



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

D. A. R.—Chiefly an amethystine-quartz sand, of little value.—J. G. N.—It consists chiefly of felspar and biotite, a variety of mica. Not valuable.

COMMUNICATIONS RECEIVED.

- On Optical Delusion. By S. E. C., C. W. B.
On the Optical Delusion. By J. P. McD.
On Traveling Rocks. By N. P. S.

[OFFICIAL]

INDEX OF INVENTIONS

FOR WHICH

Letters Patent of the United States were Granted in the Week Ending

July 22, 1879,

AND EACH BEARING THAT DATE.

[Those marked (r) are renewed patents.]

Table listing inventions and their patent numbers, including items like Addressing machine, Air and steam engine, Air compressor, Alarm lock, etc.

Table listing inventions and their patent numbers, including items like Monkey wrench, Mop head, Mop wringer, Musical instrument, etc.

Table listing inventions and their patent numbers, including items like Reamer for deep wells, Rein supporter, Saccharine and other liquids, etc.

Table listing inventions and their patent numbers, including items like Sash lock, Sash supporter, Saw cleaner, etc.

Table listing inventions and their patent numbers, including items like Saw, Sawing machine, Sewer trap attachment, etc.

Table listing inventions and their patent numbers, including items like Sheet metal shaping machinery, Shingles, Slate, etc.

Table listing inventions and their patent numbers, including items like Steam boiler, Street sprinkler, Suspenders, etc.

TRADE MARKS.

Table listing trade marks and their assignees, including items like Blind awning fixtures, Carriage springs, etc.

DESIGNS.

Table listing designs and their patent numbers, including items like Carpet, Carpet pattern, Door handle, etc.

English Patents Issued to Americans. From July 25 to July 29, inclusive.

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I.—INVENTIONS, DISCOVERIES, AND PATENTS.

Table listing contents for I.—INVENTIONS, DISCOVERIES, AND PATENTS, including items like Spar Torpedo, New Bubble Blower, etc.

II.—MECHANICS AND ENGINEERING.

Table listing contents for II.—MECHANICS AND ENGINEERING, including items like To Propel Boats, Strength of Boiler, etc.

III.—MINING AND METALLURGY.

Table listing contents for III.—MINING AND METALLURGY, including items like Fusible Metals, Natural Soap Mine, etc.

IV.—CHEMISTRY AND PHYSICS.

Table listing contents for IV.—CHEMISTRY AND PHYSICS, including items like Astronomical Notes, Electric Blowpipe, etc.

Table listing contents for V.—NATURAL HISTORY, NATURE, MAN, &c., including items like The Meridian Circle, Swift's Comet of 1879, etc.

VI.—MEDICINE AND HYGIENE.

Table listing contents for VI.—MEDICINE AND HYGIENE, including items like Intravenous Injection of Ammonia, Alleged Cure for Rattlesnake Bite, etc.

VII.—SCIENTIFIC MEETINGS, EXHIBITIONS, ETC.

Table listing contents for VII.—SCIENTIFIC MEETINGS, EXHIBITIONS, ETC., including items like Cincinnati Industrial Exhibition, U. S. Fish Commission, etc.

VIII.—INDUSTRY AND COMMERCE.

Table listing contents for VIII.—INDUSTRY AND COMMERCE, including items like Shall We Have a Canal or Ship Railway?, California Coal Fish Trade, etc.

IX.—PRACTICAL RECIPES AND MISCELLANEOUS.

Table listing contents for IX.—PRACTICAL RECIPES AND MISCELLANEOUS, including items like Notes and Queries, How to Preserve Chick, etc.