# Scientific American.

### TO CORRESPONDENTS.

Those of our subscribers who have duplicate copies of a machine for breaking copper ore of No. 6, 12, 15, and 17 present volume, will oblige us by

J. E. S., of N. Y.—Address John forwarding them to this office.

J. G. C., of D. C .- It is no doubt very desirable to employ some substitute for cast ron in the manufacture of artillery, so as to obviate the immense weight necessary to render them sufficiently strong, and at the same time to insure greater strength. It has been found that cast-iron guns have given way after a very limited number of shots, and thus need frequently to be replaced. In a 72-pounder the pressure of the explosion is about 72 tuns to the square inch, which is tentimes the force of the tensile resistance of a square inch of the metal; a patent, however, could obtained for substituting one metal for another, such as steel for cast iron.

A. T., of Montreal-The fact of portrait painters mak ing such back grounds, would prevent their application to daguerrectypes being a proper subject for a patent. Youdo not say how they are to be produced. It is quite probable that there may be something new and patentable

in your manner of producing them.

E. P., of Union Point—If you will furnish us with your residence in full, we shall be happy to send you one of our circulars relating to patent business. When you write please to repeat your requests, in order that we may know what you want. You will bear in mind that there

are several Union Points in this country.

Messrs. Speed & Bailey, patentees of the Car Spring. will learn something to their interest by calling at this

G. McD., of Vt .- In our Fair notices we gave the ad dress of George Whipple, Manufacturer of Knitting Machines, at No. 24 William st. We do not know where else he can be found. If he would advertise his machinery in the Sci. Am., it would pay him fifty times as much as he would make out of its exhibition at the Crystal Pal ace. We have had numerous inquiries for his machines since our notice appeared. Some papers refuse to give the address of inventors when noticing their inventions, for the reason that they do not wish to advertise gratui tously. This is the right of the publisher, yet we never hesitate to give the fullest benefit to inventors in our col-umns, and our gratuitous notices are productive of vast benefit to those who are thus favored. We have no selfish desires in this matter, for we do not seek for advertising but we are very sure that the Sci. Am., with its immense circulation, is the best advertising medium in the world for inventors and patentees to adopt in disposing of rights

understood, any more than a wind or a tide mill. You give motion to a mill by the expansion and contraction of mercury, caused by the changes of atmospheric tem which is similarin principle to the ebb and flow of the tides.

J. C. M., of Pa.—Correspondents who write to us for information without signing their names, are not entitled to any attention. It is our rule not to notice their inquiries; but as you are evidently ignorant on this point, we will answer you by referring you to Logan & Lidgerwood, No. 9 Gold st., N. Y. They sell good wrenches, but we do no know their price per dozen.

A. W. H., of Mo.—It would be impossible to get a per son with capital to engage in the business to which you refer without perfect assurance that it will prove profita-

C. & G., of N. Y.-We will have something to say about water power either in the next or succeeding number to that, of the Sci. Am.
G. C., of N. Y.—Wedo not know anything about the

subject brought to our notice.

G. B. McD., of Ky.—Pistons have been applied in r forms for steam gauges, and there is nothing essentially new in your arrangement to entitle you to a patent.

D. G. Mills, of Gulf Prairie, Texas, wishes to procure a good machine for cutting ditches about 21.2 feet wide at the top, 18 inches at the bottom, and 21-2 feet deep.

Timothy Riggin, and Gerard Sickles, of Brooklyn, H. W. Adams, of this city, and W. H. Wood, of Jersey City, will please to call at this office, and execute their papers for applications for patents.

L. B. M., of Pa.-If you will look over the back files of the Sci. Am., and inform us what numbers you want we will send them if we have them on hand. We do not remember of any numbers which contain such illustrations as you want and it would take up a good deal of our time

in looking them up.

J. F. G., of N. Y.—We believe the objection to the loose wheel is that it tends to throw the cars off the track. think it has been tried on the Erie Road. You had better inquire of McCallum the Superindent.

J. L., of C. W.—We do not perceive any novelty in your plan for ventilating railroad cars. It is not new. and we advise you to abandon it.

F. E. J., of Mass.—The idea of putting a strip of india rubber under railroad rails, to obviate noise and jarring. is not new. We noticed the same thing in the Sci. Am some time ago.

E. VV. F., of La.—We were much amused with your description of the spiking and sinking of the cypress log. We have sent you the information desired respecting the Woodworth Patent.

W.B., of-You wish to know the velocity of falling water at the various hights from five to ten feet. It falls four feet in half a second; five feet in '557 of a second; six feet in '636 of a second; eight feet in '706 of a second; nine feet in '75 of a second; and ten feet in '79 of a second. In conducting the water down through a shute, it is estimated that the resistance to the above velocity, which is over twenty-six per cent.

D. C.. of Ct.—We may not be able to discover where the deception of the perpetual motion is confined, but certainly no machine can set and keep itself in motion according to the known laws of mechanics.

H. H., of Mass.—The journal to which you refer is a monthly. It is a very respectable publication

monthly. It is a very respectable publication.

J. C. D., of Newark—Your alleged substitute for a crank has been carefully examined. Its arrangement differs from any other with which we are acquainted, the content of yet we do not see any thing in it that betokens success.—
We think it would be valueless except perhaps on very small engines

J. G., of St. Louis—We do not know anything about your caveat, but if the Commissioner does not acknowledge the receipt of the papers soon you had better write him again. \$3 received, will send you a bound volume.

O, A., of Ind.—Not a copy of the People's Journal is to

W. T. Bover & Bro. Harrisburg, Pa -Wish to procure

J. E. S., of N. Y .- Address John Jones, Clyde, N. Y.

for information about mechanical typographer.

W. K., of Ky.—Please send your model as soon as con venient, and we will give prompt attention to the prepa

Moneyreceived at the SCIENTIFIC AMERICAN Office on account of Patent Office business for the week ending Saturday, Jan. 25, 1856 :-

W. & B., of Me., \$25; I. A. H., of Mass., \$10: W. S., of Iowa, \$30; P. D. M. C., of N. Y., \$35; M. & C. P., of Md., \$55; A. E. C., of Pa., \$20; H. & B., of N. Y., \$55; B. F. F., of Pa., \$25; A. McD. S., of Ala., \$60; C. & P., of N. Y., \$50; M. & B., of N. Y., \$30; B. & F., of N. Y., \$35; F. V., of Mich., \$25; J. G., of Mass., \$25; F. W. T., of Ct., \$20; L. J., of N. Y., \$30; T. S., of N. Y., \$30: L. B. A., of Pa., \$4350; J. M., of Pa., \$50; T. McB., of N. Y., \$25; H. J. H., of Me., \$25; M. B., of N. Y., \$55; M. N., of N.Y., \$30; G. J. B., of—\$30; J. H. B., of Vt., \$55; L. & A.T., of Ct., \$30; W. M. B., of Del., \$25; J. C. G., of N. J., \$20; J. H., of Mo., \$30; A. C. K., of N. Y., \$55; W. H. W., of N. J., \$12; E. G., of Mass., \$55.

Specifications and drawings belonging to parties the following initials have been forwarded to the Patent Office during the week ending Saturday, Jan. 26:

W. & B., of Me.; W. W., of La.; B. F. F., of Pa.; D. F. L., of Pa.; F. V., of Mich.; C. W. C., of N. Y.; J. G., of Mass.; R. T. S., of Geo.; S. T., of Ind.; W. H. W., of N. J.; A. F. & C. M. H. W., of N. Y.; H. & B., of N. Y.; H. J. H., of Me.; T. McB., of N. Y.; J, M. B., of N. Y., W. M. B., of Del.; A. C. K., of N. Y.

#### Important Items.

BACK NUMBERS AND VOLUMES-The following numbers and volumes of the Scientific American, are for sale at this office, at the annexed prices:-Volume VI, Vol. VII, Vol. IX, and Vol. X, complete. PRICE, bound, per Volume, \$2,75. Numbers in sheets, complete, \$2. Of Volumes IX. and X., we have also about 40 numbers each, not consecutive, which will be sent by mail on receipt of \$1.

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#### Literary Notices.

MAGAZINES RECEIVED FOR FEBRUARY—"National Magazine," Carlton & Phillips, New York. "Arthur's Home Magazine"—T. S. Arthur & Co., Philadelphia.—These magazines are excellent, and high toned. They contain interesting illustrations, and several choice articles.

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valuable inventions by letters patent—one on supporting the top masts, and the other in suspending lower top saily ards—I amesirous of selling rights, or procuring acents for disposing of the inventions in the United States. Charges for a license to use both patents 5 cents per tun. Address THOS. BATTY, 204 South st., New York City.

New York, Jan. 22nd, 1856.
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WDARTNER WANTED-The undersigned wishes to make arrangements with some re-possible party to enter into the manufacture and sale of the "Automatic Entry Light," illustrated in No. 7, this volume Scientific American. This invention may be very generally introduced in entries, water closets, state rooms in steamboats, or as a nightlaing or nursery lamp. It is simple, durable, and cheap, and if well managed, cannot fail to be profitsble to those who may invest in it. C. W. FELT, Salem, Mass.

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## IMPORTANT TO INVENT-ORS.

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practical experience in soliciting PATENTS in this practical experience in soliciting PATENTS in this and foreign countries, beg to give notice that they continue to offer their services to all who may desire to secure Patents at home or abroad. Over three thousand Letters Patent have been issued, whose papers were prepared at this Office, and on an average pficen. or one-thir d of all the Patents issued each week, are on cases which are prepared at our Agency. An able corps of Engineers, Examiners, Draughtsmen, and Specification writers are in constant employment, which renders us able to prepare applications on the shortest notice, while the experience of a long practice, and facilities which few others possess, we are able to give the most correct counsels to inventors in regard to the patentability of inventions placed before us for examination.

Private consultations respecting the patentability of inventions are held free of charge, with inventors, at our office, from 9 A. M., until 4 P. 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.

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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., go through our agency.

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Rights to use the N. G. Norcross's patented machine can be purchased en application to N. G. NORCROSS, 208 Broadway, New York.

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