## Scientific American.

## TO CORRESPONDENTS

F. A. W., of Miss.-Webster's large dictionary is the best on technical terms. A circular saw, three fe t in diameter describes a line of nine feet and a half, nearly in one revolution. A circular saw cuts exactly according to the number of its teeth and the feed of the board or log. If it has fifty teeth, and each one cuts a quarter of an inch deep, it will cut a line of ten feet in nine four-fifth

J. D., of Md.—The employment of a steam whistle for indicating a lack of water in steam boilers is a very old invention, and is well known to engineers.

When a letter is sent to us without the writer's name we always pass it at once, as we can neither correspond with the writer nor place his communication on file.

C. C., of N. Y.—You say you have not received any re ply to a letter sent to us on the 18th of February, and by way of recreation you go on to abuse us in round term for "neglecting you altogether, while, at the same time, we gave careful attention to others " We would suggest that it might have been just as well to have left off the abusive part of your letter, and we have no doubt you will feel ashamed of it when we inform you that we replied at length to your inquiries, by mail, on the 24th of Feb. and pre-paid the letter. You forgot to send us a stamp for the purpose. The letter has probably reached you

J. F. F., of N. C.—Gold has been found in the beds of rivers in California. This fact, we believe, is undisputed.

James Wright, of Florence, Ala., wishes to purchase a machine for sawing veneers, say six feet long and twenty inches wide. Who can furnish him with such a machine, its cost, etc. Address Mr. Wright.

G.W.A. Simpson, of Jackson, La, wishes to pur-chase some earthenware drain pipes. Will some of our readers please to inform him where they can be pro-

M P., of Vt.—We sent the remonstrance against the Woodworth patent extension to Mr. Sabin, of your State.
John B. Kendall, of Wisconsin—Wishes to procure a machine, if one can be obtained, for working Windson chair bottoms

P. R. B. of N. Y.—You had better write to the Tribine office for an explanation of the excess of postage charged by the Postmaster. We do not know the reason for the difference in charge. We are not able to answer your inquiries about the relative strength of the British

and American navy.
J. J., of Ky.—We have entered your name for six month s subscription. We cannot supply a single number f Vol. 5, Scr. Am.,
E. F. F., of Vt.—We do not give advice under the law

of copyright. It is not a part of our business.

L. G., of N. Y.—Vibrating propellers like the tails of

fish, have been often proposed, but the action of the common rotary propeller is similar.

G. H., of Ala.—Your buckets obviate water lift in the paddle wheel, but they involve the evil of beating the face of the water, and producing great concussions.

H. N. B., of N. Y.—Your wind mill is very old and not patentable. In Vol. 3 Sci. Am., you will see an engraving of the same plan. Your remarks on the patent laws

S. W., of Conn.—" Gould's House Carpenter and Join er's Assistant," is a very good work; you can purchase it at all the large bookstores.

H. P., of Ill.—A ten-horse power engine will run you two set of thirty-inch stones. Be sure and get a good

strong boiler—one that will generate plenty of steam.

A. C., of Conn.—The sheet copper for lightning conductors can be obtained in this city at Knox's. 215 Fultor

M. J. W., of N. Y.—We cannot give you the informa-tion desired respecting the way to estimate the power re-quired in driving a machine like a lathe; it must be measured by a machine called a dynometer; the informa tion desired about water wheels will be found in another

J. R. McW., of N. Y.-Cheap soft soap can only be made with cheap materials, such as a cheap oil or grease and a cheap alkali. If you make your lye of sal soda and quick lime, and use the cheapest grease you can find you will make good soft soap without much trouble.— When, in boiling, the contents of the kettle become ropy it is a sign that the union of the alkali and grease is effect

T. G. M., of Hampton Falls.—You are wrong a ing the use of a small boiler and keeping it red-hot to generate steam rapidly. Water, when thrown upon a red-hot iron plate assumes the spheroidal condition and evaporates very slowly. The application of a recoil spring to a saw mill gate is not new: but it is a good de-

vice. A Newbury & Co., of Windham Center, N. Y., wish to correspond with a manufacturer of plow handles.
W. B. Y., of N Y.—We do not discover the slightes

novelty in your marble sawing machine; we have seen a score of models which embraced all the features con tained in yours.
C. C., of N. Y.—We do not know the name of any firm

in Providence engaged in the manufacture of spy-glasses McAllister & Brother, of Philadelphia are reliable man u actures of such glasses

T. J. de Y., of N. Y.—Having received a patent upon your device as a pump, you cannot now obtain a new pat ent for the same thing applied as a churn.

C. P. Lines, of Le Raysville, Pa., wishes to procure reedsfor weaving wire; some of our readers can doubt-less give him the desired information.

C. C., of Mass.—We have recently had frequent inquiries in regard to J. A. Quimby & Co.; we are not acquainted with them, and therefore knownothing of their responsibility.

C. E., of Mass.—The best way to prepare solidified milk is to concentrate it in vacuum by means of an ap paratus for the purpose.

H. McC., of Pa.-You will have as much head of water by using a syphon, as by tapping the box, but the tap will be the most convenient.

D. A. R., of N. J.—We cannottelly outhe price of hardened india rubber per pound, such as is used for making buttons. It is slightly elastic, and types might be made

I. H. N., of Vt.-We have repeatedly stated our belief that the Bain telegraph is entirely different in its nature from that of Prof. Morse, but the friends of the latter as-

sert that every recording telegraph is an infringement.

P. M., of Ill.—We sympathie with you in regret for the death of your son. He, however, has not lived in We will take the other subject mentioned in your letter into consideration.

Money received at the Scientific American Office on account of Patent Office business for the week ending Saturday, March 8, 1856:—

A. M. B., of Mich., \$55; S. H., of Mass., \$30; W. R. T.

of O., \$25 : H. C. H., of Vt., \$35 ; J. C., of Pa., \$20; B, & J., of Mich., \$30 ; W. S., of N. Y., \$30 ; A. G. F., of Ill., \$30; H. K., of Mass., \$30; W. W. B., of N. Y., \$30; J. B., of 111., \$600; E. F., of Conn., \$27; J. H. O., of O., \$20: J. W. B., of Md., \$25; J. W., of Del., \$30; S. B., of Conn., \$30; R. C. B., of Ill., \$30; R. D., of Pa., \$35; J. E. N., of Ind., \$25; M. & J. H. B., of N. H., \$30; J. S., of N. Y., \$30; H. W. O., of Conn., \$50; W. H. F., of N. Y., \$20; R. M. H. & Co., of N. Y., \$100; S. T. J., of N. Y., \$150; E. C. P., of N. Y., \$30; T. E., of Pa., \$55; J. C. B., of N. Y., \$55; J. J. B., of N. Y., \$30; B. F. J., of Mo., \$55; P. J. C., of Conn., \$30; J. & H. O., of Ind., \$30; E. G., of Vt. \$33; T.H., of N. Y., \$35; W. S., of Pa., \$25; J. W. M., of N. J., \$30; A. C. F., of Conn., \$25: D. J. O., of Pa., \$25; J. C. A., of Conn., \$30; K. & B., of N. Y., \$30; W. D. U., of N. C., \$30; A. L. C., of Mass., \$30; J. T. B., of N. Y., \$25; McG. & B., of La., \$25; J. P., of N. C., \$200; W. H. L., of S. C., \$40; H. & S., of N., \$25; J. H. W., of Mass., \$25; J. C., of N. J., \$30; W. D. T., of N. Y., \$50; W. H. F., of

N. Y.,\$10; S. H., of Mass., \$25; W. H. B., of Mass., \$27. Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent

Office during the week ending Saturday, March 8:— J. C., of Mo.; W. H. L., of S. C. (2 cases); M. & J. H. B & Co., of M. H.; E. F., of Conn.; H. & S., of N. Y.; J. W. B., of Md.; J. B., of Ill.; D. J. O., of Pa.; W. B. G., of N. Y.; J. H. W., of Mass.; W. S., of Pa.; A. C. F., of Conn.; J. C., of N. J.; N. M., of N. Y.; J. A. A., of Conn.; J. T. B., of N. Y.; McG. & B., of La.; R. H., of Vt.; J. C. B., of N. Y.; T. E., of Pa.; W. H. F., of N. Y.; S. H., of Mass.; W. H. B., of Mass.

## Important Items.

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liability of their being mislaid.
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Saw Mills, for sawing logs 12 feet long, with portable
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27 2\*

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24 3\* eow

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

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