Scientific American.

TO CORRESPONDENTS.

J. B., of R. I .- The method towhich you refer for enlargbottom of a hole drilled in a rock, was the use of an acid to eat the stone. A better plan is an instrument invented and used by Mr. Bogardus, for enlarging the roots of holes made in a rock to receive the foot rods of an iron tower built in this city. Granite is very difficult to quarry. It requires a great deal of practical skill to take advantage of the cleavage planes.

J. A. S., of Phila.—A centrifugal cannon to project balls by steam would not be patentable, because such a cannon is not new, In 1344 or 5, we forget which, such a cannon was tried near this city. Its principle of construction is wrong.

J. P., of Pa.-The soles of india rubber shoes are tened under pressure with a cementmade of a solution of india rubber, dissolved in turpentine. We do not know the name of the plant you have sent us.

E. M. H., of Va.-Vulcanized india rubber tubing will convey water at one hundred and fifteen degrees of heat without allowing a single drop to escape. We do not know its price. No cloth tubing that we are acquainted with will do it, and in all likelihood india rubber is not

suitable for your purpose.

D., of Montreal—If you use a float in the boiler made of a hollow globe of copper, and attach it to a valve by a rod, to open the valve when it descends below the water line, and operate a steam whistle, your end will be accomplished: any machinist will make you such an

M. P., of Vt.—You have done wrong, for your own sake in not securing the inventions described by you.

D. W., of N. Y.-We are much obliged to you for the diagram; but we published one on page 75, Vol. 3, Sci. Ass. A good work on millwrighting is desired generally.

W. H. W., of Ala.—To lay the iron grooved rails for vagons, you must nail them on flat plank secured to sleepers, and it requires the middle of the road to be graded so as to shed the water. The plan, however, deserve your further consideration.

L. C., of Conn.—The excess of centrifugal force in the globe referred to by you, illustrated in our columns, overcomes that of gravity in the globe, and this sustains it horizontally. When the centrifugal force is diminished, it ceases to sustain itself horizontally.

needles are now made at Newark, N. J.

A. N., of Conn,—Dilute the nitric acid in six times its weight of water. It you add a little prussian blue to yelow lacquer, youwillgive it a greenish tint.

J. T. B., of Pa .- Your views respecting the "perpetual motion" may be correct. There are various methods that might be cunningly applied to keep it in motion.

E. C., of Ohio-Ilave you seen the extract in one of the New Orleans papers, to the effect that a Mr. Barnes of that city, manufactures soap from cotton seed, which he seil, at six cents per pound.

F. & W., of — Oil will mix with alcohol by first

reducing it to a soap with an alkali. It will then make a t ansparent soap. Pictures are transferred by wetting the paper on which they are printed in an alkaline lye, like that of potash, then placing the picture face down on the dry piece of wood or stone to which you wish to transfer it, and pressing it with an instrument, such as a book folder or a roller. The paper may then be rubbed off. The alkali softens the ink of the picture, and the wood or stene absorbs this ink. There is no benefit to be derived from coppering the top of iron lightning rods.

W. M. W., of Pa.—If your cement is new it can probably be pate.ited. You do not state how it is made, and therefore we cannot determine as to its patentability.

----We doubt whether a patent could be had for your method of uniting papers: it does not appear to differ, in principle, from the common plan of uniting by eyelets; neither do we see any advantages.

C. W., of N, Y.—You may be right regarding the perpetual motion, but there is no use in speculating; we could devise how the job could be done by several differ

J. H. F., of N. Y .- Your pump devices, we think, are patentable; your method of enveloping cannon balls with lead is very old.

M. B. D., of Phila. You can find garacine at any of the

places where dyewoods are sold for calico printworks.

§ M., of Ind. We know of no work on iron railing. H. E.S., of Pa.—Your method of applying heat to drive a lathe could not be patented. You will be unable toget

ower enoughtorthe purpose.
G. H. W., of Wis.—See Vol. 7, for Stave Dresser. Have written you at out the seed sower.

II. S. W., of Pa.—According to our understanding of the patent laws, no person has a right to manufacture an article in territory for which a paient on the article is held

T N. J., of Mass., asks "Is a one-horse power steamengine (so called) Reed's Chronometer for instance, capable of giving out as much power as two men of ordinary strength working at cranks? If it will, I want one; but I am much in the fog on the subject of horse powers." In reply, we would state that a one-horse power engine, you describe, would, if properly made, do the la bor of five men working on a crank of the same stroke as the crank of the engine.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, March 15:-

A. F. W., of Ky.; H. & N., of Ind.; A. McD. S., of Ala.; J. S., of N. Y.; N. A., of N. H.; P. J. C., of Conn.; R., of Me.; E. & A. W., of N. Y.; J. McL., of Mich.; H. L.B., of N. Y.; C. C. of Conn.

Moneyreceived at the Scientific American Officeon account of Patent Office business for the week ending Saturday, March 15, 1856:-

G. M., Jr., of Ill., \$30; W. & C., of Md., \$30; J. B H., of N. H., \$30; T. W., of Pa., \$30; N. & H., of Ind., \$20; E. K., of N. Y., \$10; L. K. S., of Conn., \$55; J. M. W., of N. Y., \$20; A. F. W., of Ky., \$15; J. C. G., of O., \$1257; W. D. W., of O., \$50; J. R., of Ill., \$33: S. H. &. Mc W., of Pa., \$30; R. E., of N. Y., \$30; A. E. K., of Conn., \$30; E. B., f N. J., \$30; S. & S., of Conn., \$30; N. A., of N. Y., \$1 : W. C. M., of N. J., \$30 : W. S., Jr., of Pa., \$55; J. H. O., of Pa., \$30; J. P. C., of N. Y., \$55; C. H. R., of Me., \$7, S. N., of Tenn., \$30; P. J. C., of Conn.; \$20; C. R. B., of N. Y., \$30; J. E. & E. J. P., of Conn., \$30; A. B. W., of Conn., \$55; J. McL., of Mich., \$25; H. K., of Mass., \$25; E. E., of Ill., \$30; H. B., of Conn., \$55;

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