

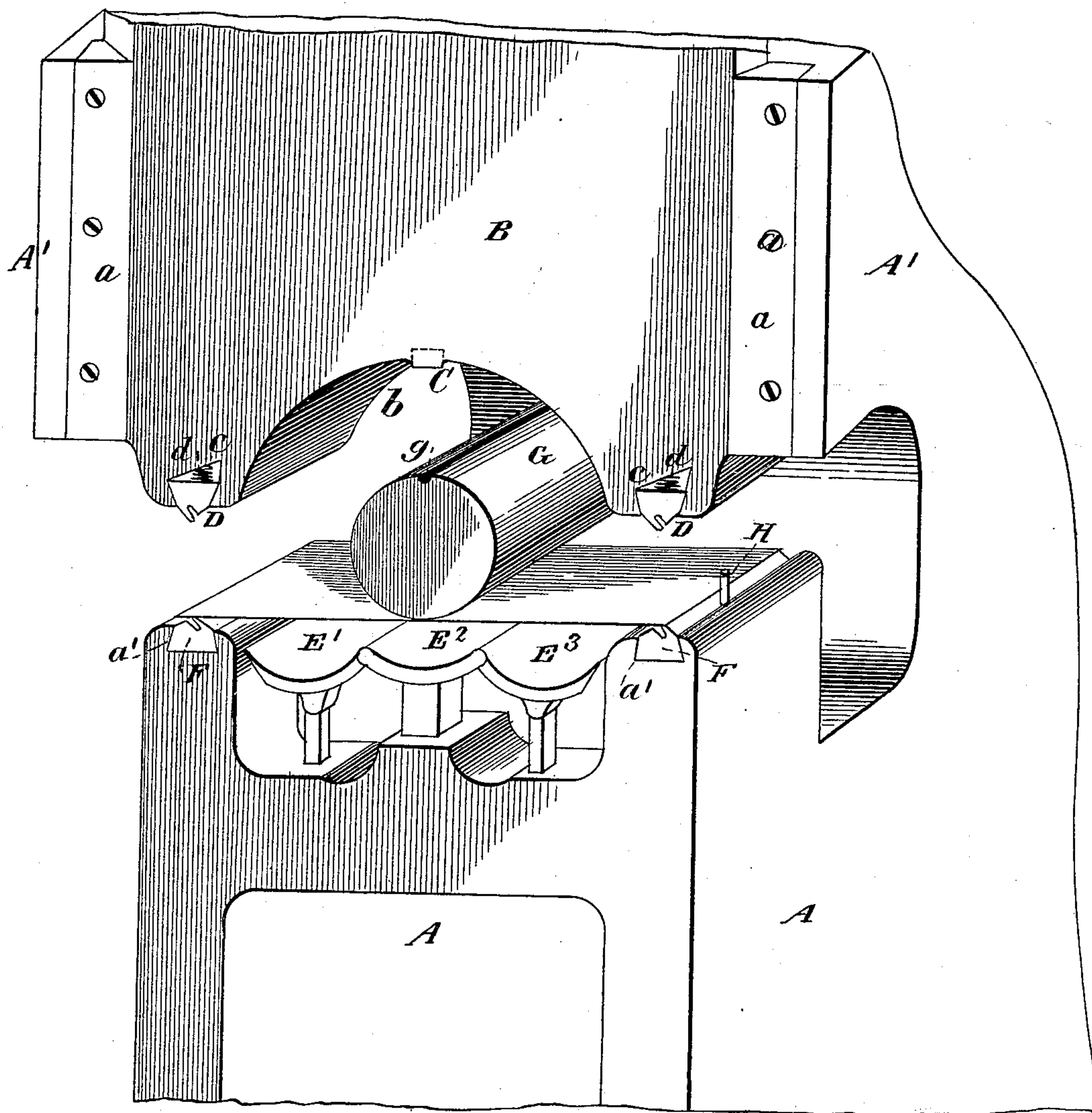
(No Model.)

E. J. DOLAN.

MACHINE FOR MAKING TIN CANS.

No. 371,494.

Patented Oct. 11, 1887.



*Witnesses.*  
*A. Ruppert.*  
*Alfred T. Gage.*

*Inventor.*  
*Edward J. Dolan*  
*By Franklin H. Fongh*  
*his Attorney*



# UNITED STATES PATENT OFFICE.

EDWARD J. DOLAN, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO  
WILLIAM HACKER, TRUSTEE, OF SAME PLACE.

## MACHINE FOR MAKING TIN CANS.

SPECIFICATION forming part of Letters Patent No. 371,494, dated October 11, 1887.

Application filed June 24, 1887. Serial No. 242,382. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD J. DOLAN, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Machines for Making Tin Cans; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in machines for use in the manufacture of tin cans; and it consists in a machine adapted to crimp the edge of the tin before the same is wrapped around the cylinder, and to complete the seam of the cylinder so formed during the period that the edges of the next succeeding blank are being crimped, and by the same movement of the die.

The invention will be clearly understood from the following description, when taken in connection with the accompanying drawing, which represents an end elevation of the mechanism which at the present time I deem the preferable form for carrying out my invention.

In the said drawing, A represents a suitable bed, in the arms A' of which are formed suitable guides, a, in which reciprocates the die-holder B, which is caused to reciprocate vertically therein by any suitable means. (Not shown.) The lower face of this holder is recessed on curved lines, as shown at b, and in the upper central portion of the recess is the hammer C, which may form an integral part of the holder, as shown in full lines, or may be a separate piece and suitably secured thereto, as shown in dotted lines. In the bottom face of this holder, upon each side of the recess therein, I form the transverse recess c, in which fit the dies D, which are constructed to have a slight rocking motion therein. Within these recesses, back of the dies, I place suitable springs, d, which tend to keep said dies in their proper position.

The upper face of the bed A is recessed, as

shown, to provide room for the formers E' E<sup>2</sup> E<sup>3</sup>, which may be of any suitable construction, but preferably of the form shown, which is similar to that shown in my Patent No. 345,284, dated July 13, 1886, and may be actuated by any suitable means, (not shown,) but preferably similar to those shown in my patent above referred to.

Within suitable recesses in the projections a' of the bed are secured the dies F, as shown.

G is the cylinder around which the blank is clamped. It is provided upon its upper face with a longitudinal recess, g, for the reception of the seam as it is pressed by the hammer.

H is a stop to limit the movement of the blanks, which are fed in under the reciprocating dies in any suitable way.

The operation is as follows: The parts being in the position shown in the drawing, the blank is fed in until it is stopped by contact with the pin H, which stops it in the position shown, when the die-holder is brought down and the ends of the blank are crimped. As the die-holder ascends, the formers are brought into play and wrap the blank around the cylinder. The formers then recede into the position shown in the drawing, and another blank is fed in. As the die-holder again descends to crimp the ends of the blank last fed in, the crimped ends of the previous blank, which is wrapped around the cylinder, are compressed by the hammer C. Thus it will be seen that at each downward movement of the die-holder I crimp the ends of one blank and simultaneously compress the seam of the blank previously acted upon.

The die-holder and formers should be so timed as to insure their action at the desired intervals.

The completed can-body is removed from the cylinder in any suitable way.

Having thus described my invention and set forth its merits, what I claim to be new, and desire to secure by Letters Patent, is—

1. The combination, with two stamping-dies, of a reciprocating die-holder carrying two co-operating dies, an intermediate hammer, and a mandrel, as and for the purpose described.

2. In a device for the purpose described,  
the combination, with the bed and stationary  
dies, the formers, and the mandrel, of the re-  
ciprocating die-holder, the dies carried there-  
5 by, and the hammer carried by said die-holder  
between its dies, as and for the purpose speci-  
fied.

In testimony whereof I affix my signature in  
presence of two witnesses.

EDWARD J. DOLAN.

Witnesses:

JOHN MÖLLER,  
J. C. MÖLLER.