

descent of the products of combustion on their way to the escape flue, substantially as described.
2d, An exposed coal magazine, D, an illuminating ring, C, an annular fire chamber, A, and a hollow base, B, arranged and combined substantially as described.

2d, The cradle, A, provided with openings in the bottom, a, a', in combination with the adjustable slides, e, e', and spring or springs, B, constructed and made in the manner and form and for the purposes described.

3,084.—HANDLE OF SPOON OR FORK.—Augustus Conradt, Philadelphia, Pa.
3,085.—FORK OR SPOON HANDLE.—Augustus Conradt, Philadelphia, Pa.

EXTENSION NOTICES.

John J. Weeks, of Oyster Bay, N. Y., having petitioned for the extension of a patent granted to him the 26th day of September, 1854, which patent was surrendered and application made for reissue in four divisions, for an improvement in harvesters of grain and grass, for seven years from the expiration of said patent, which takes place on the 26th day of September, 1863, it is ordered that the said petition be heard at the Patent Office on Monday, the 7th day of September next.

Inventions Patented in England by Americans.

1,250.—HEATING AND VENTILATING APPARATUS.—John Johnson, Saco, Me. April 16, 1868.
1,728.—REMOVING INK AND COLORS FROM PAPER, ETC.—Joseph A. Veazie, Boston, Mass. May 26, 1868.

MANUFACTURING, MINING, AND RAILROAD ITEMS.

The largest gold brick ever seen in Montana was lately on exhibition in a bank in Helena. Its weight was 1,632 ounces, and its value \$31,050.
The Superintendent of the Pennsylvania railway, in investigating the relative cost of making high and moderate grades, has shown that if of two roads, each one hundred miles long, the one has grades of twenty-five feet to a mile, and the other of ten, and the demand for transportation on each amounts to \$2,000,000 of tons per annum, the difference in favor of the level road is \$600,000, or the interest on \$10,000,000.

The mineral wealth of Algiers is represented to be inexhaustible. At the iron mine Makta-el-Hadeel, near Bone, the mineral in some places crops up above the surface of the ground, and is worked in immense crater-like cuttings to a depth of one hundred feet. About 200,000 tons of ore, yielding 65 per cent of pure metal, are annually sent to France from these mines.

The most expensive railway line in England, and probably the costliest ever constructed, is that of the London and Southampton railway, from Charing Cross to Sevenoaks. Upon this road, less than twenty-five miles in length, the enormous sum of \$47,500,000 in gold has been expended. We were informed by an engineer in London that the Charing Cross connection to the city, in length about two and a half miles, cost \$5,000 per yard forward, including stations and two bridges across the Thames.

The large alum works in the province of Brandenburg, Prussia, has been purchased by two enterprising New Englanders engaged in business in Hamburg. The number of American firms in that city have doubled since 1866.

NEW PUBLICATIONS.

ENGRAVED PORTRAIT OF GENERAL GRANT.
Many of our readers are doubtless familiar with Marshall's celebrated engraving of Abraham Lincoln, which as a work of art has received the unqualified praise of critics both in Europe and our own country.

REISSUES.

66,995.—SKATE FASTENER.—Dated July 23, 1867; reissue 3,007.—E. H. Barney and John Berry, Springfield, Mass.

DESIGNS.

3,072.—SODA WATER FOUNTAIN.—Chas. W. Anderson, Cincinnati, Ohio.
3,073.—LABEL.—Samuel Crump (assignor to E. C. Hazard), New York City.