pierce       1,409   Whatcom       534         Jefferson       1,268   Skamania       133   Yakima       432         King       2,120   Snohomish       599   The Disputed Islands       554         Kitsap       70tal       23,955
WYOMING-Area, 97,883 square miles.
Albany       2,021]Laramie       2,957 Uintah       856         Carbon       1,368 Sweetwater       1,916        Total       9,118
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The total for the States is

# ONE HUNDRED PRINCIPAL CITIES. CENSUS OF 1870.

	0411000 01 1010	•
New York, N. Y 942,292	Scranton, Pa35,0	92; Bridgeport, Ct 19,960
		30 Erie, Pa
		09 Wheeling, W. Va 19,282
		79 Norfolk, Va19,229
,	1 7	73 Taunton, Mass 18,629
		60 Chelsea, Mass18.547
	, , , , , , , , , , , , , , , , ,	34 Dubuque, Ia18,434
	,	14 Leavenworth, Kan. 17,873
	)	41 Fort Wayne, Ind17,718
· · · · · · · · · · · · · · · · · · ·	<u> </u>	21 Springfield, III17,364
		84 Auburn, N. Y17,225
•		23 Newburg, N. Y17,014
<u> </u>	[	33 St. Joseph, Mo 19,565
•	<b>.</b> <del>.</del>	66 Petersburg, Va 18,950
• •		03 Atlanta, Ga21,789
•	1 <del>.</del>	65 Norwich, Ct16,653
	)	05 Sacramento, Cal16,283
		17 Omaha, Neb16,083
,	I - I - I - I - I - I - I - I - I - I -	53 Elmira, N. Y 15,863
•	<b>.</b>	36 Gloucester, Mass 15,389
		04 Cohoes, N. Y 15,357
		74 New Albany, Ind15,396
		19 New Brunswick, N. J.15,058
		30 Terre Haute, Ind16,103
New Haven, Ct 50,840	New Bedford, Mass. 21.3	20 Bangor, Me18,289
Charleston, S. C 48,956	Oswego, N. Y 20.9	10 Newport, Ky15,087
		32 Grand Rapids, Mich. 16,507
		33 Augusta, Ga15,389
Worcester, Mass. 41.105	Savannah, Ga28.2	35 Burlington, Vt14,387
		97 Alexandria, Va13,570
Memphis Tenn 40.996	Poughkeensie, N. Y., 20.0	80 Sandusky, O13,000
Cambridge Mass 29.634	Camden, N. J 20.0	45 Lewiston, Me13,600
Hartford, Ct37,180	Davenport, Ia20.0	38
Indianapolis, Ind36,565	St. Paul. Minn20.0	31
THERMITEDING THE OO SOOD	. WHE I SELLED ALEMANDERS A P. S. S. MUJ.	1

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#### LUCK AT LAST.

You think I'm nervous, stranger? Well, I am, If 'twa'n't for making silly people talk, I'd get right off this pokish train and walk From here to where I'm going—Amsterdam.

That's where I live, you see. As for Lacrosse—
(Excuse me, neighbor, I must talk or bust)—
Since I've been there it's three years certain, just:
And now to laugh or cry is just a toss.

"Married?" Why, yes, that's where it is, you see; I've telegraphed her I was strong and well, And coming to her; but I didn't tell That I was rich. I thought I'd let that be.

It's too good luck, this is, to last, you know, And, stranger, if I wasn't kind of rash, I'd bet my bottom dollar that we smash Before—but, pshaw, excuse me, I'll go slow.

You see, when we were married, Sue and I, I was a good mechanic, and not poor Until I struck it, as I reckoned, sure, In an invention I was working sly.

All I could make went into that concern;
And people called me crazy for it too,
And said I'd better stick to what I knew;
But folks will talk, and have lived to learn.

In all this world I had but one friend then,
But she stood by me nobly, through and through,
And said 'twould come out right at last, she knew—
One woman staunch is worth a dozen men.

'Twas tough, sometimes, though, when a loaf of bread Stood on the table—all tre meal we had—

I should have gone alone, quite to the bad But, through it all, my Susan kept her head

'Twas her advice that sent me off at last— She said she'd work her fingers to the bone, And live for twenty mortal years alone, Rather than give it up—thank God, that's past.

A hundred thousand and a royalty
Is what I've got for going far away;
She cheered me by her letters every day;
A million could not pay such loyalty!

She knows I'm coming; but she doesn't know
That I am rich; and she will be there, too,
Dressed in her best—her best, my poor, dear Sue;
I'll bet a hundred 'twill be calico!

"I'll dress her now?" You bet it!—but go slow, This luck's a heap too good to last, I fear; I shan't believe it till I'm fairly there; The train may smash up, easy, yet, you know.

The only reason, if it don't, will be That I'm so strongly thinking that it will. I'm nervous, say you? Just a little, still The luck is none too good for Sue, you see.

Hello! we're here!—there's Sue, by all that's grand.
Stranger, excuse me, sir, but would you mind
To go ahead and tell her I'm behind?
I'm choking: see my eyes—you understand.

Janesville (Wis.) Gazette.

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### WM. EDGAR SIMONDS,

# ATTORNEY AT LAW,

345 MAIN STREET, HARTFORD, CONN.

SOLICITOR OF

#### AMERICAN AND FOREIGN PATENTS.

The writer of this work, originally prompted to this profession by natural tastes, and having enjoyed thorough scientific and legal training therefor, has been engaged, for the past six years, in soliciting letters patent for inventions, in all the patent g anting countries of the world, and in the conduct of patent cases in the United States Courts, with a measure of success at once surprising and gratifying.

It has been his aim, in each case he has taken before the Patent Office, to secure for the inventor all he was entitled to, sparing no pains to attain this end. He believes that he can safely refer, upon this point, to each one of the hundreds of inventors for whom he has acted.

While the records of the Patent Office show that fully one third of all the applications

made for patents are finally rejected, the proportion of final rejections upon applications made through this office, will hardly amount to one tenth. All specifications, and other papers for foreign patents, have been fully completed, ready for filing in the office for which they were designed, under his own hand—barring, sometimes, a translation—and in his own office, the significance of which statement can only be fully appreciated by a solicitor.

As in the past, so in the future, it will be his aim to render a perfect service to inventors, as regards skill, promptness, and fidelity, striving to make each case, as it comes under his hand, more perfect, if possible, than the last.

All business connected with preliminary examinations, caveats, applications for patents, reissues, interferences, extensions, disclaimers, appeals, assignments, contracts, searches, opinions, infringements, or other patent matters whatsoever, he contracts to do in the same manner. As most inventors find, sooner or later, good work in patent matters is worth everything, poor work worse than worthless.

The writer does not offer himself as a competitor, in the matter of prices, with those solicitors who take work on any terms they can get, yet he knows that his charges are much less

than those of other solicitors who are competent to perform, and do perform the same quality of work.

He will be pleased, upon request made, to forward a pamphlet circular, which is explicit in the matter of terms, etc., both for home and foreign patents.

If you have a difficult or rejected case, you are invited to submit it for his opinion as to the chances of success, which opinion will be given, usually, without charge, and a fee named upon which the case will be undertaken.

With reference to suits at law upon patents, attention is drawn to the following professional card:

### W. E. SINONDS

ATTORNEY AT LAW,

Practitioner in the A. S. Courts.

PATENT CASES A SPECIALTY.

#### ERRATA.

On page 12, line 2, the words "as low" should follow the word "fixed."

On page 25, line 10, "proportion" should read "proposition."

On page 47, under head of "Undivided Interests," the words "that it is probably lawful," should be inserted immediately after the word "understand," in line 2.

On page 48, line 15, the word "use," should follow the word "make."

On page 74, line 9, omit the word "such."

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