## Scientific American.



the hight to which you can raise the water by that means. An inclined pipe through which water is at lowed to flow rapidly, will make a partial vacuum, and if another pipe leading up from a drain or pool at a still lower level, be connected to it at a favorable angle, the water may thus be induced to rise-a principle, however which is capable of successful application but in a very few situations. Your error is in supposing it capable of lifting from very considerable depths, which it will not The hight of course depends on the velocity of the principal stream, but we should not suppose it capable with

any common velocities of lifting more than 4 or 5 feet.

F. R. W., of Md —Various machines for tempering clay and molding brick have been illustrated in our column Address F. H. Smith, Baltimore, for information on the

telegraph from diving bells moored a few fathoms be neath the water, to avoid the waves at the surface, is more wild and visionary than Prof. Hall's, as it aims to secure none of its advantages. The scheme of Prof. H., f practicable, would afford stations where men might exist and attend to relay instruments, which would give new impulses to the currents in the wire at those point -but yours could not.

C. F. M., of Pa.—Books to aid in constructing steam engines and mill work are very numerous. Robertson Buchanan on "Mill Work" is a good book; John Bourne on the "Steam Engine," is another—both are large books, worth from \$6 to \$10 apiece; Chas. H. Haswell's "Pocket Companion." price \$1.25. is the best in its way of any we know.

J. B., of R. I.—The best work on electricity, and also

the best Chemical Dictionary, happen to be one and the same volume. "The Encyclopedia of Chemistry," price about \$5; published by H. C. Baird, Philadelphia. We

have none of the back numbers you want.

J.C., of Mo.—Three ounces of quicklime nearly slacked, and half an ounce of orpiment powder, mixed well to-gether with water, and formed into a thin paste, makes a good depilatory powder for removing the hair; but all such applications injure the skin.

R. W., of Conn.—The recipes which you have sent are similar to those in Ure's Dictionary.
T. M., of Ct.—The colors on cotton cloth and yarn can

be discharged by the common process of bleaching with chlorine and sulphuric acid. The process is carried out

fully in all our paper mills.

W. C. G., of I'enn. We cannot give you the information desired respecting Tyler's and Heller's water wheels —their relative powers, in comparison with an over-shot wheel, under a 25 foot head. The only true method of determining the power of any wheel is by experiment with a friction brake, an operation requiring considerable trouble and expense, but not as much as might be

S. D. D., of N. Y.—There is no published work in the English language specially devoted to the manufacture of india rubber fabrics.

C. D. G., of Tenn.-Build your steam boiler in with thick brick flues, and erect a high chimney, say 100 feet, and you have less danger of igniting the cotton in your gin house. The employment of wood may compel the use of a spark arrester for safety: use one in the throat of your chimney, where you can reach it by a man-hole It will injure the draft, but insure greater safety from sparks, and this is what you principally want. The best way to season wagon hubs is to submit them for a few to season wagon hubs is to student them lot a lew lours to high pressure steam in a close box. H. C.G., of Phila.—An18-horsepower engine will drive

tworun of 4 feetstones, buta 21 horse-powerengineshould be selected, as this is the calculated power which we think is best. You ask whether a motion of 45, 75, or 100 revolutions per minute is the best, and state that engigineers with whom you have consulted disagree as to all of these speeds. If you can keep the stones well venti-lated, 100 revolutions is the best speed to drive them.—

Whatsay our milling correspondents?

J. M. W., of N. Y.—In making hydrogen gas from water, by passing the latter through a red hot retort containing iron scraps, you must not permit any air to enter with the water, because the oxygen will combine with the free hydrogen and form an explosive gas. Use steam in place of water in generating hydrogen gas from red-hot iron and you will meet with more success.

T. M., of Cal.-We know of no book treating on black smithing or forging in any form.

J. McL., of C. W,—Among so many good force pumps we cannot point out any particular one as the best. Search our files and findfull descriptions and engravings

M. M., of N. C .-- Reaping machines are too nume and good to s. lect from without very particular instruc-tions. Write to the proprietors of all those you find no ticed in our columns

J. H. W., of Va.—Mrs. Somerville's Physical Geography is the best that we know of It was published in Lon don some years ago—has never been republished in this country, we believe, but can be ordered of any respectable bookseller. The æolian harp is constructed by stretching strings at random across a strong beech-wood frame, and placing it in a box or otherwise cased in a window or door, so that a current of air is compelled to

D. & B., of Texas.-Sheet zinc is not so good for roofing as tin. It soon wears out by the action of the weather.

J. H. W., of C. W.—We cannot determine the length of pipe employed, how much cold water a coil of a certain number offeet will heat by steem, and in what time. The pressure of steam used must also enter into the cal-culation. If two feet of 3-inch pipe at 212 deg. will raise a barrel of water to 100 deg in four hours, 300 feet will, no doubt, raise 150 barrels of water to the same temperature in the same time, if the proportionate quantities of

heat are supplied to each.

C. Y. H., of Ohio.—We do not believe that eggs can be preserved in common air-tight cans by simply exhausting the air from them. Try it and report results.

N. & R., of Ind .- We are of opinion that the rag vats and heaters of your paper mill may be heated with the exhaust steam of your high pressure engine.

T. T. E., of Ga -R. E. Schroeder, Rochester, N. Y

makes good carpet fasteners.

A. F. T., of Ky. Your views, and those of Brewster on seeing correct images, although they are inverted on the retina, do not differ. See his article in the last number of the North British Review. A correspondent of ours informs us that images are not inverted on the retina, and he intends, he says, to furnish us with proof to thi

J. H. F., of N. Y.—There is nothing new in the arrangement of the engine cylinders as you propose; a double engine has had two cylinders arranged inclined towards each other an angle of 45 deg. to the horizon consequently at a right angle to each other, their pistons connecting with the same crank. This form of en-gine is more than a quarter of a century old. Your proposed mode of preventing vessels from becoming water. logged has been applied to the construction of lite and the patent law makes no distinction between different kinds of navigable vessels.

R. N., of Vt.—Copal varnish is the best for making

labels adhere to tin boxes. Perhaps butter can be separat d from milk by some chemical process, but not cheaper than by the simple act of churning. Cheese is one of the constituents of milk, described in number 24, this Vol., Scientific American, to which we refer you for answers to all your questions respecting the compo sition of milk. Hydrostatic pressure simply means the pressure of water at rest. It ceases to be hydrostatic when it moves machinery—it is then hydraulic.

Money received at the Scientific American Office on account of Patent Office business for the week ending Saturday, March 7, 1857 :--

M. J., of Pa., \$35; E. E., of N. Y., \$29; S. T. S., of Mass, \$25; J. T. H., of Pa., \$30; M. T. J., of Ohio, \$30; W. W. D., of Cal., \$100; T. V., of Cal., \$25; B. A. H., of N. Y., \$25; T. & B., of Mass., \$30; W. W., of Wis., \$30; W. W., of Ill., \$30; D. R., of O., \$25; D. B., of Iowa, W. M., of III., \$39; D. R., of O., \$25; D. B., of 16Wa, \$25; E. L. E., of R. I., \$12; E. L. & Co., of S. C., \$92; A.R., of Texas, \$55; J. C., of —, \$50; D. W. & H. A. L., of N. J., \$25; E. P., Jr., of Ct., \$25; T. E., of Pa., \$55; H. N. DeG., of N. Y., \$30; E. M., of N. Y., \$30; A. N., of Pa., \$27; J. G. A., of N. Y., \$30; L. W., of N. Y., \$30 : C. W., of N. J., \$30 : W. L. B., of Vt. \$30 : D. R. A., of Ohio, \$25; E. C., of O., \$36; B. B., of Mo., \$90; B. Y. L., of L. I., \$30; J. B. W., of N. Y., \$250; W. A. F., of Ct., \$60; G. V. B., of Mo., \$35; N. E. H., of N. Y. \$30; C. S. M., of N. Y., \$30; J. H., Jr., & Co., of N. Y. \$100; J. B., of N. Y., \$55; S. H., of Pa., \$55; S. S. C. of N. H., \$25; T. B. DeF., of Ct. \$60.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, March 7, 1857:

S . S. C., of N. H. ; J. C. K., of N. J. ; E. E., of N. Y. S. T. S., of Mass.; J. W., of O.; B. A. H., of N. Y.; L. H. A., of Ala.; M. C. R., of O.; S. T. H., of III.; J. S., of L. I.; L. W. & H. A. L., of N. J.; J. D., of N. J.; D. B., of lows; E. L. E., of R. I.; E. P., Jr., of Conn.; D. R., of Ohio; A.N. of Pa.; C.O. L., of Vt.

## Literary Notices.

Homeopathy. Its Nature and Principles.—By George Glewitz, M.D., Stratford, Conn.—Few there are who understand the principles on which the medical science denominated. Homeopathy, is based. A pamplet of fifty pages has been recently written, at the solicitation of some of the author's friends, which explains in a concise manner the principles on which the science of Homeopathy is founced. The writer takes occasion to explain briefly the principles of each variety of medical science, and then an a ble manner sets forth the advantages of the homeopathecal system of administering medicines over the allapathic or antipathical methods. The great discoverer or inventor of Homeopathy has lived in the present century, hence the science is comparatively new. Hahnmann was born in 1750, and lived to the age of 38 years. His life was an active one, and many award to him the name of inventor in the same high rank as Benjamin Franklin, Robert Fulton, Prof. Morse, and other inventive stars of the first magnitude. To those who would like to become familiar with the science and principles of Homeopathy, and to learn something of its feunder, we would recommend the perusal of this pamphlet. Address Geo Glewitz, M.D., Stratford, Conn., inclosing ten 3-cent postage stamps.

The Kenekerbooker—This genuine monthly for

tord, Conn., inclosing ten 3-cent postage stamps.

THE KNICKERBOCKER—This genuine monthly for March is illustrated with a fine steel plate likeness of Fitz Green Halleck. The papers contributed are numerous, able, and interesting. The poetry is unusually excellent, and the Editor's Table, as usual, sparkles with wit and humor. The leading article is a criticism on the poet Shelly. The story of Eleanor Manton is continued, and so are the "Observations of Mace Sloper, Esq." Published by Saml. Ilueston, 348 Broadway, this city.

THE EDINBURGH REVIEW—The number for this quarter of the above-named review maintains its old high character for fearless and able criticism. It pays a mos noble and high complement, in the leading article, to our American historians, Prescott and Mottey, in a criticism on "Philip the Second and his Times." It contains nine saws-not a junifificant on a mong the late "Philips and the property of t essays-not an indifferent one among the lot. Published by Leonard Scott & Co., 54 Gold st., this city.

THE WESTMINSTER REVIEW—The number for this quarter of this radical reforming review contains eight able original essays, besides remarks on cotemporaneous literature. One of the essays on Boiling Water is an able paper, and we shall shortly present its leading features, with illustrations, to our readers. Published by Leonard Scott & Co., 54 Gold st., this city.

Twenty-five cents a line each insertion. We respect fully request that our patrons will make their advertisements as short as possible. Engravings cannot be admitted into the advertising columns.

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HOW TO WRITE—A new pocket manual of composition and letter writings. A popular hand-book, embracing hints on penmanship, choice o: writing materials, practical rules for literary composition in general, and epistolary and newspaper writing, punctuation and proof-correcting in particular; with letters of business, relationship, friendship, and love, illustrated by numerous examples of genuine epistles, from the pens of the best writers, including forms for letters of introduction, notes, cards, etc., and a collection of poetical quotations. Price in paper, prepaid by mail, 30 cts., muslin, 60 cts. The following, in press, will be issued as soon as possible: "How to Talk." or hints toward a grammatical and graceful style in conversation and debate. 30 cents. "How to Behave," a manual of etiquette and guide to correct personal habits, with rules for debating societies and deliberative assemblies. Price 30 cts., muslin 50 cts. "How to do Business," a guide to success in practical life, and hand-book of legal and commercial torms. Same. \$1 will pay for the four works in paper, and \$1.75 in muslin, They will be sent to subscribers, postage prepaid, as fast as issued, by FOWLER & WELLS, 30s Broadway, N. Y.

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