

TO CORRESPONDENTS.

"W. D. L., of Ind."—We are unable to furnish you any information upon the subject referred to. Geo. Page of Baltimore has an improved augur for boring wells of any size or depth. Perhaps you had better address him.

"J. T., of Ala."—We do not know of any second-hand lathe such as you speak of for sale. You had better furnish a correct description of such a one as you want, and we will hand it to some builder and get the price. No one can tell about it from your letter.

"S. J., of N. H."—A model of your invention must first be furnished before an application can be made for a patent, as the drawings are made from it. You would have to make two applications. Patents are granted for 14 years.

"N. A., of Richland, N. Y., J. H. P., of Alexandria, Va., J. T. P., of Tusculumbia, Ala., J. G., of Greenville, Miss."—Have each a bound volume 4 in this office, and will be forwarded as they may direct. They cannot be sent by mail.

"A. J. S., Geo., J. M. S., of Miss., D. T. of N. Y."—Have bound books in this office which cannot be sent by mail. Please advise us how they shall be forwarded.

"J. O. H., of Mass."—We do not think your churn possesses any novelty. The same principle has been applied for within a short time, but it has been familiar to us for a long time. You could not in our opinion obtain a patent for it.

"J. T., of Va."—Arnot's Architect complete will contain 12 Nos., 8 of which are now ready. Your numbers were sent on the 28th inst.

"J. W., of Wisconsin."—There is no premium offered for a perpetual motion. A magnetic engine would not be considered a perpetual motion—far from it. We cannot tell exactly how much has been propelled by such an engine, very little has been done up to this time to determine the power of magnetism.

"J. C., & G. F. F., of N. H."—Your specifications and drawings have been withdrawn from the Patent Office and will receive attention in a few days.

"A. E. E., of Ala."—The price of the Physical Atlas is \$55. Geography \$1.25 and Mantell's Wonders of Geology \$4.75.

"S. H. P. of Arkansas."—The foundation of the grant of letters patent was established April 10 1790, three years after the signing of the constitution. The Secretary of State, the Secretary of War, and the Attorney General, were constituted a board, any two of whom could grant letters patent; citizens, aliens, and foreigners were placed upon equal terms. No oath was required, and no examination, was had as at present. This law was repealed by the act of Feb. 21, 1793, under this act patents were only granted to citizens—this remained in force until 1800, when patents were granted to aliens, who had resided here two years.

"Z. H., of Mass."—It is possible that a combination of the two principles which you propose, under your particular form of arrangement, might be patentable. A great many patents exist on water wheels, and we could not decide upon the patentability of a new one, unless we had very correct drawings or a model.

"J. D., of Ohio."—We do not believe that you can accomplish what you propose, and would advise you not to spend any money on the project.

"H. W. G., of N. C."—We will endeavor to collect verbally all the information you want and give it by letter. Your were right about the jarring, injuring the fermenting. Is your fermenting room kept at a proper and even temperature always? The climate may have some effect which practice alone on your part will remedy.

"G. D., of Ind."—We received positive assurance from an Englishman, who had used the mixture that it would destroy rats,—there must be something wrong somewhere.

"J. T., of Phila."—The composition you speak of would not answer at all for separating gold. Quicksilver is the cheapest and the best, because there is no loss.

"M. M. H., of N. Y."—We do not think that your augur will answer so well as a jumper for boring rocks. M. G. N. Millerstown, of Pa., received a patent on the 28th of August, 1849, but not Doane. His claim is for the cutter with bevelled edges, and with a compound longitudinal and rotary motion very different from yours.

"B. A. W., of N. Y."—The springs for fastening the plane iron is not new, but it is public property and useful. We cannot see the advantages of your mortising machine as represented, and we do not think it could be patented.

"W. T., of Schenectady."—Your ideas about explosions are perfectly correct and sound.—We could not judge whether the two claims could be embraced in one patent or not, without a more particular description. If we saw the tools we could judge clearly of the matter.

"L. K., of Va."—Get an engraving published in the Sci. Am. It will be of great advantage to you, every inventor should do this.

"Dr. B. McK., of Ala."—The Barkometer costs \$3 in this city; we can send it to you if desired.

"A. M. B., of Ohio."—We should require a more elaborate drawing and description of your "Mill Dam," before we should care to express an opinion. It is better for you that we should have a clear view of the matter before rendering advice upon a point that may be of great importance.

"S. S. S., of N. Y."—Please to send us a drawing of your plan of straining bed cords, we do not understand it.

"C. J. A., of Pa."—We think you have hit upon an excellent plan, and you had better send forward the model with a little delay as possible. The other matter is scarcely worthy of your attention just now.

"A. D. S., of N. Y."—Your ideas about atmospheric pressure are not correct. Hydrostatic pressure is equal upon all sides, and greatest on the bottom, according to depth. If you be more careful in coming to conclusions, you will come out right for the common principles.

"J. E., of C. W."—We will try and do yours justice in a short time.

W. S. K., of Conn.; J. G. G., of Boston; A. L. J., of Ohio; O. L. S., of Miss.—

Your specifications and drawings have been forwarded to the Patent Office, and the fees paid.

Money received on account of Patent Office business, since April 24, 1850:—

E. B. F., of N. Y., \$20; K. E. C., of Ky., \$80; S. A. G., of Conn., \$15; C. E. A., of Mass., \$20; A. J. P., of —, \$30.

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During the late fine weather in England, Lord Ross has been able to make use of his splendid telescope to great advantage, and has added three new nebulae to his former important discoveries.

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We are no longer able to supply back Volumes of the Scientific American, complete, of 1, 2, 3 and 4. Our readers will please bear this in mind. Of Vols. 3 and 4 we can furnish sets of about 40 numbers each (not consecutive,) for one dollar per set; of Vols. 2 and 3, sets of about 50 Nos. (containing both Vols.) at the same price (one dollar). We have parcels done up ready for mailing of all the different Vols. referred to above, and on receipt of \$1, either of the sets ordered will be immediately forwarded by mail.

Notice

Whenever any of our friends order numbers they have missed—we shall always send them, if we have them on hand. We make this statement to save much time and trouble, to which we are subjected in replying, when the numbers called for cannot be supplied.

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Patent Office.

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Sawyers, who are still using the old stiff jointed Noddle Pin in your saw mills, know ye not that G. Hotchkiss, of Windsor, N. Y., has invented and received letters patent for the "Equilibrium Noddle Iron," a new article that will prove the "ne plus ultra" for connecting the pitman and saw, as it has given entire satisfaction wherever tried, even by those who would hardly look at it at first. Its peculiar advantages are lightness and durability, being attached directly to the lower stirrup by a four pointed knuckle or pivot, in such manner that it can vibrate in either direction. It drew the first premium on miscellaneous articles at the State Fair at Syracuse. All orders (post paid) addressed to HOTCHKISS & SAGE, Windsor, Broome Co., N. Y., will receive immediate attention. 32 5\*

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having obtained a patent for certain important improvements on an apparatus for examining the bottom of vessels, rivers, lakes, etc., denominated the "Submarine Examiner," is now prepared to furnish the instrument to nautical adventurers, or to dispose of rights on favorable terms. This invention is admirably adapted to aid divers in making search under water, also for all kinds of fisheries, as it emits light from under the surface of the water, which tends to attract most "finny tribes" (and has the power of a telescope through which objects may be seen a great depth.) A description of this invention may be seen illustrated in No. 4 Vol. 5, Scientific American. Good and responsible Agents are wanted to sell this invention in this and other countries. Address (post-paid) WILLARD DAY, Montague Place, opposite the City Hall, Brooklyn, L. I. 32 2\*

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TO IRON FOUNDERS AND MACHI-

nists in the Northern and Eastern States.—The Subscriber, sole agent for the sale of rights to make and sell the celebrated Bogardus Horse Power, will contract with any one disposed to manufacture the best horse power in the world, upon reasonable terms. Address GEORGE VAIL, Morristown, N. J. 1am 1y\*

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