# Scientific American.

#### TO CORRESPONDENTS.

60<sup>2</sup>

J. McS., of Cal.-The interest which so many Californianstake in the success of the SCIENTIFIC AMERICAN, is an evidence of their superior information.

F. W., of Ohio.-We cannot understand why the en should have more power, or go faster, cutting off at half stroke, than when receiving steam the whole stroke. It is contrary to the generally received theory; and Corliss & Nightingale's is not the only engine having a governor ap plied to the cut off to regulate in the manner they do. We cannot judge of the patentability of your cut-off without a drawing. If the idea we get from your description is correct, there is nothing essentially different to many others in common use.

G. F. H., of Mass. - We have not not yet seen Prof. Hall's electric engine. We were promised a sight of it some time since, but as yet the proprietors have not divulged.

W. B. G .- Your plan for sealing fruit jars is not new o patentable.

R. W. A., of Ct .- The penalty for not putting the real date of the patent upon the article, is \$100 for each offence One-half goes to the government-the balance to the com plainant.

C.S., of Mass.-There is nothing new in your safety can device

W. G. G., of Pa.-Cannot say whose is the best patent for bending stufffor small boats. E. M. G., of N. Y.-We published an engraving of a

locipede on page 369, vol. 3, Soi. Am.

G. & W., of N. C.-We think there is a chance for a patent on your sash arrangement. Send on model and government fee of \$30 whenever you are ready to proceed. J. R. A., of N. Y.-We regard your horse power as

and patentable. Send on model-also \$30 government fee. A. L., of Pa.-You cannot carry water practically much higher than 30 feet by a syphon. Theoretically, it should

be about 33 feet, that being the hight of a column of water which equals the pressure of the atmosphere. W. H., of Ill .- You would find no saving effected by using

the vapor of alcohol, at the same pressure as steam. Steam can be generated at a high, as easily as at a low tempera

L. L., of Conn .- The Engineer and Machinists' Drawing Book, by Blackie & Sor, of this city, at fifty cents per num ber, will instruct you how to draw gears.

H. H. W., of S. C .- It affords us pleasure to pay a tribute to the zeal which the mechanics of your place have dis-played for the spread of useful information.

R. G., of N. Y .- Do not despair in seeking to invent some improvement from which you can realize something hand some. Many inventors have toiled far longer than you, and under far greater disadvantages, and yet arose out of them all conquerors. Watt and Arkwright obtained wealth.

T. F., or Ky - There is pleaty of coal in Kentucky, and your State must ultimately become great for manufacturing. You have men of genius among you; let them give it free

L. G. E., of Ala.-Your letters patent and letter covering \$20 are both at hand. On the receipt of your model, we will advise upon the points of inquiry by mail.

F. W. B., of Vt.-We think it doubtful whether a patent could be obtained for your invention. A movable breech, substantially like yours, has been employed, operated by a lever under the stock, by which it was raised high enough to be loaded, and when loaded, lowered into its place. We are inclined to think that merely making the breech movable by hand, to substitute another one frit, would not be considered an improvement, but rather a less convenient arrangement.

H. B & O. S. W., of Ind.-Of course you cannot both make affidavit to the invention, if but one of you invented it, even if you are partners in business, and manufacture the machines together. We will alter the specification so as to have O. S. sign it, and make affidavit to it, and send an assignment making over o H. B. one undivided half of O. S.'s interest. The papers will be sent to you in a few days. Full instructions in regard to executing the papers rill accompany them. I. H. D., of N. Y.-Glue is made from the skin and sinews

of animals. The process is complex, but we may describe it at some future time.

R. T., of N. J.-Your invention appears to be a good one although the improvement is small ; you no dou it can obtain a patent. If well managed, it may be very remuner of tive to you.

H. C., of Mass.-There is still room for improvemen s in potato-digging machines.

H. W. W., of Pa.-A cubic foot of water weighssixty-two and a half pounds. A. McS., of C. W.-Do not lose sight of agitating a good

Patent Law for Canada, at the next meeting of the Patliament.

R. M. F., of N. Y .- The steamship Arago has oscillating cylinders. J. K., of N. Y .- Sofar as we can learn, no fabrics are

made in our country, nor any other. from flax cotton. It may be used in some places mixed with cotton.

O. N. T., of Coun.-You must endeavor to present your missle to the Czar. It will be a terrible instrument in the hands of those who first use it.

B. R., of Pa.-We will endeavor to give you some inform ation about boiler incrustations in a week or two at furthest A. McN., of Ohio.-You cannot obtain a patent for the

two processes described in your letter. You must get two patents to cover them. W. P. P., of Md.-The British Association for the Ad-

vancement of Science meets at Glasgow, Scotlaud, in Sep-Your paper will no doubt receive marke lember next. attentionfrom its members; many of them are distinguished engineers.

\$30; G. B. A., of Ct., \$30; W. W. Van L., of N. Y., \$50;
E. R. B., of Ct., \$30; W. W. B., of N. Y., \$30; J. E., of
Mass., \$32; J. Q., of Ct., \$25; M. & S., of N. C., \$38.50;
F. A., of N., Y., \$30.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, July 21 :--

G. S., of Ala.; G. C. K., of Mich.; J. Q., of N. Y.; E. G., of Mass.; W. N. G., of Ct.; E. K. B., of Ct.; M. S. S., of N. C.; J. W. K., of N. H.; A. H., of N. Y.; J. B. D., of O.; 0. & W., of Wis.; F. A., of N. Y.; C. B. B., of Ill.; K. H.,

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PATENT LAWS, AND GUIDE TO INVENTORS-Congress having adjourned without enacting any new laws pertaining to applications for patents, we have issued a new edition of the old laws, which may be had at our counter or sent by mail. This pamphlet contains not only the laws but all information touching the rules and regulations of the Patent Office Price 121/2 cents per copy.

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Extrac States Patent Office, Washington, July 12, 1855. On THE PETITION of Benj, Tatham of New York, and Geo. N. Tatham, of Philadelphia, praying for the extension of a patent granted to them on the 11th day of October, 1841, for an improvement in machine-ry for making pipes or tubes of lead, thi, and other me-tallicsubstances, for seven years from the expiration of issual patent, which takes place on the 11th day of October, 1855: It is ordered that the sold patitive

tailic substances, for seven years from the expiration of isad patent, which takes place on the 11th day of October, 1855: It is ordered that the said petition be heard at the Patent Office on Monday the 24th day of Meptember, next, at 12 o'clock, M.; and all persons are notified to appear and show cause, if any they have, why said petition ought not to be granted. MPersons opposing the extension are required to file in the Patent Office twict objections, specially set forth in writing, at least twenty days before the day of hearing; all testimony filed by either party to be used at the said hearing must be taken and 'ransmitted in accordance with the rules of the office, which will be furnished on application. The testimony in the case will be closed on the 14th day of Sept. 1855; depositions and other papers relied upon as testimony must be filed in the office on or before the morning of that day; the arguments, if any, within ten days thereafter. Coriere, Buffalo, that this notice be published in the Union. Intelligencer, and Evening Star, Washington, D. C.; Pennsylvanian. Philadelphia, Penn, Scientific American. New York; Daily Baitimore Republican, Courier, Buffalo, and-Post, Boston, Mass, once a week for three successive weeks previous to the 24th day of September next, the above papers will please copy and send their bills to the Patent Mice, with a paper con-taining this notice. TOR SALE-A PORTABLE STEAM Hoisting

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