Scientific American.

TO CORRESPONDENTS.

J.W. H., of Pa.-It will be only necessary for you to construct a model representing the wheel attached to the axle

M. P., of N. C .- The patent you refer to was issued Jan. 15, 1851, and the claim will be found on page 150, Vol. 6, Scientific American. We are not ware of any suits having been brought to test the Validity of the patent, we know nothing against its character.

S. B. H., of N. Y .- We have for a number of years prosecuted an extensive patent agency business, and secured many valuable inventions, both at home and abroad. We can undertake your business upon such terms as will afford you ample satisfaction. Inventors should in all cases entrust their business to competent solicitors, as many times they have failed on defective papers. We can do your business by correspondence without the necessity of your coming here.

J. P., of N. Y .- An English patentee proposed to propel carriages or vessels by the action of water kept under pressure in air vessels, the air being condensed by stationary power. A main pipe is to be laid between the rails with branches at suitable dis tances from which the water is allowed to flow against the carriage while it is passing, and thereby propel it. The probability is, that the inventor will never live long enough to realize the practical results of this scheme.

R. A. S., of Ohio.-If you are using the ordinary fire place you will gain considerable by simply lining the back and sides with fire-brick. The expense of alteration is a mere trifle, and you will save considerable heat by it, we should think. H. A. R., of Mass.—By reference to Vol. 6, Scien-

tific American, commencing with No. 1, you will find an able series of articles upon the Voltaic battery by an able electrotypist, we can furnish the volume in sheets or bound. You should have it.

A. W., of Vt.-We shall be glad to procure for you a second-hand engine and boiler, of the capacity mentioned. We are in a position to obtain a good article, and at a very low price. During the past five years we have been in the habit of attending to such orders, for the accommodation of our sub scribers.

A. J. C., of Philadelphia-A block for docking and building vessels substantially like yours will be found illustrated in Vol. 15, 1835, Franklin Journal. The patent was granted to John Williston, Portsmouth, Va. The rider block surmounts the ground block and is divided into equal parts by a vertical cuniform section. We cannot advise you to apply for a patent.

C. C, of N. Y.-The difficulty in the case arose from a delay on the part of the inventor in not getting his patent out in season-one disadvantage of a delay. The original papers were injudiciously prepared, and we amended them at his request. It is tage. paramountly important that the invento's application should always be well drawn up; loose and ambiguous papers often destroy a patent.

J. W. G., of N. Y .- Yours will appearnext week. C R. M. W .- Yours will also appear. We could not insert them this week.

A. R. P., of Mass .- Yours has been received E. N., of N. Y .- Leving's sash machine, we be lieve, is well spoken of, and in our opinion no infringement on the Woodworth patent.

K.S.S., of Charleston .- We shall send you the Sci. Am one year. The price lists we have been unable to obtain but would advise you to address T. J. Wood, corner of Chatham and Duane sts., he is a dealer in tools.

E. R., of S. C.-We should like to examine a sketch and description of your apparatus. If you can realize all you anticipate, it will be a good in vention.

H. M., of N. Y .- We can undertake your foreign business at any time. As soon as you determine how far you will go please notify us, and the business will be pushed forward as rapidly as possible. T. A. R., of Mo.-Certainly not. The principle

is old and well known. 10 years since we saw a machine constructed upon the same principle in the the city of Troy. The person is evidently an impostor, and should be overhauled.

J E. G. of Pa.-The gauge of the Erie Railroad in 6 feet, which is about 1 1-2 feet wider than any other road in the country. It is the longest road in the world

T. D., of Miss .- Several years since an article ap peared in the "Annales des Mines," Vol. 6, touching the quantity of fuel consumed in the cupolas of Birmingham, Manchester. and Newcastle, the proportions were very much greater than since the | IF All advertisements must be paid for before in adoption of the hot air plan. Messrs. Chance and

J. W. J., of Mass.—House's Telegraph employs the

being fixed on a swivel centre, to be fired one after the other Your idea appears rational. A very simple tool has been used in this city for widening the bottom of a drilled hole. The telegraphic wire will not act if it be made red-hot for some length. Are you sure that the steam would not generate electricity if the boiler had the arrangement you speak of? we think it would.

H. R., of C. W .- Your article on Ventilation will appear next week.

J. W. H., of N. Y .- The first 26 numbers of Vol. 4 we cannot supply complete

J. M. W., of C. W.-The back numbers to April 25 have been sent by mail, and if we are not mistaker your friend took the previous numbers with him.

C. H. T., of L. I.-We believe Dewey's Rake to be a very good one, but you can find out more about

the different kinds by calling at John Mayer & Co.'s Agricultural Warehouse, 197 Front st. J. G. M, of Mass.-If you will deliver the volumes

to us free of charge we will sell them for you.

Money received on account of Patent Office business or the week ending May 29:

ness or the week ending May 29: G. W. M., of Tenn, \$55 j.D., of Pa., \$15 j.J. A. J. of N. Y., \$23 i.H. P. O., of Ct, \$30 j.D. J. of Pa., \$25 j.G. & S., of N. C., \$40 j.J. H., of N. Y., \$15 j.W. S. of Pa.; \$12 j.D. L. of Vt. \$30 j.D. A. of Vt., \$30 j. B. H., of O., \$50 j. J. H., of O., \$20 j. R. E.L. of III, \$55 j. M. W. S., of Mass., \$32 j. C. M. M., of Pa., \$30 j. J. M., Jr., of N. Y., \$30 j. G. P., of Pa., \$17.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending May 29: G. N., of N. Y.; J. A. J, of N. Y.; T. H. D., of N. H.; D. D., of Pa.; J. H. G., of O.; R. E. L., of Ill.; G. B. P., of Pa.

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S ECOND-HAND MACHINERY, TOOLS, &c. J. W. J., of Mass.—House's Telegraph employs the Roman letters of our alphabet. A telegraph to use these characters was also in mented in 1841 by Bain J. B. J., of Mass.—We have no particular data for the comparative value of certain woods and coal as fuel, but have some general information. It is the general opinion that one ton of anthracite coal is of birch or maple. 168 lbs. of coal is equal to hard for of Southern pine wood. M. K., of Mass.—We have known of two cannons M. K., of Mass.—We have known of two cannons

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303

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