

United States Patent Office.

EDWARD B. NOCK, OF CLEVELAND, OHIO, ASSIGNOR ^{Himself} TO O. B. PERDUE,
CHARLES F. MATHEWS, AND JOHN LONG, OF SAME PLACE.

Letters Patent No. 81,528, dated August 25, 1868.

IMPROVEMENT IN THE MANUFACTURE OF SHEET IRON.

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, EDWARD B. NOCK, of Cleveland, county of Cuyahoga, in the State of Ohio, have invented a new and improved Method of Manufacturing Sheet Iron; and I do hereby declare that the following is a full and exact description thereof.

The nature of this method relates to the manufacture of an improved article of sheet iron, and consists in applying tin to the surface of the iron, which may be done at any time after leaving the puddling-furnace, and previous to being finished into sheets. This iron produces, when finished, a smooth, polished surface, and is capable of resisting oxidation far better than ordinary sheet iron, and is much more durable.

For producing the result here stated, either of the following methods may be employed with similar results:

First. Immerse the iron while hot, as it comes from the heating-furnace, into molten tin, previous to passing to the rollers. It may then be finished into sheets the same as ordinary sheet iron.

Second. Coat the iron with tin previous to heating for the rollers.

Third. Apply tin to the surface of sheets during the process of manufacture.

Fourth. Immerse the puddled ball, as it comes from the puddling-furnace, into molten tin, previous to passing through the squeezers.

Fifth. Immerse the bloom into molten tin, after coming from the squeezers, previous to passing through the muck-rolls.

Sixth. Immerse the muck-bar into molten tin previous to heating.

The surface produced by the superficial application of tin to the iron, during the process of manufacture, gives it the superior qualities of resisting the corroding influences of acids and gases; and for durability it excels all ordinary sheet iron.

I claim the application of tin to the surface of the iron, by either of the methods herein described, substantially as and for the purpose set forth.

EDWARD B. NOCK.

Witnesses:

GEO. W. TIBBITTS,

GEO. HESTER.