#### TO CORRESPONDENTS.

"S. D. B. of N. Y."-Your letter came too late to be answered last week. You cannot obtain a patent for a new application of an old principle. You could for a new combination of machinery by which you used the old principle. \$1, O. K.

"W. T. M. of Chesterfield."-You will receive an answer by mail soon.

"H. L. of Md."-We can't find out. You can learn who holds the rights by dropping a line to Rochester.

"O. L. R. of N. H."-We do not know of no notice of such a machine has appeared in system. our columns

"N. G. Jr."-Your combination is a little different but of no practical benefit. We do

not think it worth patenting.
"J. F. M. of Pa."—Polish your glass with Tripoli. It will take a long rubbing, as the scratches have literally to be ground out.

"T. A. D. of Ind."-There is no doubt but your plan would operate, though the power produced from the wheel would probably be so small as to be of no service. No practical benefit can result from it.

"A. M. W. of Mass."-You are welcome to the papers, which is herewith sent. Hope you will induce some of your friends to subscribe. We should be glad to receive your plan of a rotary engine.

"B B, of Me."-We are very much obliged for the list of subscribers you have sent You have our sincere thanks for your exertions. We are glad to know that the engraving pleased you. Mr. A. will see an engraving of a planing machine and description in this paper soon. If he or any one in your part of the country wants one please send them to us. Please say to Mr. S. that the best work on Naval Architecture costs \$35. There is also a good work costing \$4. We can send printed dailies. either of the above if he will enclose the amount to us.

"W. P. E. of Ct."-We do not understand

"E. M. of Mass."-No one but the original inventor, can obtain a patent for an invention, whether foreign or American. If you make an improvement on a foreign invention, you can obtain a patent for the improvement only. In England any one can obtain a patent for an invention. But in this country the inventor only, receives a patent.

### Patent Office Business.

Some of our friends who were promised that their specifications and drawings should be finished and forwarded this week will have to excuse us till the next. We are very sorry that we are not able to fulfil every promise made to them but the illness of our principal Draftsman and a multiplicity of business connected with the "Great Fair" has prevented our usual promptness. They shall receive proper attention next week, however, and we hope never to be obliged to disappoint again or to ask forbearance for not fulfilling our pro-

### Reply to J. K. Eldridge.

Mr. A. R. Carter, agent for Blanchard's machine for turning irregular shapes, requests us to say that he shall furnish an article in reply to the one over the signature of J. B. Eldridge as soon as his infringement cases are decided upon, at Philadelphia, and that he will also give many statistics relative to the validity of their claim and the important decisions made in their tavor.

# Lead Pipes and Water.

Dr. James R. Chilton of this city, says that he tried experiments with Croton water on lead pipes, composition pipes, and lead pipes coated with pure tin after the plan of Mr. Ewbank. The pipes were forty feet in length and were filled with water brought in a cask from the Croton River. The water was displaced from the pipes by admitting fresh supply at intervals of a day or two, for three weeks; and that which escaped was tested each time. The result proved that the water which passed through the lead pipe always contained lead, while that from the pipe made contained lead, while that from the pipe made of the alloy of tin and lead, as also that from the pipe coated with tin, both upon the inside and outside, did not contain a particle of w. Cushman, Washington coll 2t\*

lead, but for the first few days yielded a trace of tin.

It is possible that the water, in passing rapidly through a lead pipe of moderate length, in constant use, may not become so impregnated with lead as to be injurious to health. But there are hundreds of instances where the pipes are conveyed to the second and third stories of houses, where the water is seldom used, but from which the servant may find it convenient to fill a pitcher. The internal use of the water from such situations, is highly injurious, and manifests itself by tremulousany machine such as you describe. We think ness and generally debility of the nervous

#### Increase of American Exports.

A Parliamentary report of exports from the United States to Great Britain for five years, from 1843 to 1847, shows an aggregate increase since 1843, of more than one hundred and fifty per cent. Among the articles enumerated are oil, staves, naval stores, beef, tallow, hides, pork, bacon, lard, cheese wheat, corn, flour, corn meal, rice, wool and hops. The increase of bacon, lard and cheese is equal to one hundred per cent., of corn more than fifteen million per cent, there having been none exported in 1843, and 15,526,-525 bushels in 1847. Thus is the United States pouring her rich harvests into the old

# Advertisements.

73- This paper circulates in every State in the Union, and is seen principally by mechanics and manufacturers. Hence it may be considered the best medium of advertising, for those who import or manufacture machinery, mechanics tools, or such wares and materials as are generally used by those classes The few advertisements in this paper are regarded with much more attention than those in closely

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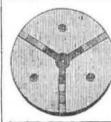
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