Scientific, American.

TO CORRESPONDENTS.

M. A. H., of N. Y.—You cannot get a patent for the eccentric on the main shaft attached toa pitman; it is a common device applied to pumps, stampers, &c., and is common property to apply to any machine for the same purpose A chimney on a height will give the best draft. A brick flue is better than a pipe of metal in its nature, but it is not of such a good form inside for the draught.

E. W , of N. Y .- Your example about the ball requires to be more carefully repeated. The earth travels in its curved orbit just as far in 24 hours as it would do in a straight line.

A. R., of N. C.—In the discharge of a cannon, the elasticity of the gases suddenly liberated by the ignited powder, acts equally in all directions.

A. B. M., of Texas.—Cast-iron cranes should not be loaded with more than one-tenth of the weight that will break them, and when they are intended to lower heavy bodies by means of brakes, their load should not be more than one-twentieth of the break-

A. R., of N. H.—The essential principles of statics and dynamics apply equally to fluids and solids.

W. M. of Mo. - The intensity of the magnetic force is greatest at the poles, and diminishes towards the

-The statistics of the P. O. Department would be very useful if printed on the envelopes, but it never would answer to ask for the names of the different places of our country to be printed on them -it would not pay.

J. M. P., of Tenn,-We should not wish to undertake your case after its passage through other hands as no doubt your agent will do the best he can for you. You could not patent the wheel.

L. K., of N. Y.-We recommend you to obtain Minifie's Mechanical Drawing Book, price \$3.

R. B. W., of N. C.—We do not know of any submarine examiner for sale. Willard Dav. of Brooklyn. N. Y, is the patentee of an apparatus for the purpose, and might furnish you with one.

G. W. C., of Pa.-We think your improvement in constructing fire places and flues is new and patentable at least we do not remember to have seen any thing like it.

W. D., Jr., of Pa.-There are some things about your rotary engine which are new to us, but we can not see what advantage you gain over the one illustrated in No. 18, Vol. 4, Sci. Am.

J. Y S., of Pa.—We have never known of a cider mill embracing the improvement described in yours of the 11th inst, but it is quite common in oil presses. We have seen them so constructed, therefore you could not obtain a patent for its application to a new purpose.

J. A., of Mass.-Minnifie's Mechanical Drawing Book treats upon all branches of the art. The price of the book including pre-payment of postage is \$3,50. We can give no information in regard to the rule. We have placed the \$1 to your credit for an additional six months subscription.

J. D. B., of Ala.—There are no good low priced works upon architecture. The American House Carpenter is useful and is sold for about \$2.

I. W M., of Vt .- The form of the lathe could not be secured by a patent, the machine could, in our opinion, be secured. The Alcottlathe is a good one, we know of none better, but cannot advise you re specting the market for handles here.

N. A., of Ne.-We have no doubt of the success of your invention when fairly brought out. The cause States for one cent, and if paid quarterly or yearly of its failure is doubtless owing to defective work- in advance, either at the office of mailing or delivemanship. The latter is important to the success of every mechanic.

H. B. G., of Ill.—We are not able to give you the required information about the "grits". The paper lar and fifty cents a year; a weekly paper or periowill be sent to your address regularly. It has been dical will be charged only six and a half cents a directed to the wrong State.

R. T., of Phila.—Your measuring apparatus appears to be very simple, but we cannot undertake to furnish you with a party who would engage in their manufacture. This object might be accomplished by an advertisement.

A. S. A., of Conn.-You could not patent the application of any well-known method to a new purpose. It is not regarded as an invention. An inventionmay be publicly used two years before making an application for a patent, but it is not always safe to take advantage of this provision in the law.

are quite new to us in regard to connecting and dis connecting the wheel. If it has ever been tried we have no knowledge of the fact. Submit the matter to an experimental test, this is the only and surest

J. D. R., of Phila. - We will attend to your commu nication next week

A. R., of N Y .- You may depend upon it, the coke brick is all moonshine, so far as cheapness is concerned. Common clay brick can be rendered water-proof in the same manner. The extract in the Post must be taken from a foreign journal.

C. B. G., of Conn.—We do not remember to have seen a carpenter's bevel constructed in the manner shown in your communication. If it is useful a patent might be granted for it. It is a very difficult point to decide what view the Commissioner of Patents might take of it.

R. S. B., of Col. H .- If we published your letter you would regret it; you will find that ice contains 140 deg. of latent heat, the trade winds are not caused by the rotation of the earth on its axis; and the telescope has a 13 feet aperture; all these statements are facts, and you would not like to see authorities quoted to make neonle smile at the corrector being corrected for his want of correc information.

L. A. S., of N. Y.—We sent your note to Mr. Wells He is a millwright and can doubtless furnish you.

S. C. K., of Wis.-Your favor of the 5th inst covering 15 came safe to hand Gillespies work on road making is the best one we know of. A. S Barnes & Co., 51 John street, N. Y., publishers Price about \$2.

J. S., of N. Y.—You are mistaken about the tin pipes, they are not so good for radiating heat as those made of iron. We could not advise you to use 10 inch tin pipe upon any consideration. You are right about the collapse, if a vacuum is allowed to be formed in such tubes; this can be prevented by having a light valve opening in wards.

S. S., of S. C.—We have referred your letter to a manufacturer for attention.

W. L. B., of Pa.—Your proper course will be to visit large agricultural warehouses like A. B. Allen & Co., or John Mayer & Co., of this city. It would give us considerable trouble to furnish a list as complete as you would require.

F. S. C., of Mass. - We regard your boiler arrange ment as a novel contrivance, and have no doubt of its patentability. You will need to test its working capabilities. The two other devices we cannot regard as patentable.

Z. B., of N. Y.—You are right about the decision of the judge respeting the height of a smoke pipe on the Ohio river boats, but the height is an entirely different question from the length. The spiral pipe would increase the evil; the shorter the horizontal fiue the better, and the higher the chimney the better. The philosophical reasons were set forth in our last volume while discussing this case.

Money received on account of Patent Office hasi ness for the week ending Saturday Oct. 16:-

N. C., of Ct., \$10: A. O., of N. Y., \$50; S. B., of Ind., \$30; J. E., of R. I., \$15; R. & S., of N. J., \$30: W. C., of Ct., \$30; E. Van. C., of Pa., \$25; G. P., of N. Y., \$20; S. & K., of Pa., \$20; J. D. C., of N. Y., \$25; T. M., of Pa., \$50; H. F. P., of N. Y., \$7; J. E. W., of Pa., \$30; N. G. N., Of Mass., \$30; M. & D., of Mass., \$30; S. R., of N. Y., \$5; J. S., of Mass., \$25. Mass., \$25.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday Oct. 16:

B. C. B., of N. Y.; T. & M., of Mass.; J. F. J., o N. C. F. T. S., of Mass.; C. W. S., of Ohio; J. D. C of N. Y.; H. F. P., of N. Y.; H. & L., of Mass.

Cheap Postage-Important to Subscribe

The amended postage law, as enacted by the last Congress, having gone into effect on the 1st inst., we take occasion to make an extract from one of the sections, from which our mail patrons will see that the item of postage on the Scientific American will in future be less by one-half than formerly.

"Any periodical or newspaper, under three ounces in weight, can be sent to any part of the United ry, will be transmitted by the mails for half a cent each number; that is, for a daily paper, the postage will be only thirty nine cents a quarter, or one dolquarter, or twenty-six cents a year. If the weight does not exceed an ounce and a half, it may be circulated in the State where published at half of the

According to the above extract, subscribers to the Scientific American, residing in the State of New York will receive their papers by mail at thirteen cents per annum, instead of thirteen cents per quarter as formerly, thus reducing the cost of the Scientific American thirty-nine cents per annum to mail subscribers—an item worth saving.

Subscribers in the most remote part of the coun try will be required to pay but six and a half cents J. C. S., of N.Y.—We do not as yet understand the manner in which examinations will be conducted under Mr. Ray's prizes. We suppose the investigations will be conducted a week at least before the close of the exhibition.

C. F. O., of Mass.—If your method of disconnecting car wheels from axles while turning curves would be useful providing it does not increase the liability of throwing the cars off the track. Your suggestions are quite new to us in regard to connecting and disapplying to the Scientific American, the per quarter in future for the Scientific American, the post in America for Chair Stuff, Wagon Thills, Rake, Fork, Hoe, and Broom Handles. Persons wishing this Lathe, warranted to do twice the work of any other lathe, by applying to L. A. SPALDING, Lockport, N. Y., can be supplied. The following certificate of Birge & Brother, extensive chair manufacturers, at Troy, N. Y., is to the point:

"After making a perfect and thorough trial of Bailey's Self-Centering and Self-Adjusting Lathe, we can cheerfully recommend it as in every way calculated to perform its work in the best manner—as it is the best Lathe we have ever used in our manufactor; and having used many different kinds, we J. C. S., of N. Y.—We do notas yet understand the per quarter in future for the Scientific American,

numbers and volumes of the Scientific American can be furnished, we make the following statement:

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Of Volume 6, all; price in sheets, \$2; bound, \$2,75. Of Vol. 7, all; price sn sheets, \$2; bound, \$2,75.

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Our subscribers will please to consider the great inducement offered to clubs, and to keep in mind the valuable prizes offered for the four largest lists of mail subscribers.

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Persons desiring the claims of any invention 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 one dollar as fee for copying.

Patent Laws, and Guide to Inventors.

We publish, and have for sale, the Patent Laws of the United States. The pamphlet contains not only the laws but all information touching the rules and regulation of the Patent Office. Price 121-2 cts. per

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American and Foreign Patent Agency

IMPORTANT TO INVENTORS,---The undersigned having for several years been extensively engaged in procuring Letters Patent for new mechanical and chemical inventions, offer their services to inventors upon the most reasonable terms. All businessentrusted to their charge is strictly confidential. Private consultations are held with inventors at their offer from 0.4 M, until 4 P. M. Income the process of the consultations are held with inventors at their offer from 0.4 M, until 4 P. M. Income their consultations are held with inventors at their offer from 0.4 M, until 4 P. M. Income their consultations are held with inventors at their offer from 0.4 M, until 4 P. M. Income their consultations are their offer from 0.4 M, until 4 P. M. Income their consultations are their consultations are held with inventors at the consultations are held

dential. Private consultations are held with inventors at their office from 9 A. M., until 4 P. M. Inventors, however, need not incur the expense of attending in person, as the preliminaries can all be arranged by letter. Models can be sent with safety by express or any other convenient medium. They should not be over 1 foot square in size, if possible. Having Agents located in the chief cities of Europe, our facilities for obtaining Foreign Patents are unequalled. This branch of our business receives the especial attention of one of the members of the firm, who is prepared to advise with inventors and manufacturers at all times, relating to Foreign Patents.

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POSTAGE STAMPS.—Post Office Stamps, of the denomination of 1, 3, or 12 cents, may be had at par by addressing MUNN & CO., Scientific American Office.

AN ARCHITECT wishes to obtain a pupil to learn the art and science of Architecture; terms, &c., will be made known on application by letter (post-paid) to EDSON & ENGELBERT, Architects No. 35 Nassan st. N. Y. chitects, No. 85 Nassau st., N. Y.

A. B. ELY, Counsellor at Law, 46 Washington st., Boston, will give particular attention to Patent Cases. Refers to Munn & Co., Scientific American.

\$500-SEVEN HORSE POWER—We have \$500 for sale a firstrate 7 horse-power Engine and Boiler, fitted with governor, pump, fly-wheel, safety valve, grate bars, etc. all complete to be set immediately to running. The cylinder of the engine is six inches bore, and the stroke of the piston is 16 inches. The engine is attached to a cast-iron bed plate, and is one of Mann's best make The boiler is an upright, 6 feet high, and 3 feet in diameter, composed of 50 flues, having all the connecting pipes complete and ready to be set up and attached to the engine in half an hour's time. The engine and boiler at the price above named (\$500) is astonishingly cheap for its worth, and we hope soon to receive an order for them. Boxed and shipped for \$500. Address MUNN & CO., Scientific American Office.

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particulars, address R. Y. RUSSELL, Necoweta Co, Ga.

BALLEY'S SELF-CENTERING LATHE-

factory; and having used many different kinds, we feel safe in asserting that it is probably the best machine of the kind in use. BIRGE & BROTHER. Francis Miller, Lucius Foot, Turners for B. & B."

TRON FOUNDERS MATERIALS—vis.: Americanhard white and grey Pig Iron; No. 1 Scotch Pig Iron; Iron and Brass Moulding Sand; Fire Sand and Fire Clay; Core Sand and Flour. English and

BEARDSLEE'S PATENT PLANING MA-BEARDSLEE'S PATENT PLANING MAchine, for Planing, Tonguing and Grooving Boards and Plank.—This recently patented machine is now in successful operation at the Machine shop and Foundry of Messrs. F. & T. Townsend, Albany N. Y.; where it can be seen. It produces work superior to any mode of planing before known. The number of plank or boards fed into it is the only limit to the amount it will plane. For rights to this machine apply to the patentee at the abovenamed foundry—or at his residence No. 764 Broadway; Albany. GEO. W. BEARDSLEE. 23tf

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45tf
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PAINTS, &c. &c.—American Atomic Drier Graining Colors, Anti-friction Paste, Gold Size, Zinc Drier, and Stove Polish. QUARTERMAN & SON, 114 John st., 1tf Painters and Chemists.

ATHES FOR BROOM HANDLES, Etc.—We Lacontinue to sell Alcott's Concentric Lathe, which is adapted to turning Windsor Chair Legs, Pillars, Rods and Rounds; Hoe Handles, Fork Handles and Broom Handles.

Broom Handles.

This Lathe is capable of turning under two inches diameter, with only the trouble of changing the dies and pattern to the size required. It will turn smooth over swells or depressions of 3-4 to the inch and work as smoothly as on a straight line—and does excellent work. Sold without frames for the low price of \$25—boxed and shipped with directions for setting up. Address (post.paid) MUNN & CO.

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Patent of the United States having been issued
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47tf

A RARE CHANCE—TO MACHINISTS—Assignee's sale of Machinists' Tools: these tools have been in use about fourmonths, and consist of Planers, Lathes, Dill Presses, and Universal Chucks, which are for sale from 20 to 25 per cent. less than cost. For particulars address (post-paid) JOHN PARSHLEY, New Haven, Ct.

OGAN VAIL & CO., No. 9 Gold street, New I York agents for George Vail & Co., Speedwell Iron Works, have constantly on hand Saw Mill and Grist Mill Irons, Press Screws, Bogardus' Horse-Powers, and will take orders of Machinery of any kind, of iron and brass; Portable Saw-mills and Steam Engines, Saw Gummers of approved and cheap kind, &c. Gearing, Shafting, large and small, cast kind, &c. Gearing, or of wrought iron.

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