

UNITED STATES PATENT OFFICE.

THOMAS JAMES, OF SEYMOUR, CONNECTICUT.

IMPROVEMENT IN THE MANUFACTURE OF TINNED SHEET-COPPER.

Specification forming part of Letters Patent No. **182,074**, dated September 12, 1876; application filed June 21, 1876.

To all whom it may concern:

Be it known that I, THOMAS JAMES, of the town of Seymour, in the State of Connecticut, have invented a certain new and useful Improvement in the Manufacture of Tinned Sheet-Copper; and do hereby declare that the following is such a full, clear, and exact description thereof as to enable one skilled in the art to practise my invention.

In preparing tinned sheet-copper I proceed as follows: First, the sheet of copper is tinned according to the usual and well-known methods; second, to remove the discolored appearance from the copper sheet, caused by the action of the heat during the tinning process, I apply to the copper surface of the sheet diluted sulphuric or other suitable acid; third, I next wash the sheet in clear water; fourth, the sheet may then be dried by furnace or other artificial heat; fifth, two of said sheets so prepared, having their tinned surfaces next to each other, are placed between polished steel or chilled rolls, and the two sheets rolled together until they acquire a high polish.

The process last-above referred to is of importance in the art, inasmuch as several ad-

vantages are thereby gained, among which is a brighter polish to the sheet, and also a protection to the rolls.

The old and well-known method of rolling the sheets was by passing each sheet through the rolls singly. By my process the tinned surface of the sheet is covered and protected. As a consequence none of the tin will adhere to and destroy the polish of the rolls, which dulling of the surface of the rolls prevents the production of a highly-polished sheet of metal, it being as a well-known fact that the more highly polished the rolls are, the more highly polished the tinned sheet of copper will be after it has passed through the rolls.

I claim—

As an improvement in the art of polishing sheets of tinned copper, placing two sheets together, their tinned surfaces being in contact, and passing the same between polished rolls, the latter rolling in contact with the copper surfaces, substantially as described.

THOS. JAMES.

Witnesses:

JAMES H. HUNTER,
K. NEWELL.