Scientific American.

numbers. We have always freely criticised the proceedings of the American Institute, from the MISSING NUMBERS-Mail Subscribers who have failed to landable motives of stirring up the members to do something worthy of note. We heartily wish that this Institute could be made an index of the genius.industry and science of our people, but it never has been. This city is the very spot to conduct such an institution, and no doubt the present one might be so managed as to be anhonor and benefit to our whole country. There are some very able and spirited members and officers in it; their energies, however, appear to be tied down by a temporizing policy of "pleasing with a rattle, and tickling with a straw."

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TO CORRESPONDENTS.

J. H. C., of Ky.-You would see by the last number of the Sci. Am., which was printed before your letter came, that your plan for keeping butter is not exactly new have no doubt but it was new to you, but we have had thereceipt a long time in our possession.

G. J. M., of Ct .- We have never seen the galvanic pile employed to deposittin on iron or copper; and the reason, we presume, is, that it does not require the expense of the battery to do so.

J. L. H., of N. Y .- Either Parker's, Reuben Rich's Vandewater's, Jagger, Treadwell & Perrys, or Caleb Rider's are good wheels, and will answer your purpose. Of course, you must have enough water to do the extra work, you intend to give to a new wheel.

B. M. H., of — .- Your two spike drums, will be the exactly the same as the mill now used for breaking coal. It does not require four times the power to give double velocity in machines, where the resistance the same at every point, as in a double machine, with

one moved with half the velocity. E. H. B., of Ill.-The paper of Lieut. Hunt was an able one, but with its conclusions we do not agree: in some parts he was, we believe, reported incorrectly. C. W. of Pa.-We cannot recommend a better plan than Bulkley's, to season it with currents of hot air is

very good and not patented. J. B. A., of N. Y.-You will find in the Scientific American three weeks ago, a very excellent plan for pre

venting boilers from scaling. M. F. N., of Md.-The Pennsylvania Polytechnic, we believe, is in operation in Philadeiphia. You speak truly about youngmechanics; more of them would go to col

lege to learn science, if languages were left out; this they now can do at Yale, and Cambridge-Lawrence H. F. N., of Ohio .- Your governor is the very same as

that employed on clocks for the same purposes W., of Vt .- We cannot give you the relative

D. A. strength of the extracts you speak of, or we should do so; the pamphlet is not yet published. It does not hurt sumac to boil it for cotton; it is best it should be.

R. C. L., of Ala .- The advantage to be gained by a rotary engine is the applying rotary motion direct to a shaft; the motion has to be changed in a reciprocating one. The essential points to be aimed at are evenness of wear in all parts, and a small amount of friction surface. There are many simple rotary engines in use; success, surely, is all that is desired. We cannot answer you about Bristol's engine at present.

W. G. B., of Ga.-The best work for youis Scott's Engi neers Assistant, but it costs \$24, we believe.

J. L. H., of N. Y.-Perhaps you have all the power your fall can give, if not, put two wheels on one shaft, on Parker's plan.

E. S. P., of Tenn .- Your alleged improvement in horse powers contains no patentable features. We have seen the same thing before. E. W. C., of N. J.-Thompson obtained a patent last

year, for an auger for boringArtesian Wells. We know nothing of a caveat having been filed.

E. W. S., of Mass .- We are not in possession of any information respecting the patent saws of Nova Scotia, and cannot, therefore, advise with you in regard to securing patents for them.

of Ill,-Black's Work on Brewing is as good as any. It is sold by Appleton & Co., 200 Broadway. J, V., of N. H .- We do not know where Porter's Patent Press is made.

W. D., Jr., of Pa.-Yourannunciator sa new thing. If you can make it operate well, it would supersede all others in use, as they are liable to such objections as you enume

J. H. K., of Pa.--Your plan of Paddles is not new, except ing the angle. which is wrong. It would not do to llftthe stern, for that would make the bow dive into the water; the very thing that should be avoided.

W.O.G., of Conn.-We have never known of a ditching machine constructed as described in your letter of the 10th inst. You had better try it.

J.S. L., of N. Y .- We know nothing of Stodard's machine. Wood'spatent. sold by J. D. Johnson, Bridgeport, Conn., is a good machine.

J.E., of Mass.-If your perging machine interferes with Gallahue's, you cannot use it; if it is different from his and all others, a patent can be secured for it.

D.B. of Mass - You had better forward us a model of your corn husking machine. We should think it new judging from the meagre description given in your letter.

A Chapter of Suggestions, &c. receive some of the numbers of Vol. 8, are informed that we are able to supply them with any of the num-

bers, from 1 to 52, EXCEPT the following, and these we are ENTIRELY out of-Nos. 2, 4, 10, 12, 14, 15, 16, 17, 18, 19, 20, 21, 22, 25, 26, 47, 48, 49, 50. TO CORRESPONDENTS .- Condense your ideas into as brief

space as possible, and write them out legibly, always remembering to add your name to the communication anonymous letters receive no attention at this office If you have questions to ask, do it in as few words as possible, and if you have some invention to describe. come right to the business at the commencement of your letter, and not fill up the best part of your sheet In making apologies for having the presumption to address us. We are always willing to impart information if we have the kind solicited.

PATENT LAWS, AND GUIDE TO INVENTORS-We publish and have for sale, the Patent Laws of the United States -the pamphlet contains not only the laws but all information touching the rules and regulations of the Pa tent office. Price 12 1-2 cents per copy.

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uniformstyle with their previous volumes. Price of binding 75 cents.

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BACK NUMBERS AND VOLUMES-In reply to many interro gatories as to what back numbers and volumes of the Scientific American can be furnished, we make the following statement: Of Vols. 1, 2, 3, and 4-none. Of Vol. 5, all but six numbers, price, in sheets, \$1; bound, \$1,75. Of Vol. 6, all; price in sheets, \$2; bound, \$2,75. all; price, in sheets, \$2; bound, \$2,75. Of Vol. 8, all: price, in sheets, \$2: bound, \$2.75.

PATHYTERS-Remember we are always willing to execute and publish engravings of your inventions, providing theware on interesting subjects, and have never ap peared in any other publication. No engravings are inserted in our columns that have appeared in any other journal in this country, and we must be permit-ted to have the engravings executed to suit our own columns in size and style. Barely the expense of the engraving is charged by us, and the wood-cuts may, be claimed by the inventor, and subsequently used to advantage in other journals.

GIVE INTELLIGIBLE DIRECTIONS-We often receive letter with money enclosed, requesting the paper sent for the amount of the enclosure, but no name of State given and often with the name of the post-office also omitted Persons should be careful to write their names plainly when they address publishers, and to name the post office at which they wish to receive their paper, and the State in which the post-office is located.

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Co. R. C. BRISTOL, Patentee. 1 MERICAN ENGINEERS ASSISTANT-Lately published.—The American Engineer, Draftsman and Machinist's Assistant, designed for Practical Working-men, Apprentices, and those intended for the Engineer. ing profession, illustrated with 200 wood cuts, and 14 large engraved Lithographic Plates, of recently con-structed American Machinery and Engine Work; by Oliver Byrne. Embracing—Mathematical and Drawing Instruments. Geometrical Problems, Brackets and Pillow Blocks, Lubricators, and Electric Steam Gauge. Horse Power, Parallel motions, The Indicator, Safety Valves, High Pressure Engines, Steamship Engines and Boilers, Rotary Engine, Locomotives, Screw P opellers, Ericsson's Caloric Engine, & c., &c. The work is published in one large 4to vol., handsmely bound, and sold at the low price of \$5. It will be sent to any part of the United States free of Postage, on receipt of the amount by mail. Alberal discountmade to Agents and Booksellers. Ad-dress, C. A. BROWN & CO. Publishers. N. W. Cor. of 4th and Arch streets, Philadelphia.

UNRED STATES PATENT OFFICE, Washington, Sept. 28, 1853, New Hampshire, praying for the extension of a pa-tent granted to limon the twenty-seventh day of Dec., 1853, for an improvement in constructing sockets for holding tools, for seven years from the expiration of said patent, which takes place on the twenty-seventh day for December, eighteen hundred and fifty-three— It is ordered that the said petition be heard at the Pa-tent Office on Monday, the 18th of December next, at 12 o' olock, M.; and all persons are notified to appear and show cause, if any they have, why said petition ought not be granted. Persons seposing the extension are negative.

not be granted. Persons opposing the extension are required to file in the Patent Office their 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 transmitted in accordance with the rules of the office, which will be furnished on application.

Whit the futes of the once, while application, also, that this notice be published in the Union, Intelligencer, and Evening Star, Washington, D. C. Pennsylvania, Philadelphia, Pennsylvania, Evening Port, and Svientithe American, New York; Boston Post, Boston, Massachusetts-and Patriot, Concord. New Hampshire; Enquirer, Cincinnati, Ohio, once a veck for three successive weeks previous to the second Monday of Janwarv next the day of hearing. uary next, the day of hearing. CHARLES MASON, Commissioner of Patents.

P. S. - Editors of the above papers will please copy and send their bills to the Patent Office, with a paper con-taining the notice. 63

WATTS, BELCHER & CO.—Machinists, Manu-facturers of Steam Engines, Lathes, Planing Ma-chines, and Machinist's Tools of all descriptions. Job-bing promptly attended to. Passaic Works, Passaic st. Newark, N. J. WM. WATTS, ZACHARIAH BELCHER, & CHO. WATTS. 64*

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TO INVENTORS-A gentleman who designs tra-velling through the manufacturing districts of Eng-land, to introduce an invention, would negotiate with any person having a valuable patent. for its introduc-tion and sale there. Application may be made by let-ter, in the first place, directed to box 1536, Boston Post Office. 1

The subscriber begs leave to bring to the notice **ATHEMATICAL OPTICAL INSTRUMENTS.** In the subscriber begs leave to bring to the notice of the professional community, his new and extensive assortment of the above instruments, which he partly imported direct from the most celebrated makers in Eu-rope and partly had manufactured under his own per-sonal supervision. The undersigned would particularly invite attention to his very large and complete assort-ment of the justly celebrated Swiss Mathematical Draw-ing Interuments, for the sale of which in this country he has the sole Agency, and which he can furnish at from \$5 to \$200 per case. Orders from any Part of the Union promptly extended, and price list sent if required. 36eow C. T. AMSLER, 224 Chestnut st., Philadelphia.

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