

GEORGE A. BOWERS.

Improvement in Flanging Machines.

No. 124,879.

Patented March 26, 1872.

Fig 1.

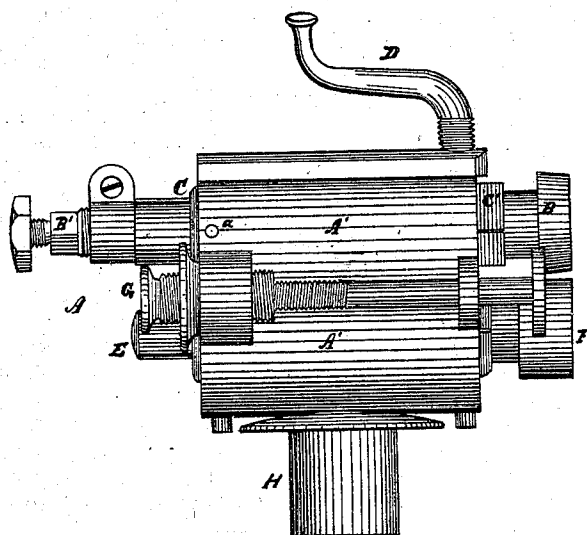
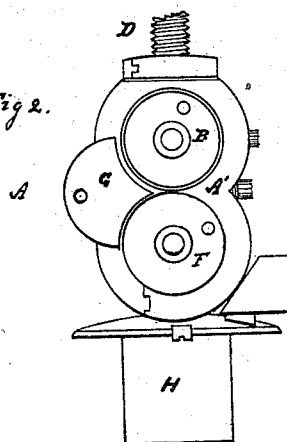


Fig 2.



WITNESSES

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IMPROVEMENT IN FLANGING-MACHINES.

Specification forming part of Letters Patent No. 124,879, dated March 26, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that I, GEORGE A. BOWERS, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Flanging-Machines; of which the following is a full, clear, and exact description, which will enable those skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawing forming a part hereof, and in which—

Figure 1 represents a side elevation of a flanging-machine provided with my improvement, and Fig. 2 an end elevation of the same.

Like letters of reference represent like parts.

My invention relates to that class of machines commonly used by tinner for the purpose of seaming, burring, flanging, or similarly operating upon tin or other sheet metal; and consists in providing machines of this class with two rollers, so constructed or arranged that their working faces shall not be parallel to each other, in order that an outward flange may be readily turned upon cylindrically-formed sheet metal, as will be hereafter more fully described.

In the drawing, A represents a machine of the class referred to, and B represents a roller having its working face beveled from the outer to the inner edge thereof, as shown. F is a roller having a cylindrical working face, and so arranged with reference to the roller B that the working faces of these rollers will be in contact only at one point, or not parallel to each other at their nearest points when arranged in the same vertical plane, as shown.

In order that the operation of my improved flanging-machine may be fully understood, I will briefly describe how an outward flange may be turned upon a cylinder of sheet metal. The end of the cylinder is placed between the rollers B and F and against the gauge G, so that the roller B, preferably, is external to the cylinder. The roller B is then pressed firmly upon the metal by means of the thumb-screw D. The rollers B and F are then rotated, and as they rotate the cylinder is pressed upward, care being taken not to draw it from between the rollers in so doing.

It will be observed, from the foregoing description, that the outer edge of the flange will necessarily be stretched more than the inner edge, or its point of contact with the cylinder, owing to the fact that the rollers B and F are nearest together at their inner edges, and therefore exert a greater pressure on the metal at that point. This causes the flange to be evenly laid about the edge of the cylinder without splitting it, as is frequently the case in turning the flange in the manner heretofore done.

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

The combination of the rollers B and F, having their working faces not parallel to each other, and operating together substantially as and for the purposes specified.

GEORGE A. BOWERS.

Witnesses:

N. C. GRIDLEY,
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