TO CORRESPONDENTS

L. G., of N. Y.-We think favorable of your im proved method of preventing caraxles from breaking, but may change our views after examining a sketch and description which you had better send

W. M. L., of La.—We have ordered the machine you want, but shall not be able to obtain it until about four weeks; the delay is unavoidable on our

 $M.\ M._1$ of La.—We think favorable of your ideas in regard to boxwood, but there is no chance for a patent.

W. W., of L. I .- No patent could be obtained for the article you mention, and we advise you not to make an attempt.

S. C. H., of Ohio. - You ask if a single engine with a fly-wheel, will give as steady a motion to stones as a double engine with the cranks set at right angles. If the engine is worked up to its limit of power it will not. It has been found that for milling purposes it is difficult to get a steady motion from steam power. The engine or engines must be powerful and there must be plenty of steam so as to allow them to work easy. You state that two thirty feet boilers of three feet diameter do not drive any more than two run of stone. Have you fire bridges under them-do you burn coal or wood? Boilers that use coal should never be more than six times the length of their diameter. In every case we advise the employment of tubular boilers, and the use of pure water in them. There should be nine square feet of heating surface for each horse power; by making your calculations you can determine whether your boilers are correct or not.

D. B., of N. J .- You may rest assured that lime will never supersede coal; a pound of coal will convert far more water into steam than a pound of lime

E. L. N.. of Mass.-Guess you have discovered the article by this time without the aid of those specta-

E. S., of Me. - We are the agents of Mr. Avery for procuring his foreign patents, and think we know what we are about when we pronounce it a first-rate machine for the price.

J. M. B, of Del.—We have shipped several concentric Lathes to Philadelphia, but the names of the parties who purchased we have entirely forgotten.

J. T., of Phila.-The "Mechanic" we referred to died three or four years ago.

S. S., of N. Y.-If we understand your drawing we believe your invention to be patentable; the claim you suggest would have to be greatly modified however.

J. Y., of Ohio-The error you speak of was correc ted before the papers were sent to the Patent Office An engraving of your invention would cost \$10.

G. W. H., of N. Y.—We fail to discover any thing patentable in your Match Safe, although they are a very pretty article of manufacture.

D. R., of N. C .- Your subscription will expire at No. 26, Vol. 9. It was a mistake of ours in receiving the price of binding twice.

H. Van de W., of N. Y.-Your wheelso closely re sembles the one illustrated in the 14th number, present volume Sci. Am., that it would not afford sufficient interest to our readers to warrant our publishing an engraving of it.

R, S., of Ill.-We have duly examined the sketch of your alleged improvement in Rotary Engines, and recognize in it an old acquaintance: we have been familiar with the same plan for some years; see Vol 4, Sci. Am.

I. H. G., of Iowa-We did not answer your inqui ry because we were unable to do so. The first question is a "poser," and we know what you mean but know of no one who can approximate to anything like a true estimate; we think there is no machine which does the work you speak of.

H. G. R., of Tenn.-We have examined the sketch of your alleged improvement in Churns, and cannot discover anything new or patentable in it; we have seen the same plan before.

F. V. D., of Mich.-Machines to be operated by the action and re-action of waves is well known and have been variously modified; you may have some new contrivance, but it is doubtful.

G. R. Selkirk, of Michigan City, Ind., wishes to purchase a suit of Submarine Armor of the most approved construction.

J. F. J., of N. C .- We have handed over vour letter to an engine builder.

S. F H., of Boston-You can send us a full and complete description of your Car Seat for examina-

H. & R., of N. H .- We never publish engravings entirely devoid of letters of reference to to explain the operation of the invention

R. L. O. of Pa. - We do not see the advantages you claim for the device mentioned in your former letter; you might make an experiment and fully sa tisfy yourself.

G. C., of N. Y .- It is no easy matter to arrive at your meaning from the briefdescription and sketches you have presented. The idea presented is that of a double tier of buckets on the wheel, the upper the percussion, the lower the reaction; this form of wheel is not new, and so far as percussion and re action is concerned the application is an anomaly.

C. L., of Ct.—You may perhaps have seen accounts of thus allowing the exhaust to escape into a cold water tank; we have so used it ourselves; but the extract showed how far they were behind in Europe; it is the same with the gas patent; it will never benefit the patentees where coal can be pur-

quired its name from the surveyors. Anywork on Natural Philosophy will give you the information about the atmosphere; the answer would be too long for us to give.

W. R. R, of N. Y.-The hollow shaft, for the weight of metal, is the strongest, but certainly a solid cast-iron shaft is as strong as a hollaw one of the same diameter.

J. C., of N. J.—Brass is the best metal that weare acquainted with for counters for store advertise-

Money received on account of Patent Office business for the week ending Saturday, Jan. 8:

the Patent Office during the week ending Saturday, Jan. 8:

J. E., of N. Y.; D. M., of N. Y.: O. S., of R. I.; W. F., of Pa.; J. H., of N. Y.: N. C. T., of N. Y.

A Chapter of Suggestions, &c.

PATENT CLAIMS—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 pa tentee, and enclosing one dollar as fee for copying

PATENTEES-Remember we are always willing to execute and publish engravings of your inventions, provided they are on interesting subjects, and have never appeared in any other publication. No engravings are inserted in our columns that have appeared in any other journal in this country, and we must be permitted to have the engraving executed to suit our own columns in size and style Barely the expense of the engraving is charged by us, and the wood-cuts may be claimed by the inventor, and subsequently used to advantage in other journals.

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raying agents tocated 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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SURFACE CONDENSERS—Having built and used at our machine shop and foundry one of J. M. Miller's Surface Condensers for the last 14 months, we are now prepared to receive orders for building and putting up said condensers on either high or low pressure engines now in use, and warrant the same against expansion and contraction of the metals, also the injurious effects of oil in the tubes, which alone has caused the failure of condensers heretofere used. We have also found, in the use of our Condenser a nett saving of 30 per cent. of fuel, the water being kept pure and regular in the boiler by the condensation of the steam. In our judgment this Condenser is the perfecting of the Steam Engine.

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North Point Foundry and Machine Works,
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W. P. N. FITZGERALD, Counsellor at Law ness for the week ending Saturday, Jan. 8:

G. D., of N. Y., \$30; N. C. T., of N. Y., \$35; J.

Ex. of N. Y., \$25; J. C. S., of Pa., \$30; H. L. F. G., Examiner of Patents, which he has held for many of Mich., \$25; E. B. W., of N. H., \$30; F. J. T., of Pears, and is ready to assist, professionally, in the N. Y., \$30; C. W. G., of N. Y., \$10; J. & C. D., of Preparation and trial of patent causes before the U. \$20; J. H., of N. Y., \$37.

Specifications and drawings belonging to parties with the following initials have been forwarded to the following initials have been forwarded to 18th corner of E and 8th sts., Washington. \$100. ington, D. C.

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Boilers—The inventor of a never-failing and extremely cheap remedy, which has been tried successfully for two years, with the most different qualities of water. offers to communicate it for the benefit of the public at a moderate price. Post-paid letters, enclosing \$5, will receive prompt answer if directed to the undersigned, who is prepared to give the best of reference.

1*

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exceed ten hours a day. The claim that the Beardslee machine was an infringement upon the Woodworth patent, has been finally abandoned; at d after
the proofs had been taken, the suit instituted by the
owners of that patent was discontinued, and the
whole controversy terminated on the first of November last. Applications for machines or rights may
be made to the subscriber, &E.O. W. BEARDSLEE,
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15tf

EXHIBITION OF WORKS OF AMERICAN EXHIBITION OF WORKS OF AMERICAN Industry at Washington City.—The first exhibition of the Metropolitan Mechanics' Institute will be opened on Thursday, the 24th of February, 1853, in the new and splendid hall of the east wing of the Patent Office, one of the largest and most magnificent rooms in the United States, being 275 feet long by 70 feet wide. To this exhibition the manufacturers, mechanics, artists, and inventors, from all portions of the Union, are cordially invited to contribute. The hall will be opened for the reception of goods on Monday, tha 14th of February, and the exhibition will positively close on or before Thursday night, March 17. Circulars, containing detailed instructions, will be forwarded and any turther information given, on application (post-paid) to the Corresponding Secretary, Charles F. Stansbury, to whom all communications on the business of the Institute should be addressed should be addressed

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To MECHANICS—A RARE CHANCE—FOR sale or to let, a building 60x90, with a 15 horse engine, shafting and pulleys, 5000 feet yard room, near the depot of the Kennebec and Boston R. R., in Brunswick, Me., 6 hours from Boston; is one of the best locations in the States for building freight cars or making furniture, or any other manufacture of lumber, being in the heart of a ship-building and lumber country; will be sold a bargain, the owner not being in circumstances to manage it. Also, the riot being in circumstances to manage it. Also, the fand Bath. Apply by letter, post-paid, or in person, to 13 2eow*

NAROESSA STONE.