Scientific American.

TO CORRESPONDENTS.

N

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 purchas 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 lars

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 country

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 youuseabout 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 on its receipt.

O. S., of La .- You can manufacture and sell your filter 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 makibg 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. P.S

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

H. H. L., of Pa.-The pressure upon each square for surface at the center of the earth-calculatin . the weight of the superincumbent strata-would be 1,492 000×5,280 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 forwaided 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 umns

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

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 eylets 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 planeforte 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 regarding 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 ters.

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 quirer, not us

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 Lable 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, still 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 patenta ble, 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 of 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. B. B. D. of lefting \$22, E. D. O., of N. A. \$4, \$40, 1 A. A. \$5, of N. Y., \$30; E. R. N., of Pa, \$25; S. & & R., of Mass, \$55; A. L. of Pa, \$50; J. P., of Mass, \$55; J. B., of N. Y., \$32; H. B., of Ct., \$250; H. W., of N. Y., \$30; T. Me C., of Ala., \$25; J. H., of Wis., \$25; G. W. M., of Mich., 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., \$35; 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., \$55; A. & C. N. G., of N. 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 \$55.

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 121% cents per copy. 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 copying. -We are receiving almost daily, models of in

tions 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.

American and Foreign Patent Agency.

American and Foreign Patent Agency. MPORTANT TO INVENTORS-MESSRS. MUNN Proprietors of the Scientric American and proprietors of the Scientric American and terrs Patents for new mechanical and chemical in-proprietors of the Scientric American and the scient read of the scient services upon the most reasonable freat fritain. France. Beigium, Holland Amstria. Rus-All usinessentrusted to their charge is strictly cond-bility of inventions are held free of charge, with inven-residing at a distance are informed that it is generally in processary for them to incur the expense of attending in processary for them to incur the expense of attending in processary for them to incur the expense of attending in processary for them to incur the expense of attending in processary for them to incur the expense of attending in processary for them to incur the expense of attending in processary for them to incur the expense of attending in processary for them to incur the expense of attending in processary for them to incur the expense of attending in processary for them to incur the expense of attending in processary for them to incur the expense of attending in processary for them to incur the expense of attending in process at distance. Models and fees can be seried with a feity from any part of the country by express. This pare is read by letter. Arough sketch and descrip-rient and great auccess of our firm in Other distances the reliminary steps towards making an application. This pare is read by not less than 100.00 gersons every influence. Parties intrusting their business in form the section of the patents obtained by Americans in foreign the section of the satents obtained by Americans in foreign the patent solution the attending their business in foreign the patent solution of a gency. The patent Agency are at 18 Fullon Stiress in foreign the the submet obtained by Americans in foreign the section of a stepses. Munn & Os American and your bis stepses at the result of a stepses. St

UNITED STATES PATENT OFFICE, Washington, April 23, 1855

UNITED STATES PATENT OFFICE. Washington, April 23, 1855. ON THE PETITION of Hiram Dillaway, of Sand-ent granted to him on the 21st Awy, 1841, for an improve-ment 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 Pat-oticok M.: and all persons are notified to appear and show cause. if any they have, why said petition ought into to be «tranted victow M.: and all persons are notified to appear and show cause. if any they have, why said petition ought into to be «tranted method the state 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 appleation. The testimmy in the case will be closed on the 26th of July: depositions, and other papers relied upon as test timory, must be Gled in the office on or before the morn-ing of that day ; the arguments, if any, within ten days therafter. Dratered, also, that this notice be published in the

thereafter. Ordered, also, that this notice be published in the Ordered, also, that this notice be published in the Un on Intelligencer, and Evening Star, Washington, D. C. Daily Republican, Baltimore; Pennsylvanian, Phil-adelphia, 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. SHUGEER, 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 eco-taining this notice. 35 3 Acting Commiss

THE CHEAPEST HORSE POWER KNOWN. Patented April 1st. 1855.—Simpson's horse power hasnot a grar wheel about it, and it can be constructed dept grar wheel about it, and it can be constructed less and furnishes a larger percentageof power than any horse power known. For the purchase of rights for the District of Columbia, Mar Yland, Delaware, New Jer-sey, Pennsylvania, New York, Uhio, and the New Eng-land States, apply to Prof. CHAS. G. PAGE, Washing-ton, D. C.______354

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1855-D W. WHITING, Forwarding and

on an incline, for the purpose of allowing the cond-nsed steam, to rou 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 here stepped in before them, and received profitable patents. G. H. C., of N. JYour distance indicator for carriages, is not new. Your idea of going around to work in the principal machine sheps 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., has sent us a description of an excellent derice of a perspective d. awing instrument, bu the letter came without signature. F. R., of N XFor information about the Daguerreo type, address Mr. Mascher. The suit against Trinity Church is not yet ended.	Advertusing. 4 lines, for each insertion, \$1,00 8 " 2,00 13 " 3,00 16 " 4,00 Advertisements exceeding 16 lines cannot be admitted. neither can engravings be inserted in the advertising columns at any price. 3 T All advertisements must be paid for before inser - ing. 18 - Faicon_t's Coupling for hose, hydrants, force pumps, etc., is the only coupling likely to supers.etc the screw coupling, and excels it in everyrespect, and after a public irial under the server st tests, it has been adepted under an Act of the Corporation of the City of Washington, to the Fire Department, in place of the serve coupling. For the purchase of rghts under the patent, apply to I'rof. CHAS. G, PAGE, Washington, D. C. 35tf	A THE WATCALE INSTRUMENTS. THE INFORMATION AT THE UNIT ATTACH THE INFORMATION AT THE AND ATTACH AND	 Correspondence of the Work of the West rates by any line, as directed. Mark plainly, "care D. W. WHITING, Buffalo, N. Y." 2007 Norccross HOTARY PLANNG MACHINE 2007 Norccross of date Feb. 12, 1850, for a Kotary Planing Machine for Planing Boards and Planks, is not an infringemet of the Woodwork Patent. Rights to use N. G. Norcrois's patented machine can be purchased on application to N. G. NORCORSS, 1850 and 1864, Norcoris's patented machine can be sourched for the Woodwork Patent. Rights to use N. G. Norcrois's Patented machine can be purchased on application to N. G. NORCORSS, 16 6m⁴ Office for sale of rights at 206 Broadway, New York, Office for sale of rights at 206 Broadway, New York, 208 Broadway, New York, 308 Broadway, 16 6m⁴ Boston, 27 State street, and Lowell, Mass. 16 6m⁴ Boston, 27 State street, and Conscillation to Patent, 208 Broadway, 18 Broad
F. R., of N YFor information about the Daguerreo type, address Mr. Muscher. The suit against Trinity Church	HAFFER'S STEAM AND VACUUM GAUGES Harson's Water Gauges-on sale by ENGELKE &	A HAVIG -S.C. HILLS, No. 12 Platt st., N.Y. The dealer in Steam Engines, Boilers, Planers, Lathes Chucks Drills, Pumps; Mortising, Tenoning, and Sash Machines Woodworth's and Daniel's Planers; Dick's Punches, Presses and Shears: Cob and Corn Mills;	Engines and Saw Mills, Bogardus' Horsepowers,