

TO CORRESPONDENTS.

"P. F. of C. W."—An electro magnetic engine is simple. It is simply a walking beam, connected at one end to a shaft by a crank, and the other end attached upwards by an electro magnet—and the circuit broken to give it a reciprocating motion. You may use one or more electro magnets and arrange them differently—employing them to attract both ends, but the principle is the same. There is also the electro magnetic rotary engine; it is very common and can be purchased at any philosophical instrument maker's.

"J. G. J. of Me."—Your letter of the 7th is received with contents. We are about making such arrangements as will warrant us to engage in the sale of your mills but as yet our plans are not fully consummated. We will write you by mail soon, and then inform you what we will do, and how much commissions we shall be obliged to charge you.

"C. R. of Mass."—We have wrote twice for the claim but have not got it yet, but will in all likelihood in a few days. We are sorry for the delay, but cannot help it.

"T. S. of S. C."—You enquire, how you can braze cast iron. We should like to know how to do this ourselves, and so would thousands of others. You may fill up the holes of cast iron by molten metal in a certain way, and you can cement cast iron joints by a paste of iron filings and sal ammoniac. Copper and brass are brazed by spelter solder. The hard solder for brass or copper, is made with brass and one sixth of zinc. The surfaces to be soldered must be very clean and the solder laid upon the joint, it having been first wet with a solution of chloride of zinc by a feather, and the brazing iron then applied. You had better not try to force water the distance you represent, if you wish to keep the mill going.

"C. D. R. and N. M. of Ms." "T. & E. B. of N. Y." "G. W. of Me." "L. B. W. of Vt." "A. J. of R. I." and "D. C. F. of Va."—Your specifications and drawings have been forwarded to the Patent office and certificates of deposit sent as full payment for the amount of fees.

"R. S. C. of Mich."—Your Camera Lucida was forwarded by express last Tuesday.

"H. S. of N. Y."—You will see the receipt upon our last page. It is the readiest way we could send it. Use more of the chlorate and sulphur, as you want them good. It is the gum that preserves them from moisture—is inglass is better however, but still nothing is a perfect proof against the damp.

"E. C. of P."—You will see by last Scientific American that Electro Magnetic engines are not new. We know not wherein Mr. Page's differs from others.

"W. H. D. of Ms."—Your machine for gold washing seems very novel and is certainly worthy the application for letters patent. It is the best machine we have yet seen for the purpose which you design it and at the present time the amount of sales would at once pay the expense of a patent—send on your model and your business shall be promptly attended to. The cost of making the application after you furnish us with a model will be \$50 which amount pays all fees.

"H. W. C. of Ms."—Your patent business is progressing and the papers will be sent to you for signing next Monday.

"I. F. B. of Ga."—Your model has come to hand and your business shall receive immediate attention.

"E. H. of Ms."—We shall send your caveat for signatures in a few days.

"J. M. M., C. E. of Pa."—Thank you for the favor of the 7th. We shall be pleased to hear from you at any time; those communications are well received.

We have a number of communications which we shall answer next week.

Next week we shall present splendid engravings of a new machine for morticing the frames of Blinds. It is a beautiful and ingenious machine.

Hints to Dyspeptics.

This is a very neat and useful volume for 25 cents, by Joel H. Ross, M. D. of Amity st. this city. It treats of diet, exercise, air temperature, &c. and does so in a very pleasing and entertaining manner.

Bust of General Taylor.

We have received from Thomas Blanchard, Esq. a small marble bust of the President, carved by his machine. Those who are desirous of seeing the perfection of machine labor, can see the old hero, by giving us a call. The fidelity of the machine, far surpasses the hand. Its minute tracing defies all the skill of the artist.

Universal History of the World.

No. 4, vol. 2 of this splendid and able history by G. C. Hebbe, LL.D., has just been issued by Dewitt & Davenport, Tribune Buildings. This history is a very comprehensive and profound one, and to the lover of Biblical history especially, it is a rich and refreshing treasury of knowledge.

The "Farmer and Mechanic," a monthly periodical published at Toronto, Canada West, by Eastwood & Co., is a very good and valuable work, containing much information for farmers especially.

Publishers' Notice.

Those of our subscribers who have paid but one dollar on the present volume of the Scientific American, will please bear in mind that their subscriptions expire with this number. To those of our friends who have so liberally supported us during the past 6 months, we tender our heartfelt thanks, and those who have appreciated our efforts to furnish them with the latest and most important information upon scientific and mechanical matters, will, we are confident, renew their subscriptions and consider themselves still members of our great family. We hope that those who wish their papers continued, will not neglect to make their remittances as early as possible, in order that they may not be disappointed by our being unable to furnish the back numbers. MUNN & CO. Publishers.

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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. These advertisements in this paper are regarded with much more attention than those in closely printed dailies.

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Any business connected with the Patent office may be done by letter through the Scientific American office with the same facility and certainty as though the inventor applied in person. During the past 3 years we have been constantly applying for Patents and what is a remarkable fact but 2 cases have been refused at the Patent Office and those 2 were afterwards granted by reapplication. Our prices too (another important consideration to inventors) are but about half as much as the charges of most agents as the amount of business which we do, and that in connection with the publication of the Scientific American renders to us superior advantage over all other agents.

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All models, drawings or communications that are sent to the Scientific American office for inspection are deposited from the eyes of the public until the necessary application for securing the invention has been made.

The best of artists are constantly employed to make drawings from models and our corps of specification writers are composed of gentlemen formerly connected with the Patent office at Washington as Examiners.

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Persons desirous of obtaining patent rights of this invention for any of the Southern or Western States, will apply to the undersigned Patentee (the rights for the states of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, Michigan, Ohio, Pennsylvania, Delaware, Maryland, the 11 northern counties of New Jersey, and the District of Columbia, are all sold off.)

S. LICHTENTHAELER.

Lititz, Lancaster, Co., Pa.

NOTICE.—All power of attorney given to C. H. Farnham, has been cancelled, and is hereafter null, and void, and he is therefore no longer authorized to sell, or transact any business appertaining to the above invention for me S. LICHTENTHAELER. j27 2m*

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