

TO CORRESPONDENTS.

"B. T. of Me."—The quantity of water discharged through an opening of 100 inches area and over a fall of 6 feet is 3,81 cubic feet, (100 is the radical.) To produce one horse power with a six feet fall, will require an area to discharge 2 5-8 cubic feet per second of about 49 inches. Water falls through a space of 4 feet in half a second, 16 feet in one second, &c. You will see that it is not possible to occupy room to answer all your questions, but you will find an answer in Leonard's Mechanical Principia—a book which all Millwrights should have. Some Corn Shellers work faster than others. See on front page.

"D. B. of Mass."—We have forgotten who the inventor of that Wadding Machine was, or where he resides. If we hear from him again we will address you by letter.

"M. D. of Ala."—You have guessed right as to the cause of the paper being stopped. — Yes, send P. O. stamps.

"E. W. of N. Y."—For a full description of Daniel's Planing Machine, see No. 7, vol. 4. We have one of that description to sell for \$250 cash. Galvanized iron would answer your purpose and would not rust.

"A. G. L. of O."—That machine is worth more to a person who wants to use it here, than to ship so far as your place.

"B. B. of Boston."—We have had no reply yet to these enquiries we have made of you. Send on the duplicate certificate of deposit and we will straighten the business at once.

"H. T. S. of Ohio."—We have received the amount you enclosed, and will carefully prepare your papers.

"C. C. L. of Mass."—We have heard of a clock that was invented a few years ago in Mass. to wind itself up, and there are clocks now in operation that never need to be wound up at all—no chains, weights, &c. required. They will go for a hundred years—and are now in our city. They are operated by electro magnetism.

"G. M. of Mass."—Address a letter G. M. Carleton, Brunswick, Maine, and your questions will be answered. We think it is an excellent invention and have a model of it at our office. We can probably give you the information in regard to the new process of tinning in a few days.

To Patent Correspondents.

"B. B. of Me."—We should not advise you to send your model to Washington until you have applied for letters patent. The Commissioner will not notice it, and you only expose your invention without deriving any information. Many thanks for the fine list of subscribers last received from you.

"G. A. G. of Ct."—Some of your inventions appear very good and are apparently worth patenting. If we have an opportunity to do anything for you we will address you by mail.

"G. W. C. of Maine."—To be compelled to read that specification which you sent to us is a very hard task. No wonder Commissioner Burke returned it to be condensed. We will attend to it the first leisure day we have, or if you are in a hurry for it please send five dollars and we will attend to it immediately. The model, drawing, &c. are all received.

"C. D. M. of N. Y."—We cannot attend to your business unless you place the model in our possession and pay in advance the required sum. You should have applied to us first and then your business would have been attended to properly.

"H. D. C." "F. H. A." "N. C. F." and "C. H. M. & Co."—We sent your specifications and drawings to the Patent Office last Wednesday, and will write to you by mail as soon as we have returns from the Commissioner.

"C. McC. of Pa."—A patent was applied for last Spring, for a machine on the same principle, and constructed very nearly like yours.

"M. R. C. of Mass."—We will attend to your patent business as soon as the model comes to hand. Thirty dollars received, all right

"W. F. of N. J." and "S. T. of N. H."—We shall be able to attend to your business next week. Thirty dollars from each received.

"C. B. H. of N. Y."—Both of your patent

cases are being attended to this week. We shall send the specifications to you for signing next week.

We wish that our Correspondents would be as brief in their communications as possible and particularly do we desire that they would not close their letters by saying "Please send a bill of your charges for the information solicited and we will forward the amount by return of mail" Now Gentlemen that is not the way we desire you to do. We wish you to be your own judges as to what the information is worth to you and send such amount as is your pleasure to do, and in all cases we shall be perfectly satisfied.

Tall Telegraph Poles.

Probably the "Tallest" specimen of Telegraph poles in the world is to be seen where House's Philadelphia line crosses the Hudson river. On the New York side a single pole has been erected, the peak of which is considerably higher than the cross on Trinity church steeple. It is over four hundred feet above the surface of the river. On the Jersey shore the pole is erected on the Pallisades, close by Fort Lee, and its peak it about seven hundred and fifty feet above the river. The distance between the two poles is about one mile and two steel wires are suspended across—probably the most successful achievement of the kind in the world.

Advertisements.

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 printed dailies.

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Persons residing in the city or Brooklyn, can have the paper left at their residences regularly, by sending their address to the office, 128 Fulton st., 2d floor

SITUATION WANTED.

A young man who is thoroughly acquainted with tools and is accustomed to making Models, turning wood, iron &c. desires a situation in a Machine Shop in this City where his talents would be appreciated. Address C. A. C. Scientific American office. It*

SUPERIOR ENGINE LATHES.

We are manufacturing and selling at our establishment in New London, Ct. a superior article of Screw Engine lathes and also hand lathes of every dimension at an extremely low price. Address ALBERTSON, DOUGLASS & CO. Post Paid [d26m] New London, Ct.

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BENLEY'S Patent Tubular and other Boilers of any size, shape or power, made to order, by SAMUEL C. HILLS & CO. 43 Fulton st.

ECONOMY OF FUEL AND PREVENTIVE OF SMOKE AND SPARKS.

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All Communications will meet with prompt attention. Address HARVEY GUILD, New Orleans, La.

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Now is the time to subscribe, as those sending first will receive the first impression of the engravings. The Nos. can be furnished from July 1848, if wished by subscribers—that month commencing the previous volume.

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Table with 2 columns: Quantity (One copy one year, Five copies, Twenty), Price (\$ 1 00, \$ 4 00, \$ 15 00)

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Johnson's Improved Shingle Machine.

THE Subscriber having received Letters Patent for an improvement in the Shingle Machine, is now ready to furnish them at short notice, and he would request all those who want a good machine for sawing shingles, to call on him and examine the improvements he has made, as one eighth more shingles can be sawed in the same given time than by any other machine now in use. Manufactured at Augusta, Me and Albany, N. Y. J. G. JOHNSON. Augusta, Maine, Oct. 26, 1848. o28 1y

The largest, best and cheapest Dictionary in the English language, is confessedly WEBSTER'S,

the entire work, unabridged, in 1 vol. Crown Quarto, 1452 pp. with portrait of the author, revised by Professor Goodrich, of Yale College. Price, \$6.

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Containing three times the amount of matter of any other English Dictionary compiled in this country, or any Abridgment of this work, yet

"Its definitions are models of condensation and purity. The most complete work of the kind that any nation can boast of."—HON. WM. B. CALHOUN.

"We rejoice that it bids fair to become the standard Dictionary to be used by the numerous millions of people who are to inhabit the United States."

—Signed by 104 members of Congress. Published by G. & C MERRIAM, Springfield, Mass., and for sale by all booksellers. s23 2m*

To Mill Owners.

HAVILAND & TUTTLE'S Patent Centre Vent Pressure Water Wheel.—These wheels are now in successful operation in many towns in Maine, Massachusetts, and Rhode Island, and are found to surpass in power and facility of adaptation any water wheel now in use. This wheel was awarded the silver medal at the Fair of the American in tribute recently held in New York and a diploma at the Mechanics' Fair in Boston.

The wheels are manufactured and for sale by the FULTON IRON FOUNDRY CO., South Boston, Mass.—where the wheels can be seen and any information concerning them had. Patent Rights for different States, Counties, &c. for sale, as above. o14 3m*

Portable Saw Mill.

FOR SALE CHEAP.—A first rate up and down saw, for boards, planks and heavy work, already fitted up with frame, table, fly wheel, &c. Length of saw 4 feet 6 inches. Price for the whole \$60.

Also for sale, a first rate up and down saw for sawing out curves. It is in complete order, already set in frame, with table, fly wheel, band pulley, &c.—Length of saw 2 ft. 6 in. Price for the whole \$35.

They can be sent with perfect safety to any part of the country. Any one wanting either or both the above has only to enclose the amount named and the saws shall at once be forwarded. MUNN & CO. Scientific American Office, New York.

GENERAL PATENT AGENCY. REMOVED.

THE SUBSCRIBER has removed his Patent Agency from 189 Water to 43 Fulton street. The object of this Agency is to enable Inventors to realize something for their inventions, either by the sale of Patent Goods or Patent Rights. Charges moderate, and no charge will be made until the inventor realizes something from his invention. Letters Patent will be secured upon moderate terms. Applications can be made to the undersigned, personally or by letter post paid. SAMUEL C. HILLS, Patent Agent.

Johnson & Robbins, Consulting Engineers and Counsellors for Patentees. Office on F street, opposite Patent Office, Washington, D. C. j17 1f

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THE subscriber is constantly building his improved Lathes of all sizes, from 7 to 30 feet long, and can execute orders at short notice.

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THE undersigned having become interested in the manufacture and sale of the above article, would state that their facilities are such, that they can supply any demand at short notice. This hinge, having stood the test of two years trial, has fully established itself as a useful and important invention, being all that can be desired for blind trimmings, as the blind is managed entirely from the inside of the house without raising the sash, completely locks it, and prevents all unpleasant noise of the blind by wind.

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The public won't swallow that gammon, gentlemen, and you had better put your prices down to Knox's standard price, before he detracts all those regular customers from Broadway into Fulton st. o7

Daniel's Patent Planing Machine.

WE have now on hand one of these machines which we will dispose of for the very low sum of \$250. It is capable of planing boards, timber or any stuff from 16 ft. long by 25 inches wide, down to pieces of the smallest dimensions. It is so simple as to be easily managed by a boy, and operates with great rapidity and beauty. Any number of pieces of different thicknesses or lengths can all be planed down even at one operation. It performs a day's labor of one man in 20 minutes.

We can send it with perfect safety to any part of the United States. MUNN & CO. Scientific American Office, New York. Letters must be Post Paid. n18

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It dresses and joints properly, and with facility, the rived, or other stave, of ALL shapes and dimensions, without assorting and without waste of stock. It needs only to be seen to be approved. n4 8w*

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