

United States Patent Office.

SAMUEL DANKS, OF CINCINNATI, OHIO.

Letters Patent No. 68,715, dated September 10, 1867.

IMPROVED LINING OR "FIX" OR PUDDLING AND BOILING-FURNACES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, SAMUEL DANKS, of Cincinnati, in the county of Hamilton, and State of Ohio, have invented a new and improved Mode of Fixing or Lining of Puddling or Boiling-Furnaces; and I do hereby declare that the following is a full and exact description thereof.

The nature of my invention consists in mixing an alkali or alkalies, such as lime and common salt, separately or combined, with the cinder of the puddling or boiling-furnace, whilst in a fluid state, or when pulverized after tapping from the furnace; the said mixture to be used to fix the puddling or boiling-furnace. I also mix lime and salt with pulverized or melted iron ore for fixing puddling or boiling-furnaces.

What I claim as my invention, and desire to secure by Letters Patent, is—

The use of puddlers or boilers, tapping-cinder, squeezer-cinder, or hammer-cinder, and pulverized iron ore when mixed with an alkali or alkalies, such as lime, common salt, soda, or pottassa, separately or combined, for lining or fixing puddling or boiling-furnaces.

SAMUEL DANKS.

Witnesses:

JOHN G. DANKS,
W. H. BELLOWS.