

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.

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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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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*

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