

Patent 30,545.

THE RECORDS OF THE OFFICE SHOW THE ABOVE  
DRAWING AS BEING LOST OR DESTROYED IN THE  
FIRE.

**DRAWING AVAILABLE**  
**UNITED STATES PATENT OFFICE.**

EUGENE M. REXFORD, OF INDIANAPOLIS, INDIANA.

IMPROVEMENT IN THE MANUFACTURE OF SQUARE PANS OF SHEET METAL.

Specification forming part of Letters Patent No. 30,545, dated October 30, 1860.

*To all whom it may concern:*

Be it known that I, EUGENE M. REXFORD, of Indianapolis, in the county of Marion and State of Indiana, have invented a new and useful Machine for the Purpose of Forming or Folding Sheet Metals into Square Pans, or for any other purpose for which the same can be used; and I do hereby declare the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figures 1 and 2 are perspective views.

A is a movable plate connected to the slide L, which is raised or lowered through the ways M M by a slide-lever, X.

D and C are plates fastened by the hinges N N to the holding-rest B.

P P are supporters of the ways M M, and are connected to the base S S.

O O are double levers operated by a third lever, Y, for a handle, and are intended to raise the plates D and C simultaneously against the plate A.

G G G is a strong plate which moves upon a hinge, T, and H is a plate hinged at J to G G G, and is moved by a handle, Z.

K is a plate with a crease in the top, which is attached to a machine, if required, by a purchaser, but is not necessarily a part of it.

Operation: Raise the movable plate A by the lever X, then place one corner of the sheet to be formed between the plate A and the holding-rest B, overlapping with the edges of the sheet the hinged plates D and C as far as the required depth of the pan. After lowering the plate A so as to firmly hold to its place the sheet to be formed apply the power on the double levers O O by their handle Y, when the

parts overlapping the plates D and C will be folded against the plate A, and at the same time the slack in the corner of the sheet at E will be compressed between the ends of the hinged plates D and C, making a double thickness. Next, after letting the plates D and C fall back to their horizontal position, move the plate G G G over and upon plate D and against the part of the sheet folded by D, which will bring the hinged plate H flat against the double thickness at the corner of the sheet. Then with the plate H by its handle Z press the double thickness around against that part of the sheet that was folded up by the plate C. Next remove the plate G G G out of the way and free the sheet by raising the lever X. So repeat the operation on the remaining corners. After the pan is formed all around, by inserting each edge separately in the crease in the top of the part marked K and bending it over with the hands the edge will be ready for the wiring.

I do not claim the invention of the part marked K, as it is used for various purposes; but

What I claim as new in a machine for manufacturing pans of sheet metal, and desire to secure by Letters Patent, is—

An adjustable arrangement of plates D and C, for raising and folding the metal overlapping them, which at the same time compresses the slack in the corners, and in connection with plate H bends the compressed slack against the sides, the whole constructed and operating, as set forth.

EUGENE M. REXFORD.

Witnesses:

BARTON D. JONES,  
REZIN FARQUHER.