No. 607,110. Patented July 12, 1898.

C. F. BROOKER.

EDGING ATTACHMENT FOR ROLLING MILLS.

(Application filed Oct. 21, 1897.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.

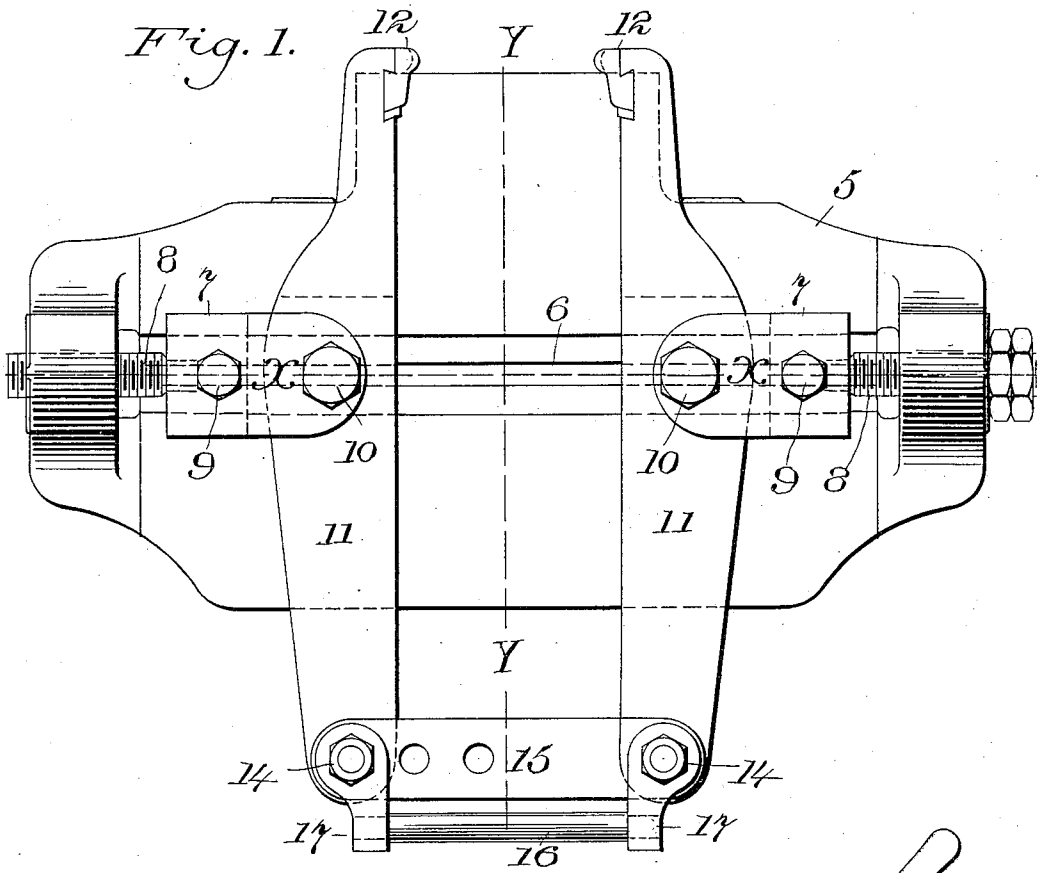
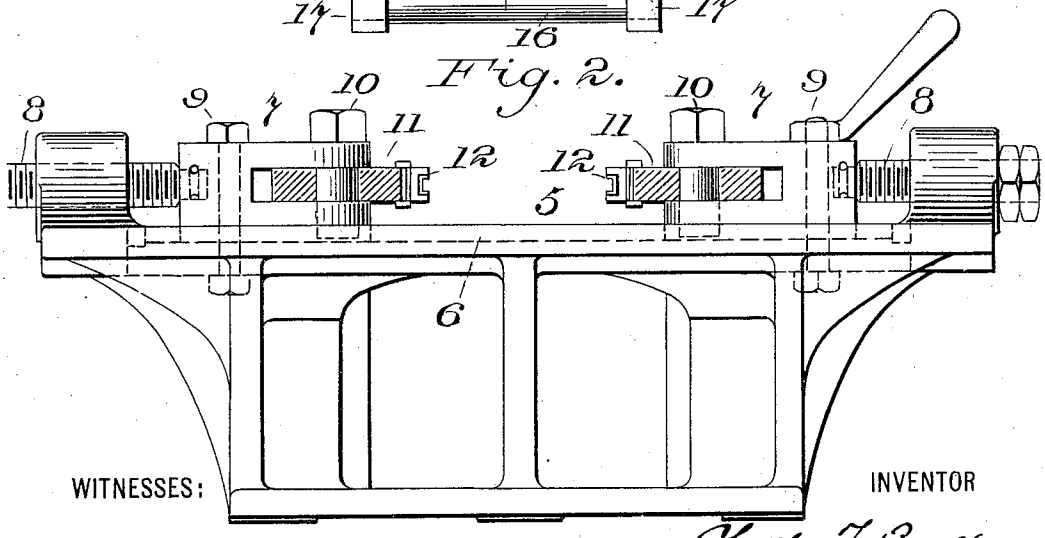


Fig. 2.



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Fig. 3.

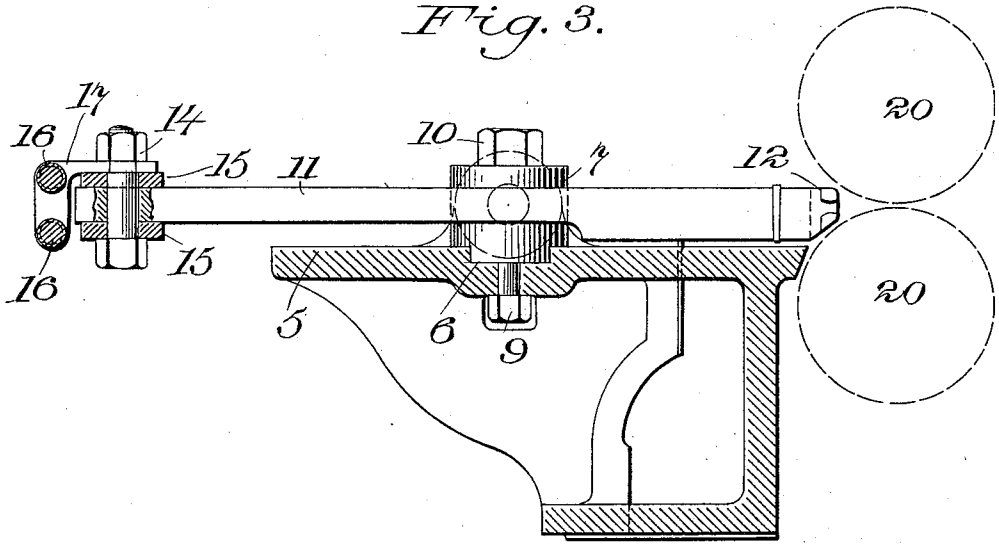


Fig. 4.

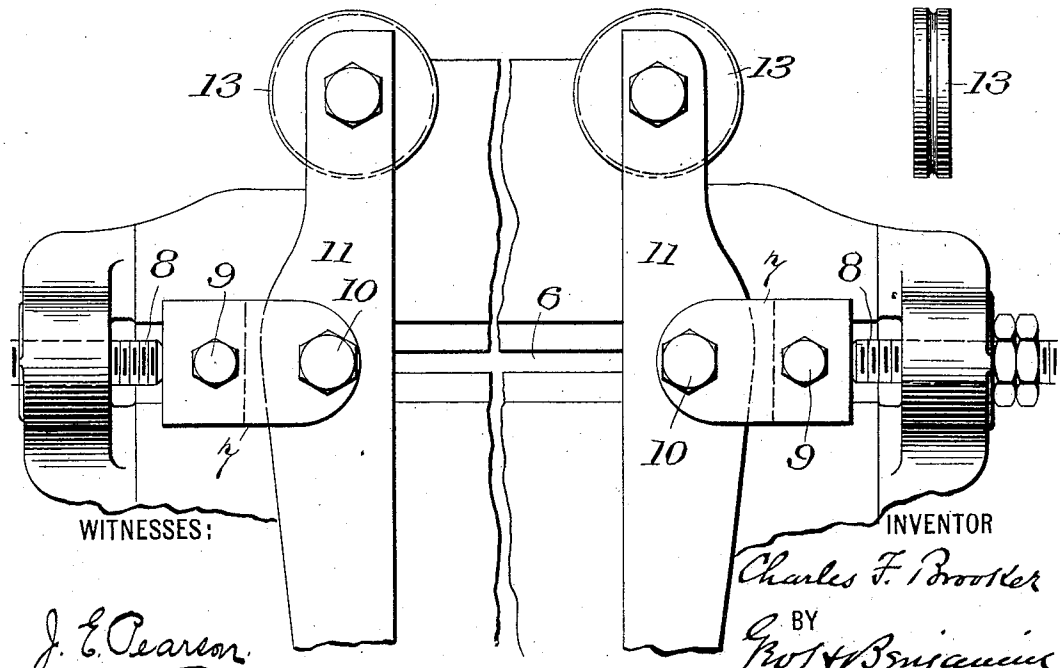


Fig. 5.

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UNITED STATES PATENT OFFICE.

CHARLES FREDERICK BROOKER, OF ANSONIA, CONNECTICUT, ASSIGNOR TO THE COE BRASS MANUFACTURING COMPANY, OF TORRINGTON, CONNECTICUT.

EDGING ATTACHMENT FOR ROLLING-MILLS.

SPECIFICATION forming part of Letters Patent No. 607,110, dated July 12, 1898.

Application filed October 21, 1897. Serial No. 655,890. (No model.)

To all whom it may concern:

Be it known that I, CHARLES FREDERICK BROOKER, a citizen of the United States, residing at Ansonia, State of Connecticut, have invented an Improvement in Edging Attachments for Rolling-Mills, of which the following is a specification.

My invention relates to a device adapted to be used in connection with a pair of rolls in a rolling-mill, and which has for its object the finishing of the edges of a metal strip or bar after it has passed the rolls.

My invention is specially applicable for finishing the edges of copper strips, although it may be used for finishing the edges of strips of other metals.

My invention also relates to an edging attachment in which the finishing dies or rolls are adjustable for strips of different widths.

My invention also relates to an edging attachment for rolling-mills in which the finishing-dies are removable, in order that dies or rolls of various shapes may be employed.

The accompanying drawings will serve to illustrate my invention.

Figure 1 is a plan view. Fig. 2 is a longitudinal section on the line X X of Fig. 1. Fig. 3 is a view, partially in section and partially in elevation, taken on the line Y Y of Fig. 1. This view also shows the position which the edging attachment occupies relative to a pair of rolls of a rolling-mill. Fig. 4 is a plan view similar to Fig. 1, showing modifications of my improved device. Fig. 5 is a side view of one of the edging-rolls shown in Fig. 4.

Similar numerals represent corresponding parts.

5 represents the base or bed plate, which may be of any suitable construction and is adapted to be secured in front of the rolls of the rolling-mill. In the bed-plate there is provided a longitudinal slot 6, in which are mounted so as to move longitudinally to and from each other the housings 7. The movement of the housings is effected by means of the set-screws 8 and their position when determined fixed by means of the jam-nuts 9.

Mounted in the housings upon the pivoted bolts 10 are the levers 11. At the forward end of the short arm of the levers are arranged the facing or finishing dies 12, or I may use in place of these dies finishing-rollers 13, as shown in Figs. 4 and 5.

Secured to the long arm of the levers by the bolts 14 is an adjusting-plate 15. Mounted also upon the long arm of the levers are the horizontally-disposed guide-rolls 16, carried in bearings 17. The finishing-dies 12 or rolls 13 may be given any suitable shape and are arranged so as to be readily removed when it is desired to change one form of die or roll for another.

The operation of the device is as follows: The edging device is mounted immediately in front of a pair of horizontally-disposed rolls 20, and the strip as it passes the rolls is forced between the dies 12 or rolls 13 and then carried between the horizontal rollers 16. The position of the finishing dies or rolls relative to each other—*i. e.*, the distance between the acting faces of the dies or rolls—may be determined by means of the set-screws 8, as also by means of the adjusting-plate 15.

I claim as my invention—

1. In an edging attachment for rolling-mills, the combination with a supporting-base, of a pair of housings adjustable relatively to each other, a pair of pivoted levers mounted in said housings, and a pair of edge-finishing devices carried by said levers, substantially as described.

2. In an edging attachment for rolling-mills, the combination with the supporting-base, of a pair of housings, a pair of pivoted levers mounted in said housings, and a pair of removable edge-finishing devices carried by said levers, substantially as described.

3. In an edging attachment for rolling-mills the combination with a supporting-base, of a pair or housings, a pair of pivoted levers mounted in said housings, a pair of edge-finishing devices carried by said levers, and an adjusting-plate also carried by said levers, substantially as described.

4. In an edging attachment for rolling-mills, the combination with the supporting-base, of a pair of housings, screws for adjusting and securing the position of said housings, a pair of pivoted levers mounted in said housings,

and a pair of edge-finishing devices carried by said levers, substantially as described.

5. In an edging attachment for rolling-mills, the combination with the supporting-base, of a pair of housings, a pair of levers mounted in said housings, a pair of removable edge-finishing devices carried by said levers, an adjusting-plate, and a pair of horizontally-disposed guide-rollers, substantially as described.

6. In combination with a pair of horizontal rollers of a rolling-mill, an edging attachment, comprising a supporting-base, a pair of housings adjustable relatively to each other, a pair of pivoted levers mounted in said housings, and a pair of edge-finishing devices carried by said levers, substantially as described.

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

CHARLES FREDERICK BROOKER.

Witnesses:
ADELBERT P. HINE,
JAS. A. DOUGHTY.