



R. H., of Pa.—Smoke-burning locomotives are common in England, where bituminous coal is employed, but such are not required where anthracite is used for fuel.

T. J. R., of Ohio.—Sound is produced by the vibrations of the atmosphere, and the sensation is conveyed to the mind through the nerves of the auditory organ.

C. C., of D. C.—What is meant by stating that "aniline exists in coal oil" refers only to the crude product of coal distilled at a lower temperature than destructive distillation.

W. M. M., of Wis.—We have no copies of No. 1, Vol. V. (new series) of the SCIENTIFIC AMERICAN.

C. C. P., of Ohio.—You have not clearly expressed what information you desire to obtain respecting your copper tubes, or we should have cheerfully given it.

Walter Brown, of La Crosse, Wis., wishes to purchase a machine for making round matches.

C. E. L., of Mo.—We cannot decide upon your articles until we see them. The subject is rather hackneyed, but you may be able to present some new views of it.

G. W. H., of N. Y.—Several patents have been granted for machines capable of sawing two sides of a tapering marble monument. By referring to the back files of the SCIENTIFIC AMERICAN you will find the claims.

C. S. M., of Mass.—A machine for turning off grindstones and keeping them true, while in use, was patented on June 5, 1860, and illustrated in Vol. VI (new series), No. 32, on page 376 of the SCIENTIFIC AMERICAN, by George C. Howard, of Philadelphia.

D. E., of N. Y.—We think but few of our readers would be interested in the subject of lenses, or the difference between one kind and another.

C. C. S., of Mass.—You will find an illustrated description of Dr. Page's electro-magnetic engine on pages 65 and 68, Vol. VII. (old series) of the SCIENTIFIC AMERICAN. There is no manufactory of electro-magnetic engines in the country, but any maker of electrical apparatus will make you one to order.

J. H. M., of Mass.—We have answered this question so many times that we must refer you to Vol. VII (new series), No. 12, page 187, of the SCIENTIFIC AMERICAN for a full account of the way in which engineers are appointed to the navy.

A. J. C., of Ohio.—We think your case is in the hands of reliable men. That class of claims in which yours is ranked has not yet received attention from the Government, and it is impossible for the agents, mentioned in your letter, to say when they will be attended to.

F. G. M., of Mich.—We advise you to procure a steam engine by all means. There are no caloric engines in the market of the size and power you want, or that would at all suit your purpose.

W. T., of N. Y.—We are not in possession of the displacement of the steamers City of Baltimore or Merrimac, nor yet their relative horse-power. The paragraph in question was copied from a daily journal.

Money Received

At the Scientific American Office, on account of Patent Office business, from Wednesday, June 3, to Wednesday, June 10, 1863:—

R. H. G., of N. Y., \$75; J. G. W., of N. Y., \$275; G. F. J. C., of N. J., \$20; W. D., of Ohio, \$20; G. N. D., of Ky., \$20; J. B., of Iowa, \$20; E. C., of N. Y., \$16; J. McC., of N. Y., \$10; W. M. D., of N. Y., \$1; E. P., of Ill., \$20; M. C. E., of N. Y., \$20; M. B. W., of Conn., \$45; A. C. F., of N. Y., \$36; T. R., of N. Y., \$44; T. F. B., of N. Y., \$16; J. B. C., of Conn., \$16; J. D. W. W., of N. Y., \$16; L. and H. of Mass., \$30; B. and B., of N. Y., \$20; F. C. P., of N. J., \$20; L. and H., of Pa., \$20; J. I., of Ohio, \$20; H. and W., of Ohio, \$17; A. B., of N. Y., \$16; F. B. P., of Mass., \$10; A. W., of N. Y., \$20; H. M., of N. Y., \$46; J. F. McK., of Pa., \$20; J. K. H., of Ind., \$20; W. M. B., of Ind., \$85; N. A. B., of N. Y., \$21; A. T. W., of Md., \$45; J. W., of Iowa, \$15; R. D. N., of N. H., \$25; A. S., of Ill., \$25; J. F., of N. Y., \$25; H. J. D., of Ill., \$15; I. J. F., of Iowa, \$15; A. B. K., of C. W., \$22; A. W., of N. Y., \$25; J. and S., of Mich., \$25; A. B., of Vt., \$25; C. W. T., of Mich., \$15; G. W. W., of Pa., \$16; S. P. L. A. D., of Iowa, \$15; J. T., of Wis., \$16; R. H. B., of N. Y., \$25; L. and B., of Ohio, \$30; R. P. P., of Wis., \$35; L. and S. B. H., of Mass., \$16; G. M., of Ill., \$15; J. H. A., of Mich., \$26; E. B., of Mass., \$25; T. J. B., of Ohio, \$16; J. H. C., of Va., \$20; W. McK., of Pa., \$16; R. B. R., of N. Y., \$46; D. H. and P., of Wis., \$15; G. C., of N. J., \$16; J. K., of Cal., \$16; C. M., of Mass., \$25; W. M. B., of Ind., \$85; W. H. M., of Conn., \$41; J. S. B., of Ill., \$15; H. J. H., of Conn., \$25; S. W., of Mass., \$25; I. S. A., of Mass., \$25; W. B. R., of Mich., \$25; E. P., of Md., \$25; S. T. S., of Mass., \$16; C. H. P., of R. I., \$12; G. and H., of Mass., \$16; A. C. F., of N. Y., \$16; C. M., of N. Y., \$20; J. H. J., of N. Y., \$86.

Persons having remitted money to this office will please to examine the above list to see that their initials appear in it, and if they have not received an acknowledgment by mail, and their initials are not to be found in this list, they will please notify us immediately, and inform us the amount, and how it was sent, whether by mail or express.

Specifications and drawings and models belonging to parties with the following initials have been forwarded to the Patent Office from Wednesday, June 3, to Wednesday, June 10, 1863:—

J. F., of N. Y.; A. S., of Ill.; R. D. N., of N. H.; A. B., of Vt.; J. and S. of Mich.; R. H. B., of N. Y.; A. W., of N. Y.; L. and B., of Ohio; R. P. P., of Wis.; F. and K., of Cal. (2 cases); D. G. H., of Mass.; E. P., of Md.; S. W., of Mass.; W. B. R., of Mich.; J. H. A., of Mich.; J. S. A., of Mass.; H. H. J., of Conn.; C. M., of Mass.; T. R., of N. Y.; C. H. P., of R. I.

Magazines and other Publications received.

THE PRACTICAL DRAUGHTSMAN. Published by Henry Carey Baird, Philadelphia.

This work is one of practical utility to every person connected with the mechanic arts. Its tables of contents embraces treatises on and illustrations of gearing, slide valves, steam cylinders and their appurtenances, and many other specialties, which will be found extremely valuable to all, whether proficient or unskilled in science.

TREATISE ON THE PARABOLIC CONSTRUCTION OF SHIPS AND OTHER MARINE ENGINEERING SUBJECTS. By J. W. Nystrom, C. E. Published by J. B. Lippincott & Co., Philadelphia.

We have received a treatise on the parabolic construction of ships by John W. Nystrom, C. E., and we owe the author an apology for delaying a notice of his work so long. The work is carefully written and is issued with the object of obtaining more positive rules for the principal lines of a ship or other vessel, as the load water-line, rails in plan, cross-sections, displacement, sheer, &c.

ENCYCLOPEDIA OF CHEMISTRY. By Professor James Booth, A. M., Melter and Refiner at the U. S. Mint. Published by Henry Carey Baird, Philadelphia.

Chemistry touches all arts—agriculture, metallurgy, medicine, dyeing, painting, bleaching, tanning, photography, telegraphy, &c., and as a humorous lecturer upon it once said: "A knowledge of it will benefit every man who boils a kettle and every woman that makes a pudding."

RATES OF ADVERTISING.

Twenty-five Cents per line for each and every insertion, payable in advance. To enable all to understand how to compute the amount they must send in when they wish advertisements inserted, we will explain that ten words average one line.

JOHN WILEY, 535 BROADWAY, NEW YORK, IMPORTS and offers for sale, Truson on the Iron Manufactures of Great Britain. 1 vol., 4to., 81 steel plates, 2d edition, \$20; Bourne's Treatise on the Steam Engine. 1 vol., 4to., last edition, \$21; Bourne's Catechism of the Steam Engine. 1 vol., 12mo., plates, last edition, \$3; C. Wye Williams on Heat, Water and Steam. 1 vol., 8vo., \$3 75; Samuel Clegg on the Manufacture of Coal Gas—last edition, \$12; Gwill's Encyclopedia of Architecture—last edition, \$12 50; Cressy's Encyclopedia of Civil Engineering—last edition including supplement, \$18; Humber on Cast and Wrought-iron Bridges. 2 vols., 8to., last edition, \$55, &c. Scientific catalogue gratis and mailed to any address.

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Chemistry applied to Dyeing. By James Napier. 12mo., \$2. The above, or any of my books, sent by mail free of postage. Every reader of the SCIENTIFIC AMERICAN is particularly invited to send for a catalogue, which will be sent free of postage. HENRY CAREY BAIRD, Publisher of Practical and Scientific Books, 406 Walnut street, Philadelphia.

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