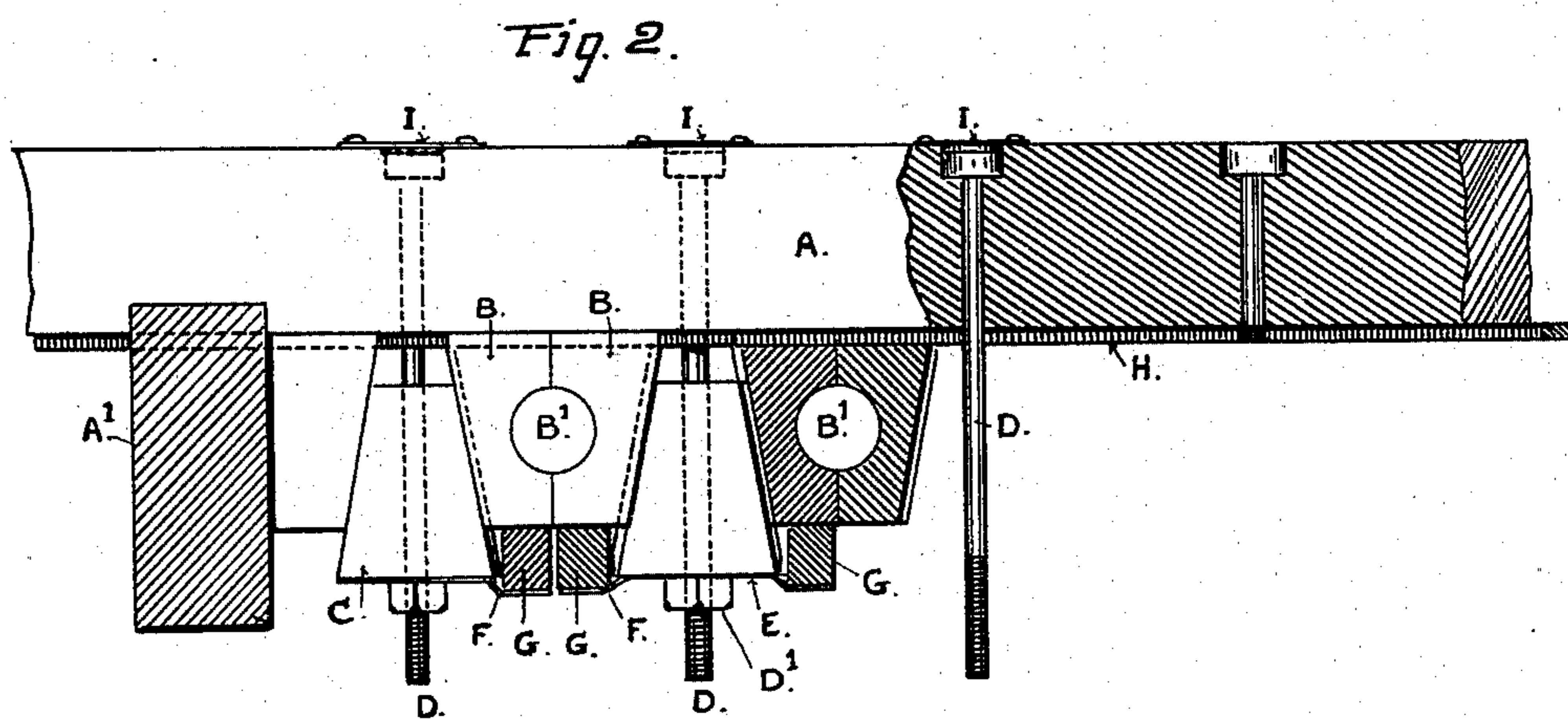
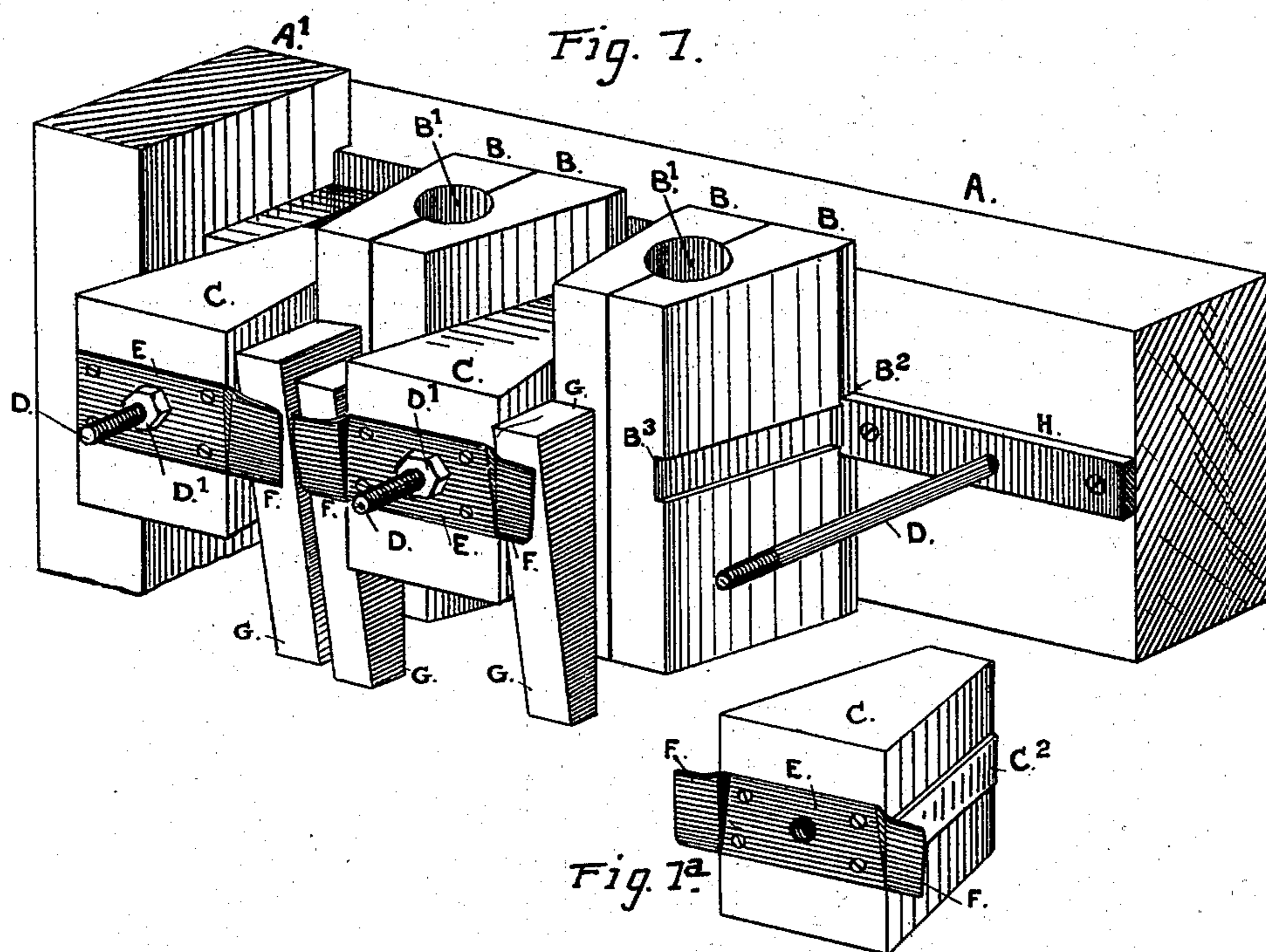


(No Model.)

C. A. FARGO.
STAMP STEM GUIDE FOR STAMP MILLS.

No. 559,055.

Patented Apr. 28, 1896.



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UNITED STATES PATENT OFFICE.

CORYDON A. FARGO, OF MARYSVILLE, MONTANA.

STAMP-STEM GUIDE FOR STAMP-MILLS.

SPECIFICATION forming part of Letters Patent No. 559,055, dated April 28, 1896.

Application filed November 6, 1895. Serial No. 568,138. (No model.)

To all whom it may concern:

Be it known that I, CORYDON A. FARGO, a citizen of the United States, residing in Marysville, in the county of Lewis and Clarke and State of Montana, have invented certain new and useful Improvements in Stamp - Stem Guides for Stamp-Mills, of which the following is a specification.

This invention relates to improvements made in that construction of adjustable stamp-stem guides for which Letters Patent of the United States were granted and issued to me on the 10th day of September, 1895, No. 546,284; and the present invention has for its object, mainly, to reduce the cost of making and fitting the guides and the parts of their holding devices to the frame-timbers, to secure a simple and ready adjustment of the guides in the frame as they become worn, and to allow any one of the guides to be taken out and replaced by a new one without throwing the stamps out of operation.

To such ends and object my invention consists in the described construction and combination of stamp-stem guides and fastening means comprising, essentially, an adjustable stamp - stem guide made in two parts, and means to secure them on the frame against perpendicular movements and fastening devices of novel construction to clamp them securely in place around the stamp-stem and to tighten the guide as the parts become worn, all as hereinafter more particularly described and explained in the following description, in which reference is had to the accompanying drawings, that form a part of this specification.

In the said drawings, Figure 1 is a perspective view representing a portion of the frame-timbers of a stamp-mill with the guides for the stems of the two stamps nearest one end of the battery. Fig. 1^a is a perspective view of one of the wedges that is placed between every two guides. Fig. 2 is a top view of the same parts shown in Fig. 1 with a portion of the frame-timbers and the guides and fastenings in horizontal section.

A indicates a horizontal timber in the battery-frame of a stamp-mill, and A' the up-right timber at one side.

B B indicate the two parts forming the stamp-stem guide.

B' indicates the socket in the guide for the stamp-stem when the two parts of the guide are brought together around the stem. 55

C C are wedges that set between every two adjacent guides.

D D are screw-threaded rods or long bolts inserted through the horizontal frame-timber A from the back and projecting from the front face of the timber between the guides B B. These bolts pass through the wedges C and take nuts D' on the ends, by means of which the wedges are drawn back into the space between the two guides. 60 65

E is a metal plate fastened to the perpendicular front face of each wedge and having wings or projecting side portions F, that are bent forward or offset at the top edge in such manner that the back or inner face of the wing has an inclination forward. 70

When the wedge C is placed on the screw-threaded rod D and forced back to place, the wings F overlap the front face of the adjacent halves of the guides B B, but stand forward clear of the same. 75

G G are tapering keys that are inserted between the front faces of the guides B B and the wings F before mentioned and are driven into place from above. 80

H indicates a flat bar of metal fastened by screws against the front of the horizontal timbers A of the frame and standing out from the face thereof. The backs of the guides B B are mortised or cut away, as shown at B², to let in this bar and bring the back of the guide up against the face of the timber. The aforesaid bar extends across the timber for the entire length of the same and is let into the backs of all the guides. 85 90

C² are horizontal tongues or ribs on the perpendicular tapering sides of the wedge, fitting into mortises or grooves B³ in the sides of the guides and extending from the front face to the back of the wedge. 95

I indicates a plate on the back of the horizontal timber A, secured by screws over the head of each long bolt D.

The head of every bolt is let into the timber flush with the back face, and the plate I 100

is fastened over the recess to keep the bolt from being pressed back while the wedge is being placed in position. The two parts that form each guide have flat inner meeting
 5 faces and the outer sides are tapered from the back toward the front. The front and back faces are vertical and also parallel with the perpendicular line of the stamp-stem which works in the guide. As fast as the
 10 guide wears down the looseness is taken up by setting the two parts more closely together, and the inner meeting faces of the two parts B B can be dressed off from time to time to permit this adjustment.
 15 The vertical sides of the wedges C are tapered to correspond with the taper sides of the guides against which they are placed, and each wedge is bored longitudinally for the long bolt D.
 20 The key G has a perpendicular back and a taper front face, and it is entered from above and driven down between the guide C and the projecting plate E F on the wedge, two of these keys being used for each guide.
 25 As thus constructed and applied it will be noticed that the parts forming the stamp-stem guide are easily removed from the frame and as easily inserted and placed in position by removing the keys and loosening the wedges,
 30 and that the parts of the guide are set up and tightened around the stamp-stem from time to time, as they become worn, by screwing up the nuts on the wedges and driving down the keys.
 35 In applying these improvements to the

frame of a stamp-mill no mortising or cutting into the frame-timbers is necessary and the frame is not weakened.

Having thus described my invention, what I claim as new, and desire to secure by Letters 40 Patent, is—

1. A stamp-stem guide for stamp-mills composed of the two halves or separable blocks having straight backs and tapering sides adapted to surround the stamp-stem, the 45 wedges and the bolts to hold the wedges and draw them to place, the projecting plates on the wedges overlapping the front faces of the guides, the tapering keys inserted between such overlapping plates and the said guides, 50 and the bar fixed on the front of the frame-timber and let into the back of the guide constructed for operation as described and shown.

2. The stamp-stem guide made in two parts 55 with beveled sides and a clamping and holding means consisting of the bar fixed on the front timber of the mill-frame and let into the back of the guide, the wedges and the bolts for setting up and adjusting the parts 60 of the guides laterally against the stamp-stem, and the keys for setting up and holding the guide against the frame-timber as described and shown.

In testimony that I claim the foregoing I 65 have hereunto set my hand and seal.

CORYDON A. FARGO. [L. S.]

Witnesses:

GEORGE BERG,
HARRY POTTING.