

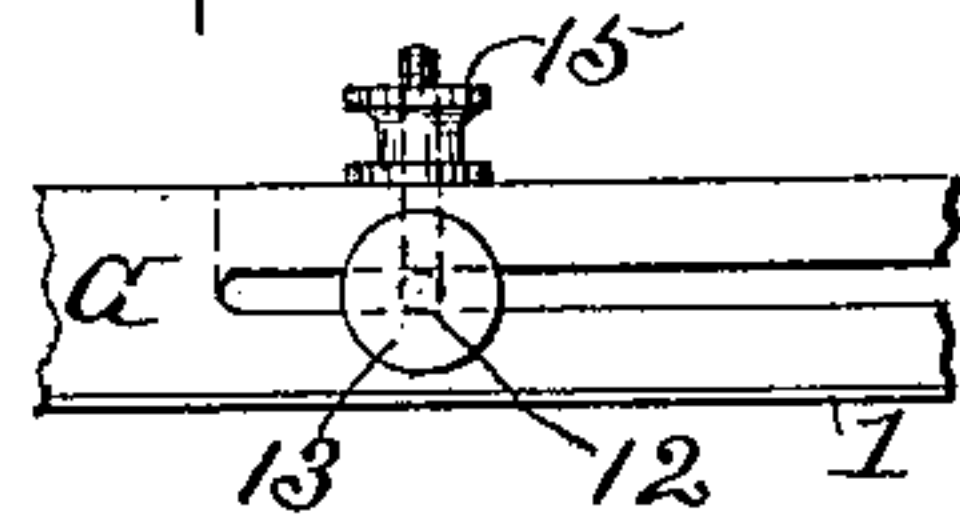
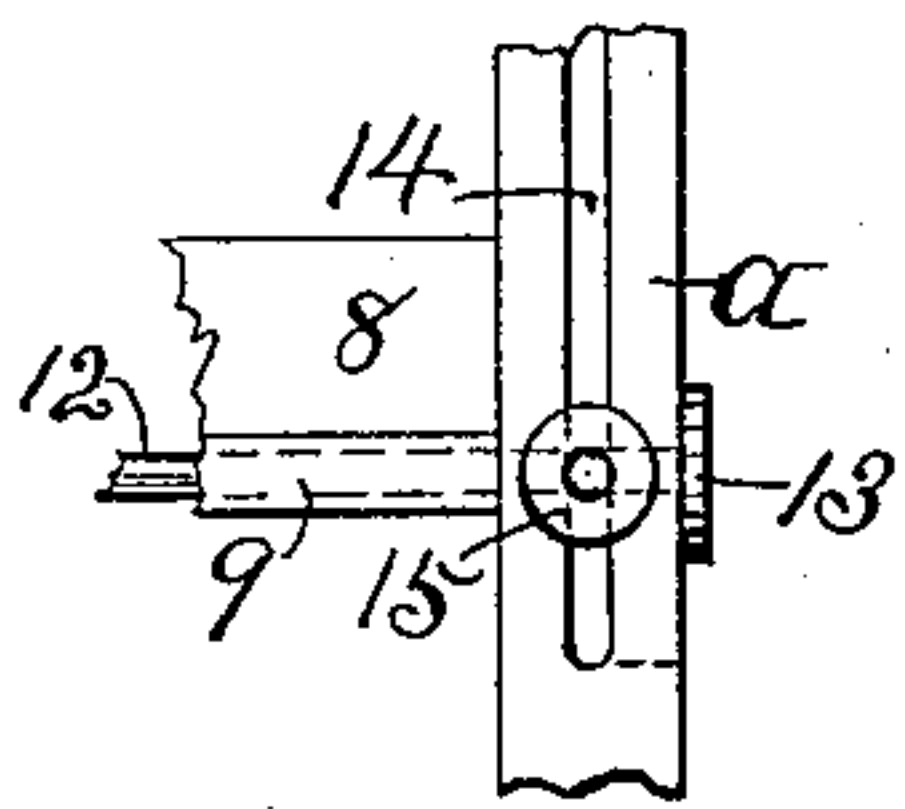
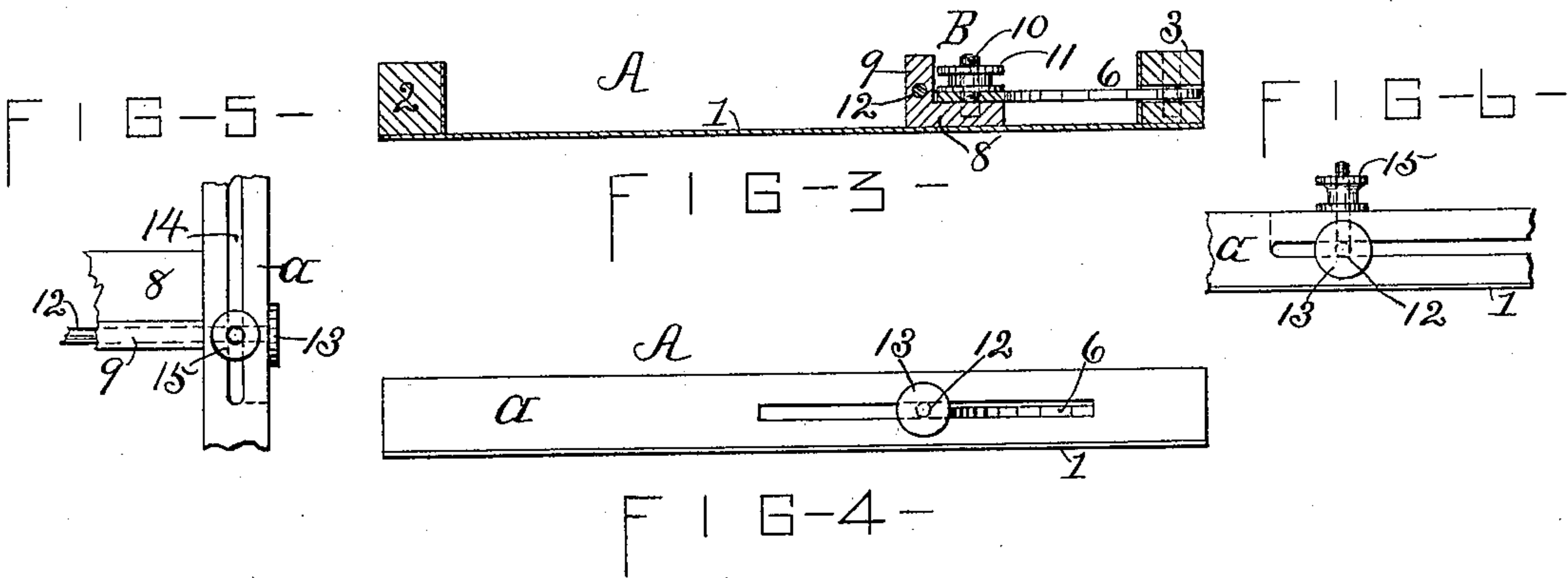
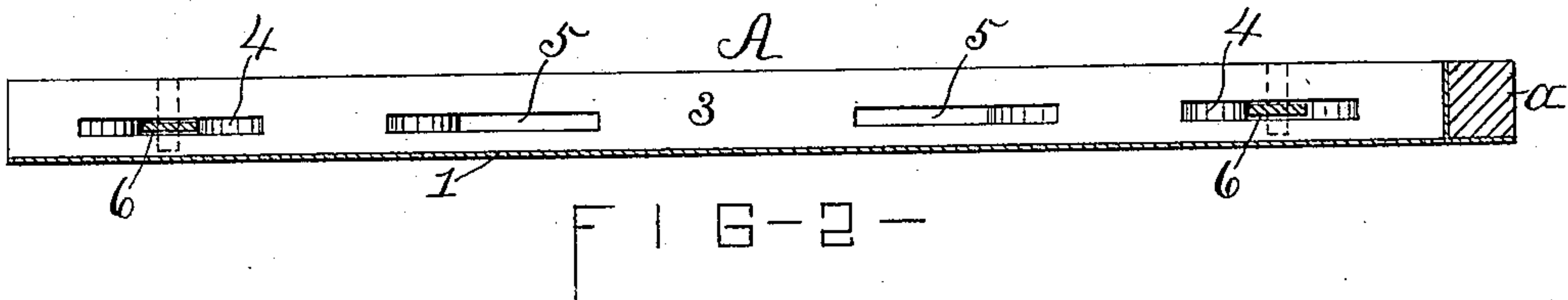
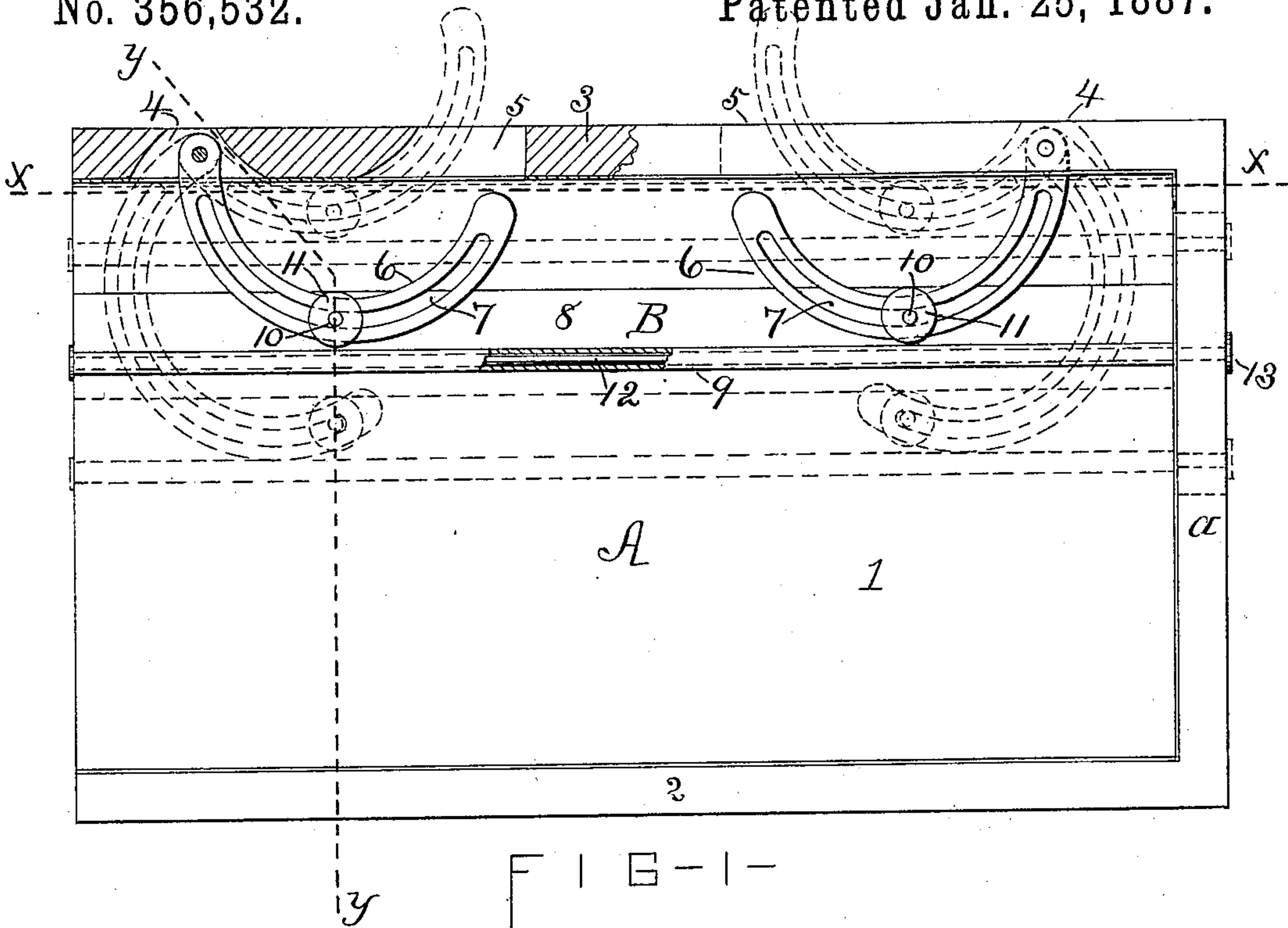
(No Model.)

E. M. GROVER.

LOCK-UP FOR PRINTERS' GALLEYS.

No. 356,532.

Patented Jan. 25, 1887.



ATTEST—

A. D. Allen

Geo. D. Nash

INVENTOR—

Eugene W. Grover

per Wm. E. Raymond
his atty.

UNITED STATES PATENT OFFICE.

EUGENE M. GROVER, OF SYRACUSE, NEW YORK.

LOCK-UP FOR PRINTERS' GALLEYS.

SPECIFICATION forming part of Letters Patent No. 356,532, dated January 25, 1887.

Application filed May 12, 1886. Serial No. 201,928. (No model.)

To all whom it may concern:

Be it known that I, EUGENE M. GROVER, of Syracuse, county of Onondaga, in the State of New York, a citizen of the United States, have
5 invented certain new and useful Improvements in Lock-Ups for Printers' Galleys, of which the following is a specification, reference being had to the accompanying drawings, in which—

10 Figure 1 is a plan view of my invention; Fig. 2, a longitudinal vertical section taken on line *x x*, Fig. 1; Fig. 3, a transverse vertical section taken on line *y y*, Fig. 1; Fig. 4, an end view, and Figs. 5 and 6 detail views.

15 Similar letters and figures of reference indicate corresponding parts throughout the several views.

The object of my invention is to produce an improved lock-up for printers' galleys which
20 is adjustable to different widths of "set-up," and which can be locked at any desired point, and will hold the form of type securely. It is designed to take the place of the wedging-blocks of wood driven in alongside of the type-form, and of the metallic wedges, which are
25 wedged together by a key turned upon cogs or ratchet-teeth. It is constructed as follows:

A is the galley, constructed with a flat sheet-metal bed, 1, having rigid upright sides 2 3,
30 of wood or metal, and having also an end piece, *a*, across one end between the sides, all of the ordinary construction, except as to the side 3, which is provided with horizontal slots through it, 4 5, which slots are duplicated, and
35 the end *a*.

In each of the slots 4 I pivotally secure a curved adjuster, 6, which is upon the arc of a circle and is provided with a curved slot, 7,
40 the sides of which are upon the same arc of a circle as the adjuster.

B is my locking-bar, constructed with a flat body, 8, and an upright flange, 9, the whole standing upon the bed 1 at about the same height as the sides 2 3 and end *a*, and all being of somewhat less height than the type
45 standing upon the bed, so as not to interfere with the face of the type or be in the way. Upon this body 8 I erect posts 10, provided with a screw-thread upon their upper ends.

50 These posts stand up to about the same height as the flange 9. Upon these posts I place the screw-buttons 11. These posts fit loosely in the slots 7. I usually place a washer between the buttons 11 and the adjuster 6 upon these
55 posts. I also construct a slot longitudinally

and horizontally through the end *a*, as shown by the dotted lines in Fig. 1, in which slot I insert one end of the rod 12, which extends lengthwise through the bar B, projecting beyond the end of the bar far enough to reach
60 through the end *a*, and upon its outer end I place a head, 13, which prevents its removal, and this rod, and its head sliding with the bar B lengthwise of that slot, operates to guide the bar and to prevent its moving away from
65 the end *a*. When the bar is thrown up to the side 3, the free ends of the adjusters pass outward through the slots 5, as shown in Fig. 1 by the dotted lines. I also show, by dotted
70 lines in Fig. 1, the bar thrown inward to the greatest extent possible, the posts 10 then being at the extreme outer ends of the slots in the adjusters.

In Figs. 5 and 6 I show a device for locking the rod 12, consisting of a vertical longitudinal
75 slot, 14, in the end *a*, opening into the rod-slot, an upright post in slot 14, connected to the rod 12, and a set-screw, 15, by which I lock the rod at any point.

I operate my device as follows: As the type
80 are set up they are placed in the galley in the ordinary way, and when the form is set up or the galley filled and I desire to lock it I press the bar B firmly against the type, and when
85 pressed up hard enough I screw down the buttons 11, and thus fastening the adjusters 6 and holding the bar B securely and locking the galley. When I use the locking device in the
90 end *a*, I also lock the rod 12 by the set-screw 15; or I can lock the rod 12 first, and then, pressing against the end of the bar B, by the leverage thus obtained I can lock the galley
up tighter.

What I claim as my invention, and desire to secure by Letters Patent, is—

95 A lock-up for printers' galleys, consisting of a galley provided with a slotted side, a locking-bar having a projecting rod fitting into the galley end and provided with adjusting set-screw, and curved slotted adjusters pivotally
100 mounted in the slotted galley-side and adjustably secured to the locking-bar by set-screws locking the adjusters, substantially as shown and described.

In witness whereof I have hereunto set my
105 hand this 27th day of April, 1886.

EUGENE M. GROVER.

In presence of—

A. D. ALLEN,
F. W. BARKER.