TO CORRESPONDENTS.

E. P., of Tex.-The second half of that \$5 bill came safely by Saturday week's mail. M. D. W., of O.-We obtained a patent on the

same invention for B. D. Sanders, of Hollidaysbury Va., in 1849, there would be no hope for you should you apply. P. L., of B. Island.-You cannot employ a soft

bar of iron in the tube, for the mercury will perforate the iron and flow through it. The permeability of metals by mercury is the subject of an interest ing paper by Prof. Horsford. It is difficult to make a good working thermometer.

A. J M., of S. C .- You had better keepyour back numbers and read them, but if you are not disposed to do so, return them to our office, and we will cre dit your account with them.

C. L., Jr., of Ct.-We had an order for those back volumes before yours was received.

W. M., of Boston-Have you tried any experiments with the thermometer to produce the effects spoken of? We do not see how it can operate as an ticipated, for the increase of temperature is so small in proportion to the increase of steam pressure, that it will not prove to be a sensitive alarm. We do not advise you to make application for a patent until you have tested its merits.

A. R. M., of Ct.-Do you mean the Mitra Bevel if so, we have seen a number with a sector arc on them.

A. G., of D. C -It is not our province to enter into a personal controversy with D. E., he has a perfect right to his opinion, although wrong. We make out the contents of 1 ball 6 inches dia., and 2 of 5 inches dia., to be 2499976 cubic inches-a very different sum from that presented to us in both cases.

R. H., of Wis.-You can obtain such information about the Whitelaw & Stirratt Wheel as you solicit of John Finley, Cold Spring, N. Y.

E. B., of N. H.-The principle upon which you propose to construct a planing machine, is, we think, now employed for cutting out staves and shingles, and its application to board dressing could not be patented. Perhaps you might send us a sketch and description of it for further examination.

I. H. G., of Iowa-We have no disposition to take the case out of the hands of your chosen agents they will doubtless manage for you the best they can. The Patent Office is about four months behind. we should judge. \$1 received and credited.

S. S. B., of N. Y .- Is your gold not too much alloyed? We have never understood there was any difficulty in getting it malleable. Three grains of copper to the ounce of gold, and sometimes ten are employed by the beaters. We shall make inquiries on the subject.

A. B., of Pa.-You can solder any piece of iron or another, by taking a solution of the chloride of tin. and wetting the gun barrel with this on the spot you wish to solder, by a hair pencil, then place on the bar and solder like a piece of tin. Potassium is found in wood, it becomes potash by burning, which is effected by the combination of the oxygen with the metal undergoing combustion.

G. McP., of E. Tenn.-We have no interest in the Sash and Blind Machine, and cannot give the required information; you had better address the advertiser.

S G., of Pa -Thos. Blanchard, of Boston, Mass. took out a patent for bending wood some two years ago. A. W. Johnston, of St. Georges, Del., has also a patent for the same purpose.

N. F. McC., of Miss.-We think you had better fur nish us with sketches and a description of your improvements that we may be able to judge more correctly respecting them. We should think your gin new and patentable.

J. E., of R. I.-We have carefully examined the sketch and description of your alleged improvements in stop-motion for power looms, and think it sufficiently novel to warrant an application for a patent, There are many different devices for the purpose, and it is not so easy to decide fully, still we have seen many but none like yours.

J. N., of Va.- Mr. Hoyt has remitted the 75 cents expense on minerals.

J. N. F., of Washington.-By stepping into the Pateut Office you will find a number of switches operated by the locomotive. If yours is different from any other, a patent can be obtained for it.

C. L. A. of D. C.-We have been told that the principal projector was Mr. St. John, but the project has more than one head connected with it.

G. J. M., of Conn -Overman's Metallurgy is as good a work in one volume as you can get. It is published by Appleton & Co., this city.

G. & S., of Ohio-Your assig

B., of O., \$10; J. G., of Mass., \$30; N. G. D., of L. I., \$35.

Specifications and drawings belonging to partie with the following initials have been forwarded to the PatentOffice during the two weeks ending Saturday, July 10 :

D. P. G., of Ind.; H. L F., of Ill.; T. H. D., of N. H.: C. W. B., of Mass.; D. P., Jr., of N. Y; N. G. D., of L. I.; B. H., of O.; C. P. L., of Ga.; J. P. P.,, of L. I.

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MARYLAND INSTITUTE FAIR-The Board MARVLAND INSTITUTE FAIR—The Board M of Managers of this Institute will hold the Fifth Annual Exhibition in the Grand Saloon of the Institute Building, in the city of Baltimore, com-mencing on the 4th day of October next. The great facility thus afforded for a splendid display of Ame-rican Manufactures, they hope, will be a sufficient inducement for the Manufacturers, Mechanics, Ar-tiats, Inventors, and others throughout the United States, to contribute such specimens of their indus-try, skill, and ingenuity, as shall be alike honorable and creditable to the mechanical genius and refined taste of the country. The Hall will be open for the reception of goods on Monday the 27th Sept. next, from which time to Thursday night, Sept. 30, articles intended for competition and premium must be depo-sited. The balance of the week will be devoted to the recaption of articles intended for exhibition on-ly, free of charge. After which time depositors will be subject to a charge of 50 cents to \$1. On Mon-day, Oct. 4, at 7 o'clock, P. M., the Exhibition will be open forthe reception of visitors. Circulars con-taining the regulations and arrangements establish-ed by the Standing Committee on Exhibitions, can be had by addressing (post-paid) JOHN S. SELBY, Actuary of the Maryland Institute, by whom any in-formation required will be promptly given. 39 7

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