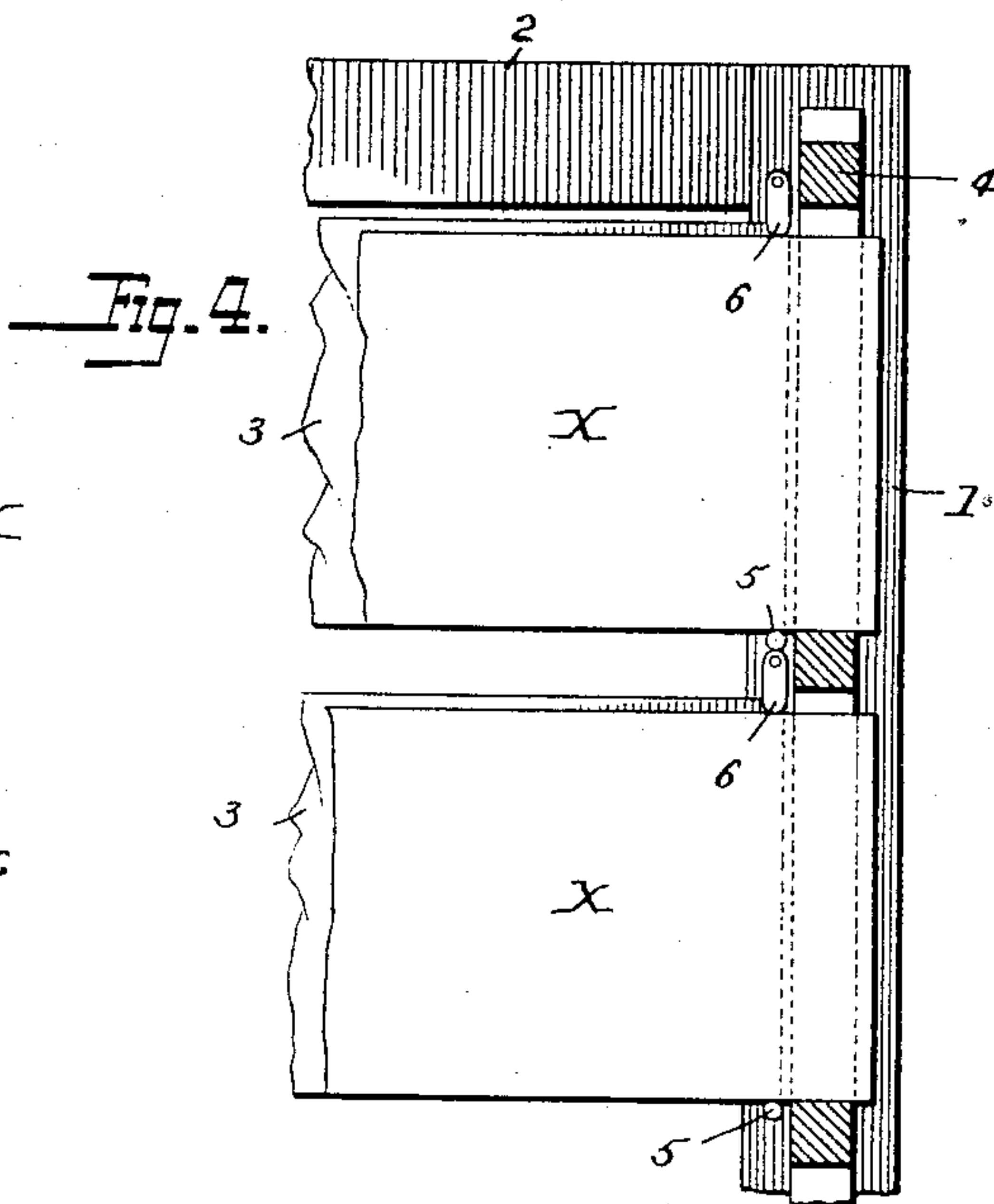
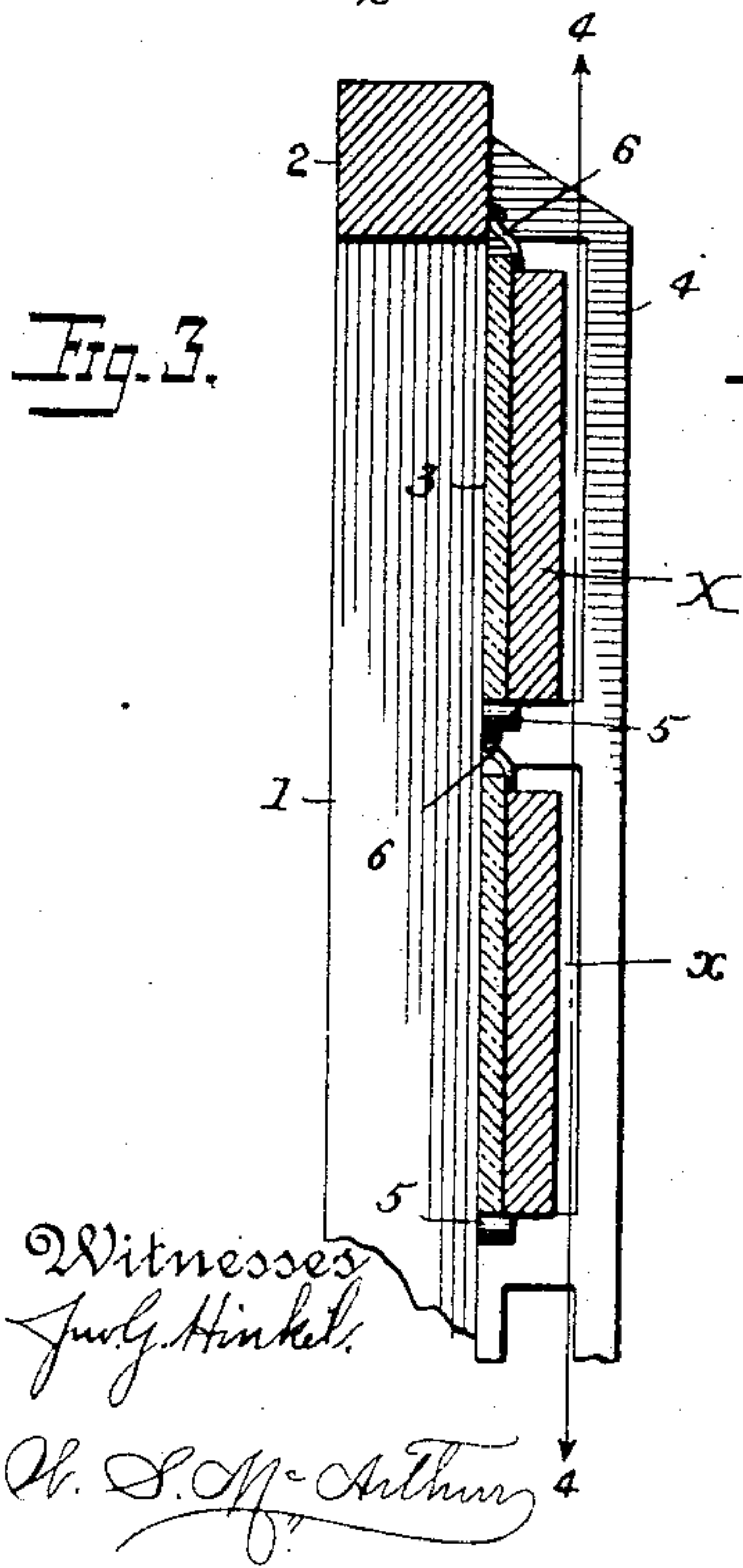
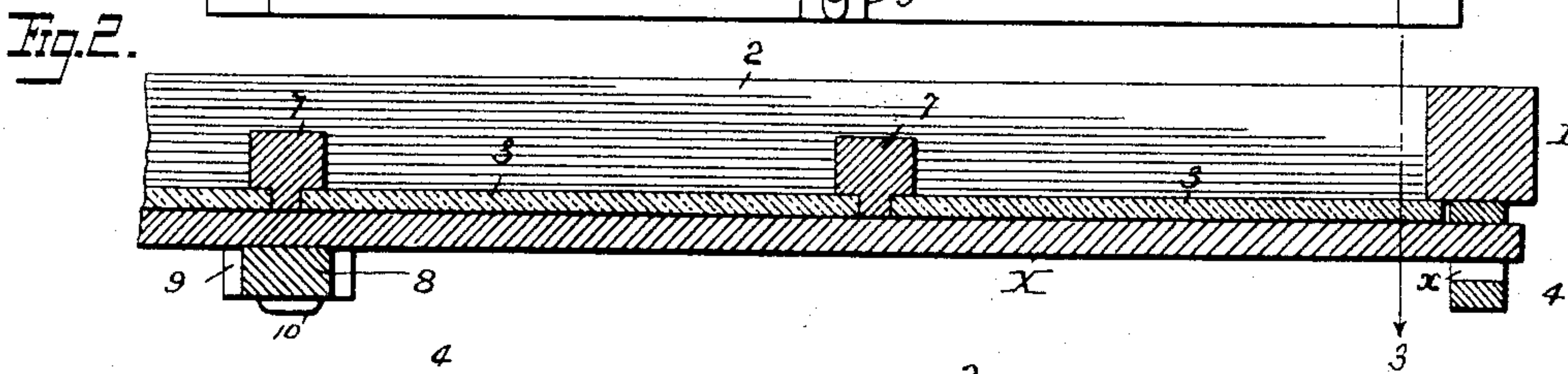
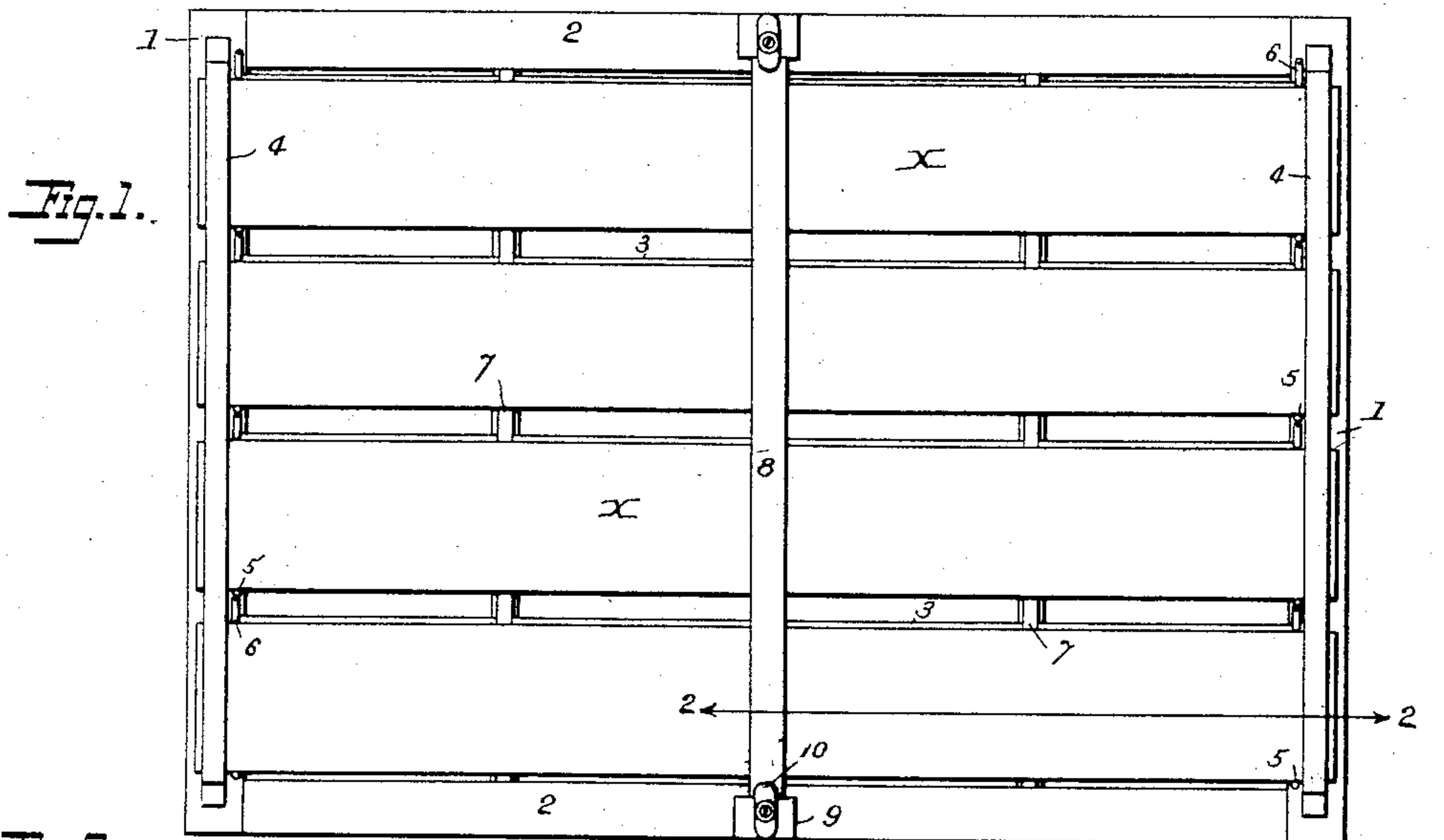


(No Model.)

J. BAYNES.
PHOTO ENGRAVING FRAME.

No. 436,687.

Patented Sept. 16, 1890.



Witnesses
Judy Hinkel.

Ch. S. McArthur

Inventor

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By his Attorneys

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UNITED STATES PATENT OFFICE.

JOHN BAYNES, OF WESTCHESTER, NEW YORK.

PHOTO-ENGRAVING FRAME.

SPECIFICATION forming part of Letters Patent No. 436,687, dated September 16, 1890.

Application filed February 10, 1890. Serial No. 339,824. (No model.)

To all whom it may concern:

Be it known that I, JOHN BAYNES, a subject of the Queen of Great Britain, residing at Westchester, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Photo-Engraving Frames, of which the following is a specification.

In the manufacture of many articles which are ornamented by photo-engraving processes—as sword-scabbards, moldings, &c.—it is frequently necessary to make a large number of similar articles at one time. To avoid the extended manipulations which would be necessary if the negatives or pattern-plates or stencils were separately applied and secured in position on the separate articles, I have devised a frame adapted to support a large number of pattern-plates in fixed positions and a corresponding number of articles to be photo-engraved in proper positions in respect to the pattern-plates, and so as to be readily applied and removed. The construction of the frame will vary to some extent, according to the forms and dimensions of the articles, one construction being illustrated in the accompanying drawings, in which—

Figure 1 is a rear elevation of the frame. Fig. 2 is an enlarged plan of part of the frame in section on the line 2 2, Fig. 1. Fig. 3 is a section on the line 3 3, Fig. 2. Fig. 4 is a section on the line 4 4, Fig. 3.

The frame consists of side pieces 1 1, cross-bars 2 2, supports for the pattern-plates 3 3 3, and supports for the objects or articles X to be photo-engraved. As shown, there is a strip or rib 4 at the back of each side piece 1, and in these strips are recesses α , the sides and bottoms of which constitute bearings for the objects to be engraved. (Shown in the form of bars for moldings, &c.) Between the strips 4 are arranged the pattern-plates 3, of glass or other suitable material, and the bearings for such plates consist of pins 5, driven into the side pieces of the frame, and the plates are secured in position by clips,

glaziers' tacks, or otherwise. As shown in Fig. 4, there are pivoted spring-clips 5, and the sides of the strips 4 prevent longitudinal motion of the plates. When the number of articles to be made demands it, or when the pattern is short, additional uprights 7 7 are used intermediate of the side pieces 1 1, the plates extending between the uprights and being supported at the ends thereon.

The bearings for the articles X are arranged to support each article in position at the rear of the plate, so that the rays of light passing through the latter may fall directly on the face of the article.

The articles X may be wedged in place or secured in any desirable way. I prefer to use a locking-strip 8, extending across and bearing on all the strips about midway of their length, fitting between blocks 9 9, and secured in place by turn-buckles 10 10. When the articles X are shorter than the length of the frame, two or more locking-strips 8 are used. It will be evident that the articles to be engraved may be readily placed in and removed from the frame without disturbing the pattern-plates, and also that the latter may be put in place and removed without difficulty.

It will also be evident that the proportions of the frame will vary with the dimensions of the pattern-plates and articles or objects operated on.

Without limiting myself to the precise construction and arrangement of parts shown, I claim—

1. A frame for use in photo-engraving, consisting of connected uprights and cross-pieces provided with bearings for a series of pattern-plates and for a series of articles and with devices, as set forth, for securing such plates and articles temporarily in place, substantially as described.

2. The combination, in a frame for photo-engraving, of uprights, cross-pieces, ribs 4, having slots α , and bearings 5 for the pattern-plates, substantially as set forth.

3. A photo-engraving frame provided with

bearings for pattern-plates and articles to be engraved and with a movable locking-strip 8, substantially as set forth.

5 4. The combination, in a photo-engraving frame, of uprights 1 7, cross-pieces 2, bearings 5, strips 4, having bearings for the objects to be engraved, and securing devices, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two 10 subscribing witnesses.

JOHN BAYNES.

Witnesses:

JOSEPH A. BECKER,
THOMAS F. COYLE.