TO CORRESPONDENTS.

M. C., of Ill.—The sketch of your improved Corn Planter has been examined, and we are of the opinion that it possesess novel features; it is different from Groshon's. You can send us a model at any time, by

H. M. C., of Ohio.-In this section iron is not rolled as you state, the machines now used for that purpose are much more convenient and economical than the one described in your letter. We cannot advise you to apply for a patent, as it is probable that none could be obtained for the mere addition of a supplementary

A. P., of N. C.-Muriatic acid consists of chlorine and hydrogen; it is contained in great abundance in sea water, in combination with soda and magnesia Oxygenated muriatic acid is another name for chlo

S. L., of Ill.—The books have been sent. If your diamond is spoiled in the point, we know of no one who re-points such instruments. The expense will be about as great as a new one, for the edge of a cutting diamond is a natural one.

G. W., of Mass.-It will probably be about 2 months before your application will come up for examination -the applications seem to be accumulating at the office.

E. W., of N. Y.-For particulars concerning back volumes of the Scientific American, see notice in No 27, Vol. 6. We could not exchange the Scientific American for Sear's works.

C. L. E., of Mich.-We have not the name of Mr. McCallance upon our books at your place, and the meaning of your letter we do not understand.

A. J., of O.—No doubt but your friend would make a good agent for us, but we do not employ agents to travel and canvas for subscribers for the Sci. Am., as those other papers do; our circulation is maintained and extended by voluntary subscribers and good local agents like yourself.

J. G. E., of N. C.-The \$3 which you enclosed for Mr. Pipkin we have credited to him on account of subscription, as you directed.

"G. B., of Ct.-As long as you receive the paper you may conclude that you are not in debt to us. We have but one custom, and by it all our patrons are served alike, viz., when the time has expired for which a person has paid his subscription, we stop the paper until again ordered. We never present bills for unpaid subscriptions.

M. R. L., of Miss.-Your plan of bringing the crank past.the "dead points," is ingenious and new; but we do not see what gain is derived; we do not see any loss in the simple crank, and we know of no arrangement to equal it in simplicity and effective action. We would advise you not to waste money on the invention.

E. A. H., of Ill.—The best work on Electricity, & is \$1,25; Snow Harris's small work is good, costs 62 cents. We cannot give you the information about the cast and wrought iron.

W G. G., of N. Y.-We will publish the informa tion you want before closing the articles on Hydraulics.

L. H., of Ohio.—There is nothing novel in your plan for a rotary; spring valves have many times been shown us in connection with this subject. They will not do, this you may depend upon. We should like to entertain the good opinion you speak of, if possible, but we feel confident it cannot be made to work. We examined a rotary, not long since, in operation here, essentially the same as yours. It required too much steam to drive it.

A. D. B., of Geo.-Your polite favor of the 21st ult. is received, with \$4. In regard to the models, you have done perfectly right. No apology is necessary.

H. M., of Vt .- The sketch of the bevel plane has been examined: we regard the contrivance as sufficiently novel to justify an application for a patent, and request you to forward a model. It can be sent by express or otherwise, as you may find it conve-

S. S., of Pa.—Your gun is very ingenious, and your remarks exhibit a humane heart.

C. W. P., of Pa.—See pages 281 and 293, Vol. 5, Sci.

Am., for good whitewash receipts.
G. L. F. B., of Me.—There are various ways o making a door operate a bell when it is opened. We do not see how a claim could be based on your arrangement. The moisture does not affect Maynard's percussion paper. The floating bridge is made to float any train, so as never to sink below the track, although it may be a quarter of an inch above it. It is nothing new.

J. S., of Pa.-There is a most excellent article or Steam and "Stame" in one of the London magazines. There is something about explosions which appears to be inexplicable, but the great root of the evil is reck.

T. W., of N. Y.-It is not possible to give a correct rule for calculating the loss of power by back-water, unless the force of the back-water is known, and the amount (weight) of water carried back by the buckets. By a little reflection you will see the force of this. We will give you the other information next week. We did not take into consideration the back lift, because it was not spoken of.

T. J. K., of Va .- A man will lift twice as much with a two foot lever as a foot one, but then he will take double the time: whatever is gained in power is lost in speed. A lever does not create power

H. U., of N. Y.—The power of the press is not generally required to be more than ten times the multi ple of one.

S. P. S., of Ohio-You will have all the rules you want for calculating the power of wheels, before our articles on Hydraulics are finished.

L. R. P., of Me.-Your favor of the 2nd inst., is received and the amount credited to the respective subscribers. We shall examine your diagrams as early as possible.

T. R. C., of Ill.-There are very many machines for drilling and planting corn now in use. We do not remember to have seen one precisely like yours, and think a patent could be obtained on a limited claim. A modelwillbe required.

J. H., of Thio.-In answer to your favor of the 27th ult.. we would state that we have no knowledge of the improvements referred to, and think they could not have amounted to anything practicable, or we should have known it. We are unable to refer you to any new improvements made of late in this branch.

T. L. P., of Md.—The pump you refer to is an excellent one we believe. Mr. W. will be called upon to answer your inquiries.

M. G., of Charleston, S. C.-By macerating a small piece of new-baked bread in cold water, sufficient to dissolve it, the taste of the latter, if alum has been used by the baker, will acquire a sweet astringency; or a heated knife may be thrust into a loaf before it has grown cold, and, if it be free from that ingredient. scarcely any alteration will be seen on the blade; but if the alum has been used, the blade, after being allowed to cool, will appear slightly covered with an alumineus substance.

E. G., of N. Y. City.—A very simple test for lead nd copper metals in wine and cider, exists ready formed by nature: peur into a glass of suspected wine, cider, or perry, a few drops of Harrogate or Strathpeffer water; if any lead or copper be present, it will fall down in the state of a black percipitate being combined with the sulphuretted hydrogen, by which these waters are impregnated.

S. H. W., of Mo.-We do not believe you can obtain a patent for your arrangegement. Substantially the same device was secured by patent to A. Mc Kinney, of this State, a few month since.

R. E., of Geo.-Non-conductors are substances which carry off free electricity slowly when touched by an electrified body; or, if their condition of electrical indifference is disturbed at any one point, they become electrical at that point only; and if the whole surface be excited, and they are then touched by some conductor connected with the ground, they part with their free electricity only at the point of contact Their characteristic is, that they retain free electricity for a length of time, and that they check its mo-

E. C. & G. A., of Mass.—Your communication o March, in regard to the polishing iron, will come up as soon as possible.

A. E. J., of Miss.—In Resumer's Thermometer the freezing point is marked 0, or zero, and the boiling point 80 deg. The degrees are continued, of the same size, below and above these points, those below be ing reckoned negative.

E. B., of Ct.—Your papers have been carefully filed away for future reference. We thought the plan new, and for aught we knew, useful.

Money received on account of Patent Office busi ess since April 2 :-

G. J. W., of Me., \$25; W. J. McA., of Ga, \$75; C. L., o. Phila., \$28; H. P., of Mass., \$20; J. G., of Mass., \$28; D. A., of N. Y., \$50; M. C. B., of N. H., \$15; G. W., of Ky., \$65; S. C. A., of N. Y., \$30; J. B., of Mass., \$20; W. B., of O., \$20,25.

Specifications and drawings of inventions belonging to parties with the following initials, have been forwarded to the Patent Office since April 2:

T. & G., of N. Y.; A. S. B., of N. Y.; G. J. W., of Me.; H. P., of Mass.; D. A., of N. Y.; M. C. B., of N. H., and J. B., of Conn.

New Edition of the Patent Laws

We have just issued another edition of the Ameri can Patent Laws, which was delayed until after the adjournment of the last Congress, on account of an expected modification in them. The pamphlet contains not only the laws but all information touching therules and regulations of the Patent Office We shall continue to furnish them for 121-2 cts. per copy.

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Patent Claims.

Scientific American.

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Berlin, Conn., Nov. 1, 1850.

Timuly

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DICK'S GREAT POWER PRESS.—The public are hereby informed that the Matteawan Company, having entered into an arrangement with the Patentee for the manufacture of the so-called lick's Anti-Friction Press, are now prepared to execute orders for the following, to which this power is applicable, viz.—Boiler Punches, Boiler Plate Shears, Saw Gummers, Rail Straighteners, Copying and Sealing Presses, Book and Paper Presses, Embossing Presses, Presses for Baing Cotton and Woollen Goods—Cotton, Hay, Tobacco, and Cider Presses; Flax-seed, Lard, and Sperm Oil Presses; Stump Extractors, &c. &c. The convenience and celerity with which this machine can be operated, is such that on an average, not more than one-fourth the time will be required to do the same work with the same force required to do the same work with the same force required to do the same work with the same force required by any other machine.

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19tf

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