UNITED STATES PATENT OFFICE.

H. F. KNODERER AND LEVI F. KNODERER, OF CHILLICOTHE, OHIO.

COMPOSITION FOR PREVENTING INCRUSTATION OF STEAM-BOILERS.

Specification forming part of Letters Patent No. **26,683**, dated January 3, 1860.

To all whom it may concern:

Be it known that we, HENRY F. KNODERER and LEVI F. KNODERER, of Chillicothe, in the county of Ross and State of Ohio, have invented a new and improved mode of preventing the deposition and accumulation of lime, known as "lime-scale," in the interior of steam-boilers; and we do hereby declare that the following is a full and exact description thereof.

The nature of our invention consists in putting into the boiler (with the water thereof) a preparation of two pounds of alum, one pound of glue, two pounds of wood-ashes, and four pounds of wheat-bran, which are to be pulverized and mixed and put into a strong cloth sack and placed in the boiler when in use, and will effectually prevent the deposition and accumulation of lime-scale from any water holding lime in solution.

What we claim as our invention, and desire to secure by Letters Patent, is—

The application of a compound of alum, glue, wood-ashes, and wheat-bran, prepared and applied as above specified, to prevent the deposition and accumulation of lime, known as "lime-scale," upon the interior of steam-boilers and pipes of whatever kind, as herein specified and substantially set forth.

H. FREDERICK KNODERER.
LEVI F. KNODERER.

Witnesses:
THOS. S. SEDGWICK,
W. H. SKERRETT, Jr.