

UNITED STATES PATENT OFFICE.

JOHN H. KOLB, OF BROOKLYN, NEW YORK, ASSIGNOR OF ONE-THIRD TO
WILLIAM J. MATHESON, OF SAME PLACE.

UTILIZING THE WASTE CUTTINGS OF TINNED IRON.

SPECIFICATION forming part of Letters Patent No. 322,833, dated July 21, 1885.

Application filed April 3, 1884. (No specimens.)

To all whom it may concern:

Be it known that I, JOHN H. KOLB, a citizen of the United States, residing in the city of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Utilizing the Waste Cuttings of Tinned Iron—*i. e.*, Tin-Scrap; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

The purpose of my invention is to re-enforce the iron scrap or plates after the coating of tin has been removed or stripped from them, and so treat the iron as to make it into wrought-iron, which shall be suitable for all the ordinary purposes for which wrought-iron is used. When the tin coating has been removed from the tin-scrap the iron is of the quality technically known as "cold short" and is worthless, but by my process is reclaimed and made into wrought-iron. To do this I proceed as follows: I first remove the tin coating from the tin-scrap by any of the well-known processes. I then mingle with the tin-scrap or clippings of tinned iron from which the coating of tin has been removed, first, cinder—by preference charcoal forge-cinder—or, second, wrought-iron turnings, or, third, both, in such proportions as the kind and quality of the cleaned tin-scrap used may require. When the wrought-iron turnings are used, ordinarily about fifty parts of the same should be added to and mingled

with fifty parts of the cleaned tin-scrap. When cinder alone is used about ten parts of cinder should usually be taken to ninety parts of the cleaned tin-scrap. When both are used together generally about ten parts of cinder and thirty parts of wrought-iron turnings should be added to sixty parts of cleaned tin-scrap.

Wrought-iron punchings, filings, cuttings, clippings, (other than tin-clippings,) or any wrought-iron in pieces may be substituted at pleasure for the wrought-iron turnings above.

The parts being mingled, I compress the whole into a block or bundle, as well as may be, of any required size or shape, and this done I subject the block or bundle to a welding heat, which may be applied in a sunken fire or in a heating or other furnace, and then hammer into a bloom or billet, which is thus made ready for the rolling-mill and other uses of wrought-iron.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

Wrought-iron composed of the iron-plates or iron-scrap reclaimed from tin-scrap or other similar material, combined with charcoal-cinder, wrought-iron turnings or other suitable material, substantially as described.

In testimony whereof I have hereunto set my hand this 21st day of March, 1884.

JOHN H. KOLB.

In presence of—

R. T. VAN BOSKERCK,
LOUIS W. FROST.