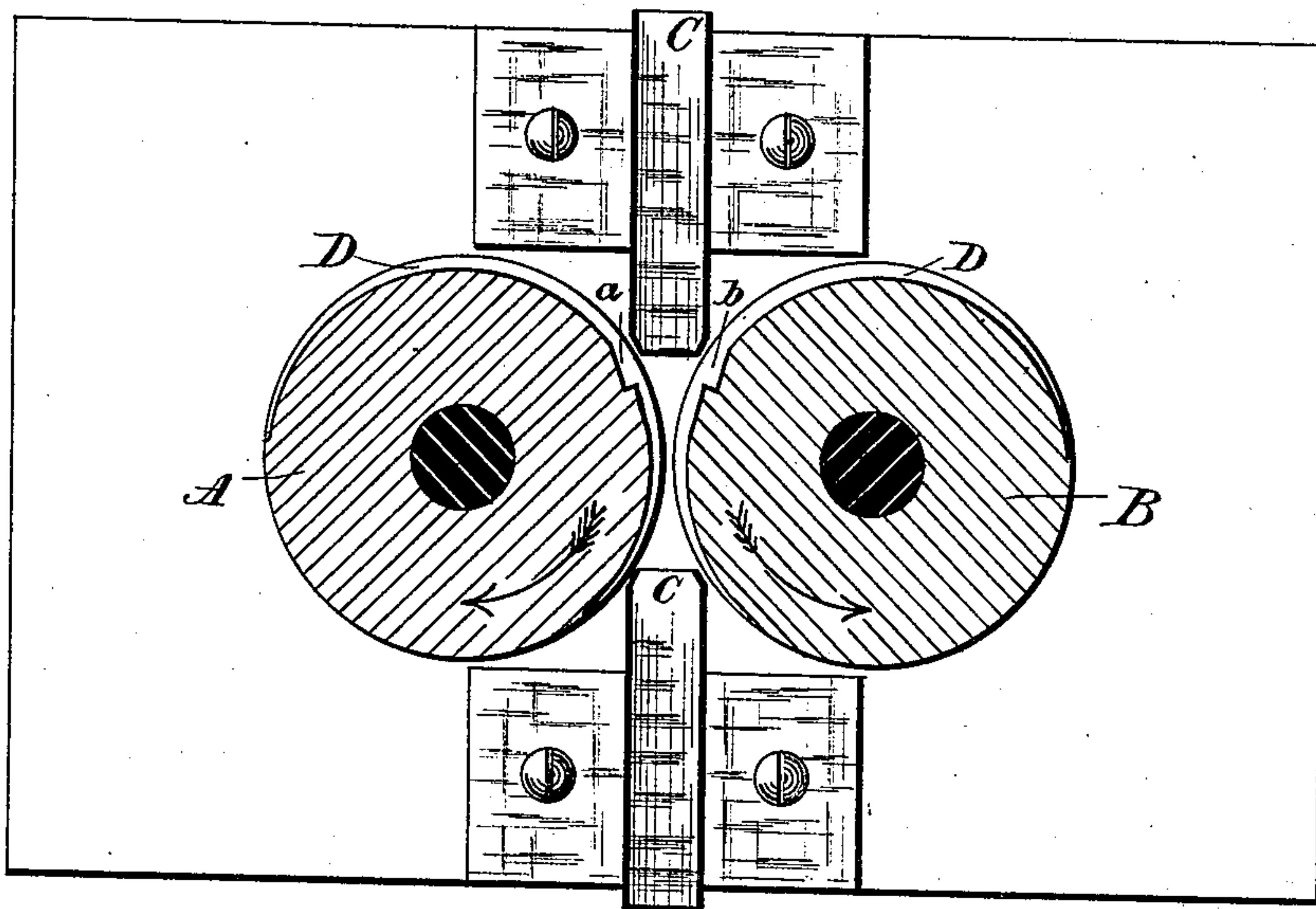
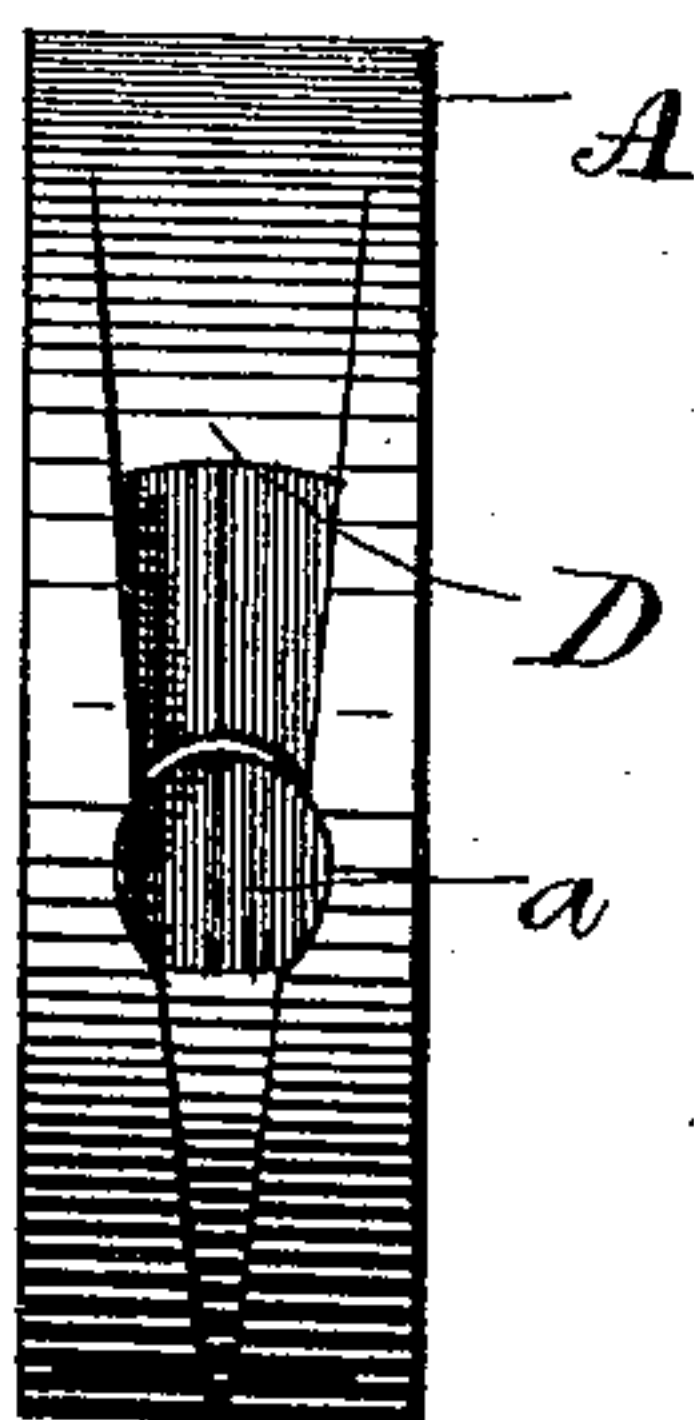


G. J. CAPEWELL.  
 Rolls for Forming Metal Articles.  
 No. 215,718.                      Patented May 27, 1879.

*Fig. 1.*



*Fig. 2.*



*Witnesses:*

*J. W. Burnham.  
 J. H. Subman*

*Inventor:*

*George J. Capewell  
 by  
 W. H. Babcock  
 Attorney.*

# UNITED STATES PATENT OFFICE

GEORGE J. CAPEWELL, OF CHESHIRE, CONNECTICUT.

## IMPROVEMENT IN ROLLS FOR FORMING METAL ARTICLES.

Specification forming part of Letters Patent No. **215,718**, dated May 27, 1879; application filed October 11, 1878.

*To all whom it may concern:*

Be it known that I, GEORGE J. CAPEWELL, of Cheshire, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Rolls for Metal-Working; 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of this invention is to guide the blanks of metal as they are presented to the pairs of pressure-rolls, so that the dies or impressions formed in the peripheries of said rolls will receive said blanks properly and without injury. This object I accomplish by providing the receiving end of the impression in each roll with a flaring guideway, which directs the blank into the impression.

In the accompanying drawings, Figure 1 represents a vertical section of a pair of rolls embodying my invention, and the feeding-tube which supplies them with blanks, the impressions of the rolls being in position to coact. Fig. 2 represents the periphery of a single roll, in elevation, its impression being provided with a flaring guideway, as stated.

A designates one of said pair of rolls, B the other, and C the feeding-tube, which is arranged in upper and lower sections, leaving an opening between for the operation of the rolls on the blanks. Roll A is provided on its periphery with an impression, *a*, and roll B with a counterpart impression, *b*, each of said impressions corresponding to one-half of the ar-

ticle to be produced, which, in the instance illustrated, is a nail. The rolls are arranged to turn with the head of the impression foremost. It has been found that when so operating there is danger that the end of the blank will not be accurately received by the heads of the impressions in the rolls, and, consequently, that the article will not be properly shaped. To remedy this serious defect, I have provided the head of each impression with a flaring guideway, D, which gradually increases in width and decreases in depth as it extends from the said impression. As the rolls turn toward each other and the blank is fed downward, the said flaring guideway directs the end of the blank inevitably into the impressions, insuring the correct shaping of the article.

This invention is suited to rolls for making other articles besides nails, and may be employed with other forms of feeding devices than the tube shown.

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

A pair of rolls having registering-impressions suitable for forming articles, each of said impressions being provided at its receiving end with a laterally-expanding guideway of gradually-diminishing depth, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

GEORGE J. CAPEWELL.

Witnesses:

EDWARD A. CORNWALL,  
EUNICE B. CORNWALL.