UNITED STATES PATENT OFFICE.

ENRICO ROSENZI, OF PITTSBURG, PENNSYLVANIA.

MANUFACTURE OF OBSIDIAN LOOKING-GLASSES.

SPECIFICATION forming part of Letters Patent No. 309,741, dated December 23, 1884.

Application filed May 13, 1884. (Specimens.)

To all whom it may concern:

Be it known that I, ENRICO ROSENZI, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in the Manufacture of Obsidian Looking-Glasses, of which the following is a specification.

My invention relates to an improvement in the manufacture of obsidian looking-glasses; and it consists in the employment and use of ferroline, a material of which the composition was invented by myself, and is protected by Letters Patent No. 244,486, granted to me on July 19, 1881, instead of obsidian, used by the Romans and Greeks in former ages for looking-glasses and reflectors on astronomical instruments.

The obsidian is known to be a kind of glass, produced by volcanoes, and composed of ingredients similar to these employed in making and compounding ferroline. As described in the said patent, the component parts of ferroline are soda, silex, ashes, lime, magnesia, borax, and arsenic, and the same have been found in obsidian. The high degree of polish of which the ferroline is susceptible qualifies it above other materials for looking-glasses, and its deep black color gives it a peculiarly attractive appearance. The mass obtained by the proper intermixture of the ingredients named is cast or blown into plates of any desirable form and thickness—flat, concave, or convex—and polished and framed to fit the place it may be destined to occupy.

The advantage gained by substituting ferroline for obsidian consists in its cheapness over the volcanic production, and in its adaptability to all forms and sizes. The perfection and beauty of these looking-glasses can only be appreciated by examination. Nothing of the kind has ever been offered to the public. The reflections are as clear and distinct as seen in the brightest glass mirrors, but subdued by a tint that gives the reflected image a peculiar charm. Ferroline may also be used for reflectors, and will be found of great brilliancy, but deprived of the glare reflected by metal, so offensive and injurious to the eye.

Having thus described my invention, I claim—

The employment of ferroline in the manufacture of obsidian looking-glasses and reflectors, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

ENRICO ROSENZI.

Witnesses:

T. F. LEHMANN,

CHAS. F. MCKENNA.