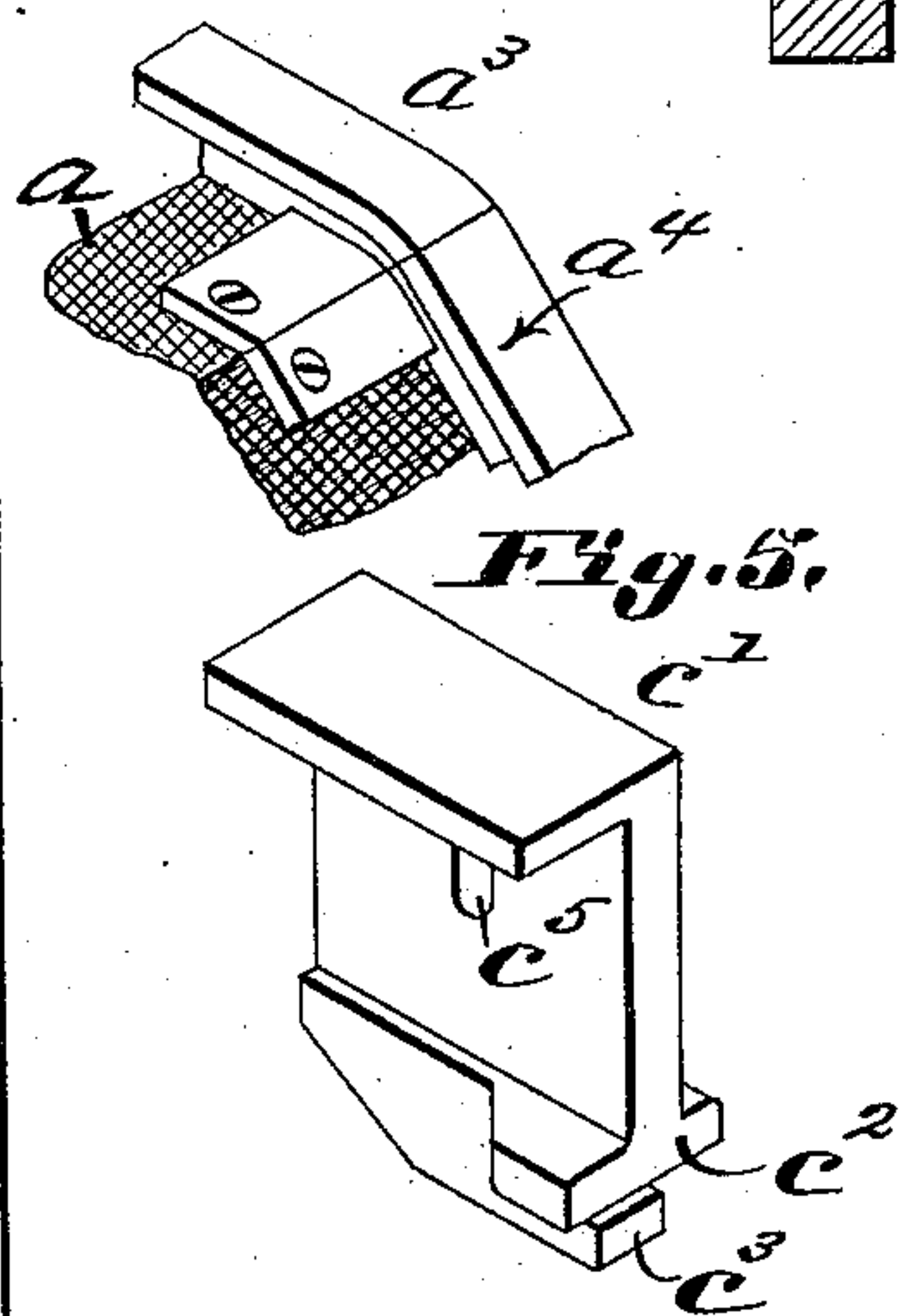
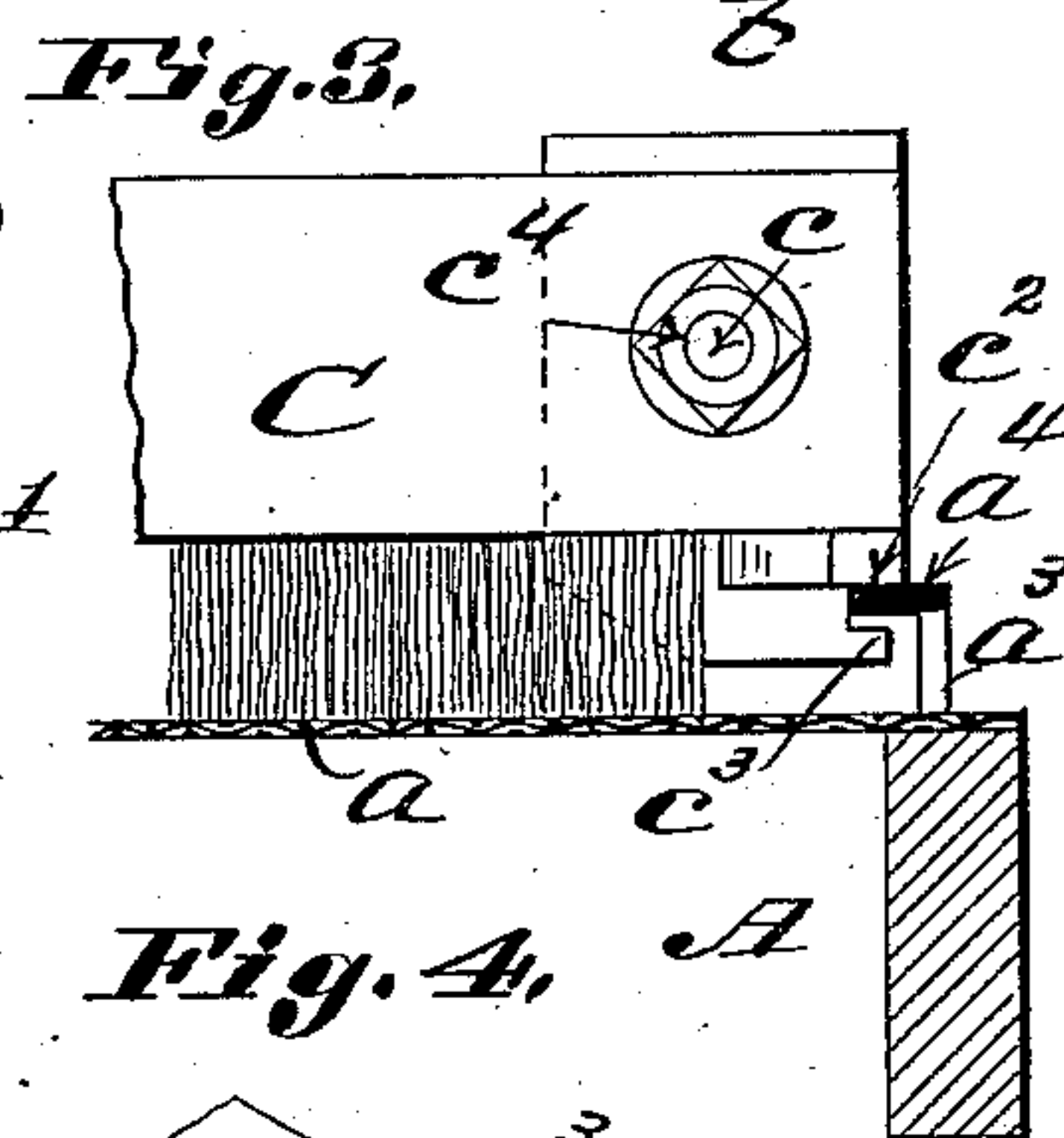
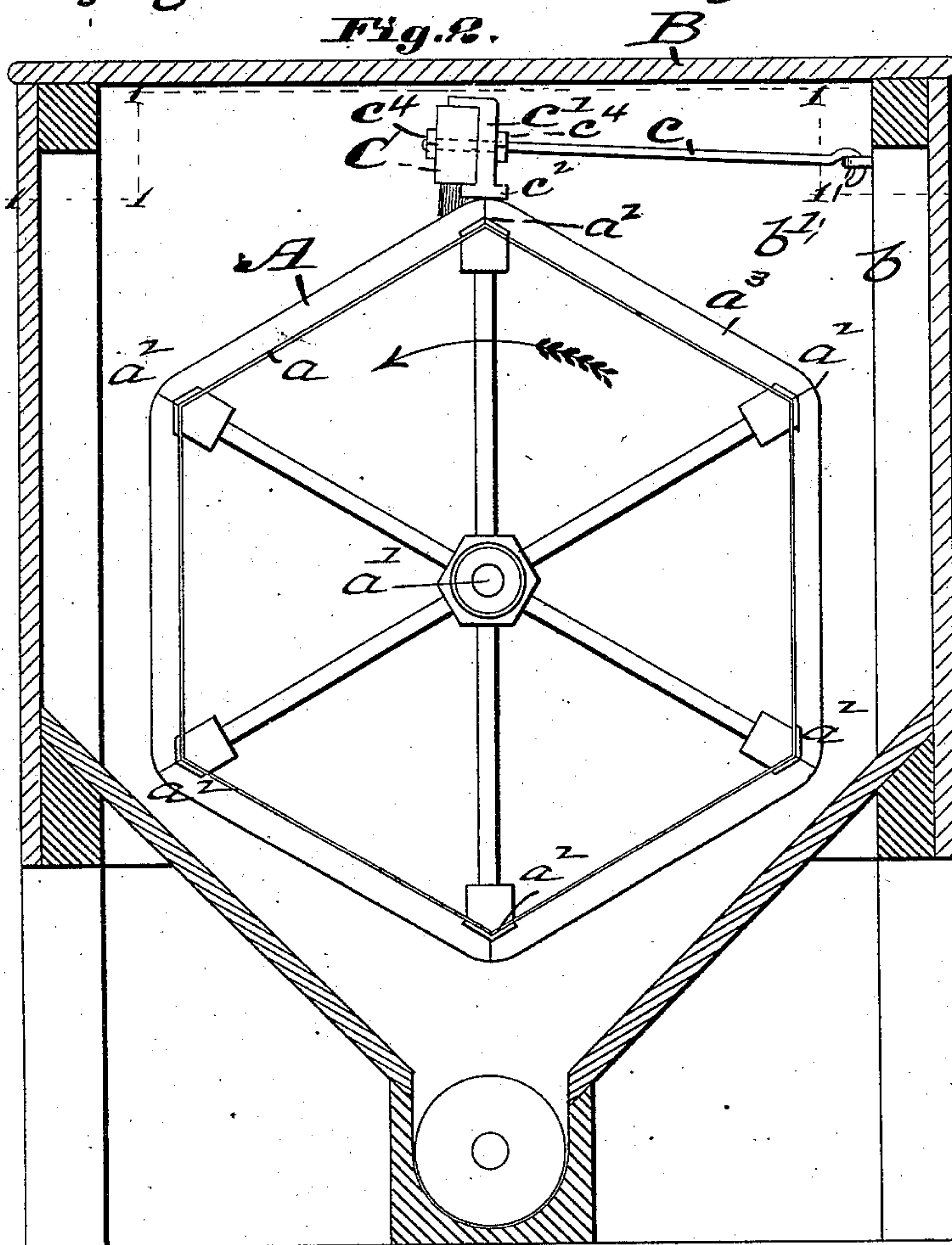
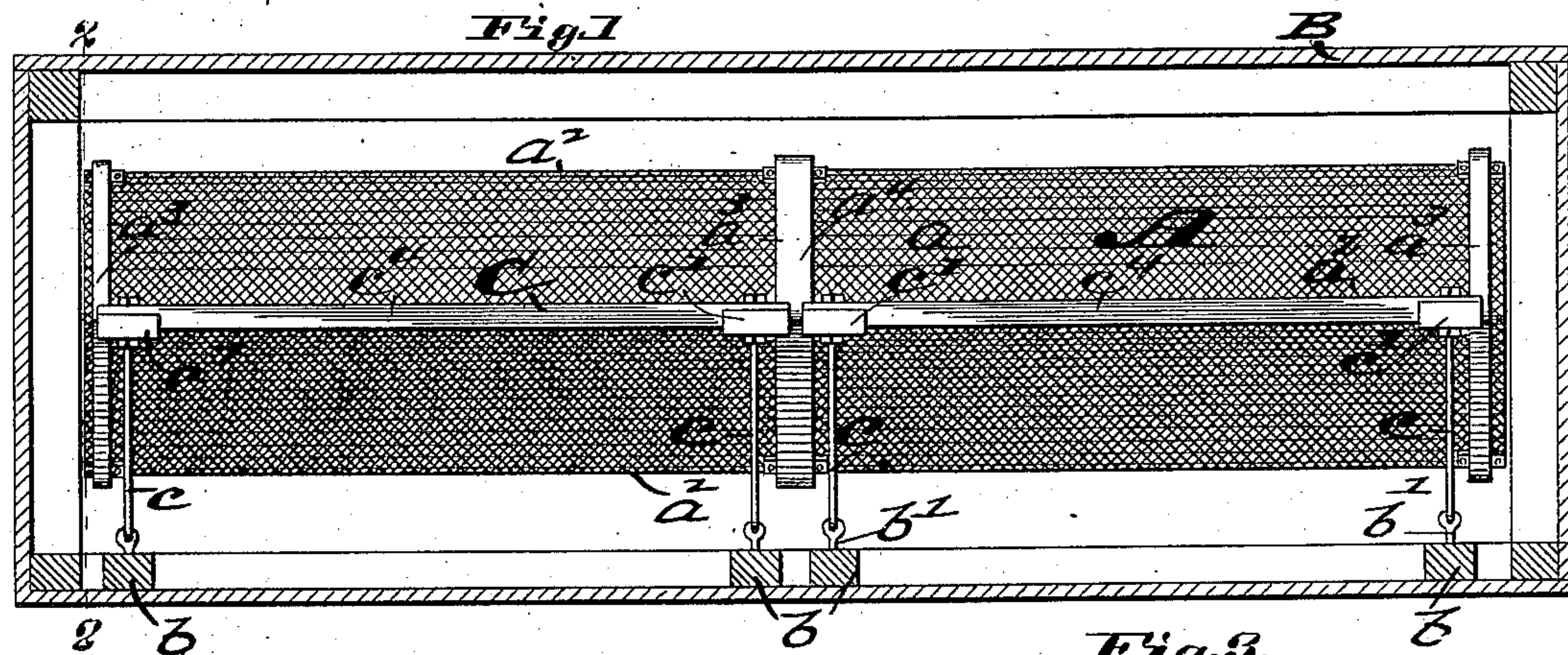


(No Model.)

T. McCUDDEN.
BRUSH FOR FLOUR BOLTS.

No. 294,896.

Patented Mar. 11, 1884.



Inventor:
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att'y

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UNITED STATES PATENT OFFICE.

THOMAS McCUDDEN, OF ST. LOUIS, MISSOURI.

BRUSH FOR FLOUR-BOLTS.

SPECIFICATION forming part of Letters Patent No. 294,896, dated March 11, 1884.

Application filed November 12, 1883. (No model.)

To all whom it may concern:

Be it known that I, THOMAS McCUDDEN, of St. Louis, Missouri, have made a new and useful Improvement in Brushes for Flour-Bolts, of which the following is a full, clear, and exact description, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a horizontal section on the line 1 1 of Fig. 2; Fig. 2, a vertical cross-section on the line 2 2 of Fig. 1; and Figs. 3, 4, 5, details, Fig. 3 being a view showing the end of the brush in position upon the bolt, the brush being in elevation and the bolt in longitudinal section; Fig. 4, a view in perspective showing a portion of the brush-guide upon the bolt, and Fig. 5 a view in perspective showing one of the irons attached to the brush.

The same letters of reference denote the same parts.

The present invention consists in a brush adapted to operate in connection with the polygonal bolts commonly in use, as hereinafter described, and pointed out in the claims.

The bolt A and bolting-chest B are made and operated in the ordinary manner. The brush C is adapted to follow the surface or cloth *a* of the bolt as the latter revolves, and exert a uniform pressure upon the surface or cloth. To this end the brush is held so as to be movable toward and from the center of the bolt, moving away from the bolt-center *a'* as the corners *a² a²* of the bolt come opposite the brush, and moving toward the bolt-center as the corners move away from the brush. The most desirable means for carrying this into effect are as follows: The brush is provided with the arms *c c*, which extend from the brush to some suitable fixed part—say the posts *b b*—of the chest B, and jointed thereto, so that the brush can rise and fall as the bolt is rotated. A convenient mode of jointing the arms *c c* to the posts *b b* is to simply hook the arms into eye-bolts *b' b'*, attached to the chest-posts. The brush should not be allowed to bear heavily

upon the cloth *a*. The brush is therefore supplied with attachments, preferably in the form of the irons *c' c'*, which are adapted to bear upon the guides *a³ a³* of the bolt. These so-called “guides” are attached to and extend around the bolt. They are provided with a surface, *a⁴*, upon which the part *c²* of the irons bears as the bolt rotates. Thus the brush, after being properly adjusted to the bolt-cloth *a*, and as shown in Fig. 3, is upheld, so as not to injure the cloth or to brush it too closely. At the same time the weight of the brush and its attachments operates to hold the brush down to the bolt. A spring might be used for this purpose, in which case one end of the spring might be made to bear against the roof or the wall of the chest, and the other end of the spring against or upon the brush; or, in place of the spring, or in connection with the spring, the iron *c'* may have the lug *c³*, and extended to come beneath the surface *a⁴*, which, for this purpose, may be suitably extended, as shown, for the lug to come beneath it.

The arms *c c* are preferably in the form of bolts and provided with the nuts *c⁴ c⁴*, by means of which the brush, the irons, and the arms are clamped together. The openings *c⁵* in the irons are elongated vertically, to enable the brush to be adjusted accurately to the bolt-cloth *a*. The brush may be in sections.

I claim—

1. The combination, substantially as described, of the bolt A, having the guides *a³ a³*, the brush C, the arms *c c*, irons *c' c'*, and the chest B.

2. The combination, substantially as described, of the bolt A, having the guides *a³ a³*, the brush C, the arms *c c*, and the irons *c' c'*, provided with the lugs *c³ c³*, and the chest B.

Witness my hand this 7th November, 1883.

THOMAS McCUDDEN.

Witnesses:

C. D. MOODY,
C. E. HUNT.