## Scientific American.

## TO CORRESPONDENTS.

W. P., of N. Y.-You are a plain sensible farmer and ask sensible questions. You remark correctly that some who write on agricultural subjects show remarkable ig norance by dealing in indefinite technicalities. You ask about manures-our opinion about the best kind. Our ad vice is, that every farmer, should be able to make as much for himself, in his own barn yard, as will keep his farm In proper condition. Barn-yard manures, taking care to save the liquid part, is the cheapest kind. With a rotation of crops, summer fallowing, the use of lime, and a proper stock of animals, no farmer need expend much in purchase ing artificial manures.

R. C., of C. W .- You must introduce every new and im proved agricultural machine and implement into Canada that we have here. Never buy a machine for your own us unless it is well made and of good materials. Erect a small workshop, get a chest of tools, and be sure and have a large tool-house to keep your plows, harrows, &c., under cover when they are not required for use. Don't let the iron o any tool rust, for every ounce of rust is a loss of five dol

H. W. B., of Ohio-We cannot tell you whether there is or is not a single factory for making fine linen fabric in ou

E. McC., of Va.-Tobacco is now cultivated in many pla ces in New York State; so far as we have been able to learn it is not equal in quality to that of Virginia; however, we cannot tell you if this is correct.

R. S., of Phil.—The prussiate of potash, pounded and made into a paste, with water, is now employed for case hardening, in place of old boot legs, horns, and hoofs, which were formerly used by tool makers for this purpose

J. J. W., of N. Y.—It requires but a very limited amount of information to say that such and such is incorrect. When you do so, always be ready with proof to substantiate your opinions.

C. S. W., of Wis.—The water is the power which propels

a water wheel; in its own self, the wheel cannot be said to possess any power. The velocity of the water in feet per second, and the quantity which falls in a minute, in pounds, multiplied into one another, and divided by the constan quantity, 33,000, will give you the horse-power of the water. dynamometer will give the effective power of the wheel.

C. D., of Ohio-It will require more water to condense steam by outside or surface condensation than injection -If you use about five and a half times the quantity of sur face of your cylinder, you should obtain a good vacuum.

T. A. W., of N. Y.-The Office require that caveats shall be sworn to as well as applications for patents.

L. E. W., of Vt.—A self-acting pump, whether locate

in a barn yard or a parlor, must be, strictly speaking, new.
If you don't mean what you say, and refer to a pump made to act by the pressure of the animal when it drinks, the idea is not new.

D. V. M, of Ill.-Your supposition is correct. Sub scribers to the Scientific American can have reasonable questions answered by mail or in the columns of the paper gratis. Your sketch shall be examined, and advice given

O. S., of La.-You can manufacture and sell your filters with safety, whether you get a patent or not, but we shall try hard yet to get a patent for you. Your letter covering \$10 was answered by mail.

J. V. C., of Vt.-Your plan of providing the bore of rifles with projecting ribs, and grooving the ball to fit the ribs, or of making the ribs serve as guides to the ball, is not new. It has been presented to us several times. We have no account of its ever being proved equal to the grooved barrel.

\$1 received, all right.

W. R., of Ohio-Placing the working parts of a gun lock outside, instead of imbedding the lock in the gun stock, must, in the alteration of old fire arms be ausefulimprove ment. But it is not patentable, and therefore we cannot advise you to go to any expense in the matter.

J. C., of Tenn.—We have received your last communic

tion on perpetual motion.

, of N. Y.-When you write again, be \*ure and us a pen, and make your letters clear and distinct, and beware of being long-winded.

surface at the center of the earth-calculatin . the weight of the superincumbent strata-would be 1,492 000x5,280 lbs.-Air submitted to this pressure would produce a most intense

D. R. K., of Pa.-Your suggestion in regard to an improved mode of confining animals within a proscribed range n fields is not new. It is common to attach a rope or chain to a wire or rod, loosely, so that the animal may come from one end to the other, and still be secured by the rope to within a specified distance of the rod. Have you never en monkeys so tied in a menagerie? the principle is essen tially the same, and being old, is not patentable.

J. H. H., of Pa. - The model of Mr. Lindsey's shaker was forwarded to him by Adams & Co's express, on the 5th. We are happy to hear that your Institution is so flourishing. We trust you will have a good exhibition in the mechanical department. A few weeks before the opening remind us of the Exhibition, and we will direct attention to it in our col

R. McC., of Tex-Don't be afraid, for until you make wiser suggestions you need not fear of our republishing them over your signature, or even without any name.

M. N., of Pa-We are much pleased with your improve ment in lathos; we think it is parentable. Your first step will be to send a model, with the Government fee of \$30, to

W. H. K., of Conn.-Your plan for making the looms steam conductors for heating, will involve their being set on an incline, for the purpose of allowing the condense steam, to run down into a receptacle. Otherwise your plan is feasible and good, and a p tent may be obtained for it. Every inventor has a full and exclusive right to his own inventions. There are thousands of inventors who have deeply regretted not patenting their inventions in season, -o hers stepped in before them, and received profitable pat-

G. H. C., of N. J.-Your distance indicator for carriages is not new. Your idea of going around to work in the principal machine shops of the country, to engage in and witness the present methods of constructing steam engines, will be serviceable to you personally, and perhaps enable you to produce a useful work.

Somebody, writing from Chicopee Falls, Mass., bas sent us a description of an excellent device of a perspective d. awing instrument, bu the letter came without signature. F. R., of N Y.—For information about the Daguerreo type, address Mr. Muscher. The suit against Trinity Church

is not vet ended. . & J L., of Mo .- You ask if there is a suction fa patented : we do not understand what you mean.

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T. D., of Ala.-We do not think your plan for a steam boiler possesses patentable novelty; corrugated iron has been used in almost every variety of form fora like purpose, with the size of corrugations varied almost indefinitely.

E. M. S., of N. Y.-We know of no patent on any sub stanceformaking cylets for any purpose.

C. L., Jr., of Ct.—A sash catch operating substantially like yours, has been long in use. The objection to them is, that too much of the frame has to be cut away. Your plan is not patentable.

H. W., of Mass.-The pianeforte business is very dull in this city, at present; the prices for piece-work in some branches have been reduced.

R. C. J., of Conn.-You are perfectly right in your views egarding the great amount of bad joiner work now performed in our country : quantity not quality, appears to be the grand aim. Apprentices are too impatient to do a big day's work. A good joiner is a rarity among our carpen

C. D. H., of Pa.—On page 161, Vol. 3, of the Scientific American, you will see an engraving of a street-sweeping machine, which we judge from your description is essential. y the same as your plan. Examine that engraving and see if we are not correct.

D. F., of La.-Ball valves have been used in pumps a number of years—as long ago as 1848, an engraving was published in our columns of a pump having "ball valves," and they were in use long before that.

J. R. A., of N. Y .- In order to get up engravings of you fire engine, we should require the letters patent. It would be three or four weeks after their receipt before we could get the engravings in the paper. The expense would be We are glad you are so well pleased at the success of your agents.

Samuel Neff, of Newmarket, Va.—Wishes to purchase the best butter worker in use. One capable of working 100 lbs. at a time. Who can furnish him? Address the en

P. H. W., of N. Y .- For the fine list of subscribers you ent us accept our thanks. Considering the time of year, when every body is busy, or should be, we think you have done remar able well in getting so good a list. The diagram of your spoke machine shows the most simple constructed machine for the purpose we have ever seen. It is difficult determining whether apatent would probably issue or not, so many have been the cases applied for, saill we think yours is different ftom any we have seen, and we think, if it will operate, it is a capital invention. Send us model, and we can give you better advice as to its patentability, we have not much doubt but what it is patentable, however, from your description and sketch.

The following French patents, which came out by the Atlantic, last Friday, remain uncalled for, and are subject to theorder of the owners:—J. C. Howe, improvement in Fire Arms; H. Berdan, improvement in Life Boats; Daniel Noyes, improvement in Wrought Nail Machinery.

Money received at the SCIENTIFIC AMERICAN Office or count of Patent Office business for the week ending Satur day, May 5:-

B. B. B., of Tenn., \$25; E. D. C., of N. Y., \$25; A. H. 5. B. B., 61 1 1111, \$\(\frac{\pi\_0}{2}\), \(\frac{\pi\_0}{2}\), \(\frac{ C., of Ala., \$25; J. H., of Wis., \$25; G. W. M., of Mich., \$25; E. D. W., of Pa., \$30; P. & S., of O., \$55; J. C. D., of N. J., \$150; W. S. F., of N. Y., \$10; R. d'H., of N. Y., \$10; J. B., of Ct., \$55; J. E. R., of L. I., \$25; A. & G., of Ind., \$30; A. C., of N. Y., \$56; A. & C. N. C., of N. T., \$55; A. Y., \$30; A. B. H., of Pa., \$30; C. D. W., of Wis., \$30; J. R. H., of Pa., \$35; J. E. C., of N. Y., \$30; W. F., (2 cases) of Mich., \$20; W. C., of N. J., \$30; L. M., of Wis., \$10; S. H., of Ill., \$20; W. H. B., of Pa., \$30; J. B. L., of N. Y., \$30; H. T. R., of Mass., \$35; V. P. C., of N. Y., \$250; L. M., of O., \$30; A. S., of Mich., \$5; B. R., of Va. \$30; J. L. G., of Ky., \$55; W. A. S., of Mass., \$50 C. L., of Pa., \$25; R. K., of N. Y., \$25; H. R., of C. W

Specifications and drawings belonging to parties with the ollowing initials have been forwarded to the Patent Office during the week ending Saturday, May 5:-

B. & R., of Mass.; W. D., Jr., of Pa.; J. B., of Ct.; A S., of Mich.; B. B. B., of Tenn.; A. H., of N. Y.; E. D. C., of N. Y.; E. R. N., of Pa.; F. C. L., of Pa.; R. K., of N. Y.; T. McC., of Ala.; G. A. M., of N. Y.; G. W. M., of Mich.; S. R., of La.; J. A., of N. J.; J. H., of Wis.; J. P., of Mass.; H. R., of C. W.; P. J. C., of S. C.

## ----Important Items.

PATENT LAWS, AND GUIDE TO INVENTORS-Congress have ing adjourned without enacting any new laws pertaining applications for patents. we have issued a new edition of the old laws, which may be had at our counter or sent by mail. This pamphlet contains not only the laws but all information touching the rules and regulations of the Patent Office Price 12% cents per conv.

PATENT CLAIMS-Persons desiring the claim of any inver tion which has been patented within fourteen years, can obtain a copy by addressing a letter to this office, stating the name of the patentee, and enclosing \$1 for fees for

-We are receiving almost daily, models of intions which have not the names of their inventors marked upon them. This usually prevents us from taking any no-tice of them whatever. We shall esteem it a great favor it inventors will always attach their names to such models as they send us. It will save us much trouble, and some times prevent the model from being mislaid.

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IMPORTANT TO INVENTORS—MESSRS. MUNN & CO., 128 Fulton street, New York, Publishers and Proprietors of the Scientific American, having for many years been extensively engaged in procuring Letters Patents for new mechanical and chemical inventions, offer their services upon the most reasonable terms. Patents promptly secured in the United States, Great Britain, France, Belgium, Holland Austria, Russia, Spain, and in all countries where they are granted. All business entrusted to their charge is strictly confidential. Private consultations respecting the patentability of inventions are held free of charge, with inventors at their office, from 9A M. until 4P. M. Parties residing at a distance are informed that it is generally unnecessary for them to incur the expense of attending in person, as all the steps necessary to secure a patent can be arranged by letter. A rough sketch and description of the improvement should be first forwarded, which we will examine and give an opinion as to patentability, without charge. Models and fees can be sent with safety from any part of the country by express. In this respect New York is more accessible than any other city in our country. Circulars of information will be sent free of postage to any one wishing to learn the preliminary steps towards making an application. In addition to the advantages which the long experience and great success of our firm in obtaining paisent present to inventors, they are informed that all inventions patented through our establishment, are noticed, at the proper time, in the Scientific American informed that all influence. Parties intrusting their business in our hands can rely upon prompt and fathful attention—Most of the patents obtained by Americans in foreign countries are secured through us; while it is well known that a very large proportion of all the patents applied for in the U. S. ro through our agency.

The offices of Messrs. Munn & Co.'s American and Foreign Patent Agency are at 128 Fulton Street,

United States Patent Office, Washington, April 28, 1855.

ON THE PETITION of Hiram Dilaway, of Sandwich, Mass., praying for the extension of a patent granted to him on the 21st Aug., 1841, for an improvement in the construction of molds for pressing glass, for seven years from the expiration of said patent, which takes place on the 21st day of August, 1856—

It is ordered that the said petition be heard at the Patent Office, on Monday, the \*th of August next, at 12 o'clock M.: and all persons are notified to appear and show cause, if any they have, why said petition ought not to be "ranted Persons opposing the extension are required to file in the Patent Office their objections, specially set forth in writing, at least twenty days before the day of hearing; all testimony filed by either party to be used at the said hearing must be taken and transmitted in accordance with the rules of the office, which will be furnished on applications, and other papers relied upon as testimony must be filed in the office on or before the morning of that day; the arguments, if any, within ten days thereafter.

O'dereaf, also, that this notice be published in the United States Patent Office, Washington, April 23, 1855

thereafter.

Tridered, also, that this notice be published in the Un on Intelligencer, and Evening Star, Washington, D. C.; Daily Republican, Baltimore; Pennsylvanian, Philadelphia, Pa.: Scientific American, New York, and Post, Boston, Mass. once a week for three successive weeks previous to the 6th day of August next, the day of hearing.

S. T. SHUGERT. S. T. SHUGERT.

Acting Commissioner of Patents.

P. S.—Editors of the above papers will please copy and send their bills to the Patent Office, with a paper containing this notice.

35 3 Acting Commiss

THE CHEAPEST HORSE POWER KNOWN.

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