

MINERALS, ETC.—Specimens have been received from the following correspondents, and examined, with the results stated:

J. K.—Your medicine is rhubarb; take as much of it as you please.—V. E. Jr.—Your conclusions, drawn from the tests applied, are not in every case correct; but we have not succeeded in finding the dye.—J. McM.—It is iron pyrites.—G. J. McD.—It is magnetic oxide of iron, quartz colored red by oxide of iron, and chrysocholla or silicate of copper.—M. G. L.—It is a white talc. Use clay and silica, in proportions determined by experimenting with this material.—C. S.—The box of minerals sent contains mica, quartz, garnet, and feldspar, none of which require assay, and black magnetic oxide of iron.—O. S. C.—It is remarkably fine white talc. It can be used as a lubricant, to extract grease, etc., to mark on cloth (as French chalk), and in the manufacture of certain varieties of porcelain.—W. B. L.—It is carbonate of lime, and does not necessarily indicate the presence of silver.—J. H. P.—They have the character of cement rock of partial purity, and their working qualities would have to be tested by a manufacturer of hydraulic limes.—The bottle of water forwarded by Mr. Thompson for analysis contained a considerable amount of organic matter and the chlorides and sulphates of lime, magnesia, and the alkalis. It had an alkaline reaction.

COMMUNICATIONS RECEIVED.

The Editor of the SCIENTIFIC AMERICAN acknowledges, with much pleasure, the receipt of original papers and contributions upon the following subjects:

- On a Marine Railway. By G. A. F.
On the Mouths of the Mississippi. By O. P. S.
On Spiritualism. By L. G. F.
On a Meteor. By P. O. H.

Also enquiries and answers from the following. A. O.—C. G. D. Jr.—J. G. B.—D. E. W.—A. J. K.—N. F.—O. S. T.—R. N. W.—J. A.—F. C. B.—J. N. Y.

HINTS TO CORRESPONDENTS.

Correspondents whose inquiries fail to appear should repeat them. If not then published, they may conclude that, for good reasons, the Editor declines them. The address of the writer should always be given.

Enquiries relating to patents, or to the patentability of inventions, assignments, etc., will not be published here. All such questions, when initials only are given, are thrown into the waste basket, as it would fill half of our paper to print them all; but we generally take pleasure in answering briefly by mail, if the writer's address is given.

Hundreds of enquiries analogous to the following are sent: "Whose is the best fan blower? Who makes induction coils, and what are the prices? What is the price of nitrate of silver in large quantities? Who sells the deodorized bisulphide of carbon? Who sells the best grindstones? Who makes the best steam engine indicators?" All such personal inquiries are printed, as will be observed, in the column of "Business and Personal," which is specially set apart for that purpose, subject to the charge mentioned at the head of that column. Almost any desired information can in this way be expeditiously obtained.

[OFFICIAL.]

INDEX OF INVENTIONS

FOR WHICH

Letters Patent of the United States were

Granted in the Week ending

April 27, 1875,

AND EACH BEARING THAT DATE.

[Those marked (r) are reissued patents.]

Table listing inventions with names and dates, including items like 'Alr. etc., cooling, A. Jas.', 'Alarm and fire extinguisher, S. Sanderson', etc.

Table listing inventions with names and dates, including items like 'Churn, A. Oot.', 'Churn, rotary, C. H. Warren', 'Cigar mold fastening, S. Simonson', etc.

Table listing inventions with names and dates, including items like 'Pot, tea and coffee, Hutchinson and Fairfield', 'Power, transmitting motive, R. T. Smith', 'Press, cider and wine, J. S. Bogle', etc.

Table listing inventions with names and dates, including items like '4,666.—J. S. Shaller, Boston, Mass., U. S., et al. Knitting machine', '4,667.—G. W. Dublinson, Toms River, N. J., U. S.', etc.

Advertisements.

Back Page - - - - - \$1.00 a line. Inside Page - - - - - 75 cents a line. Engravings may head advertisements at the same rate per line, by measurement, as the letter press.

FLEETWOOD SCROLL SAW. Patented July 23, 1872. For all descriptions of light scroll or fret sawing in wood, bone, ivory, shell or metal. For rapidity, precision of work, simplicity, durability, ease of working and low cost, these machines have no equal.

TENTH INDUSTRIAL EXHIBITION, UNDER THE AUSPICES OF THE Mechanics' Institute of San Francisco. Manufacturers, mechanics and others are advised that the above EXHIBITION will be opened in San Francisco on the 17th day of August next, and continue open at least one month.

PATENT COLD ROLLED SHAFTING. The fact that this shafting has 75 per cent greater strength, a finer finish, and is truer to gauge, than any other in use, renders it undoubtedly the most economical.

DESIGNS PATENTED. 8,284.—PICKLE JARS.—C. A. DuVivier, Summit, N. J., et al. 8,285.—MEDAL.—T. R. Hartel, Philadelphia, Pa. 8,286.—GLASSWARE.—G. E. Hatch, East Cambridge, Mass.

TRADE MARK REGISTERED. 2,411.—NOTE PAPER.—J. Leach, Passack, N. J.

SCHEDULE OF PATENT FEES. On each Caveat.....\$10 On each Trade mark.....\$25 On filing each application for a Patent (17 years).....\$15

Model Engines. Complete sets of Castings for making small Model Steam Engines 1 1/2 in. bore, 3 in. stroke, price \$4; ditto 2 in. bore, 4 in. stroke, price \$10, same style as cut.

CANADIAN PATENTS. LIST OF PATENTS GRANTED IN CANADA, APRIL 22 to 28, 1875. 4,665.—C. and L. Gaouette, St. Ann de Stukely, P. Q. Varnish. April 23, 1875.