

925,934.

B. D. MILLER.  
PRINTING FRAME.  
APPLICATION FILED JUNE 3, 1908.

Patented June 22, 1909.

2 SHEETS—SHEET 1.

Fig. 1.

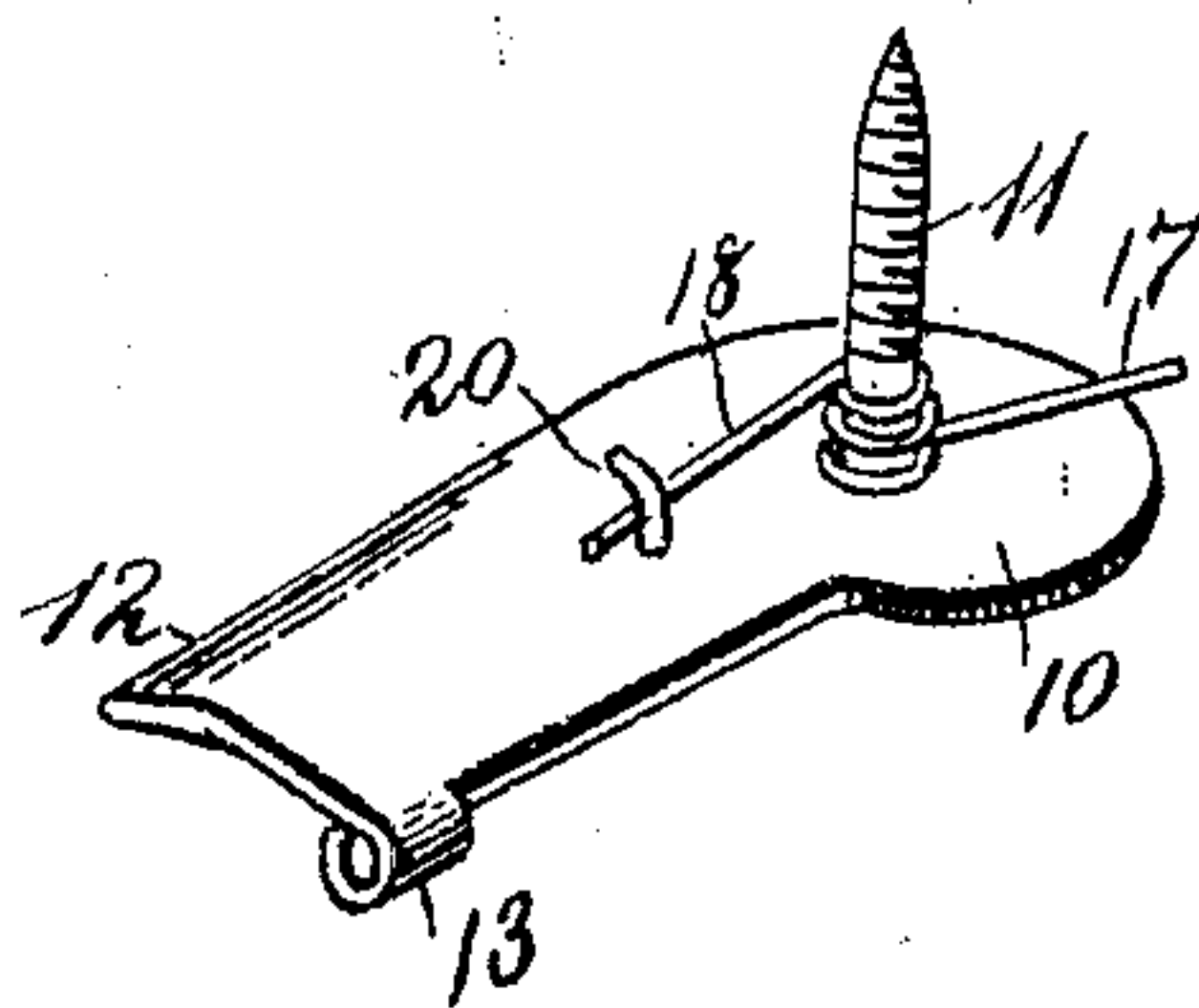
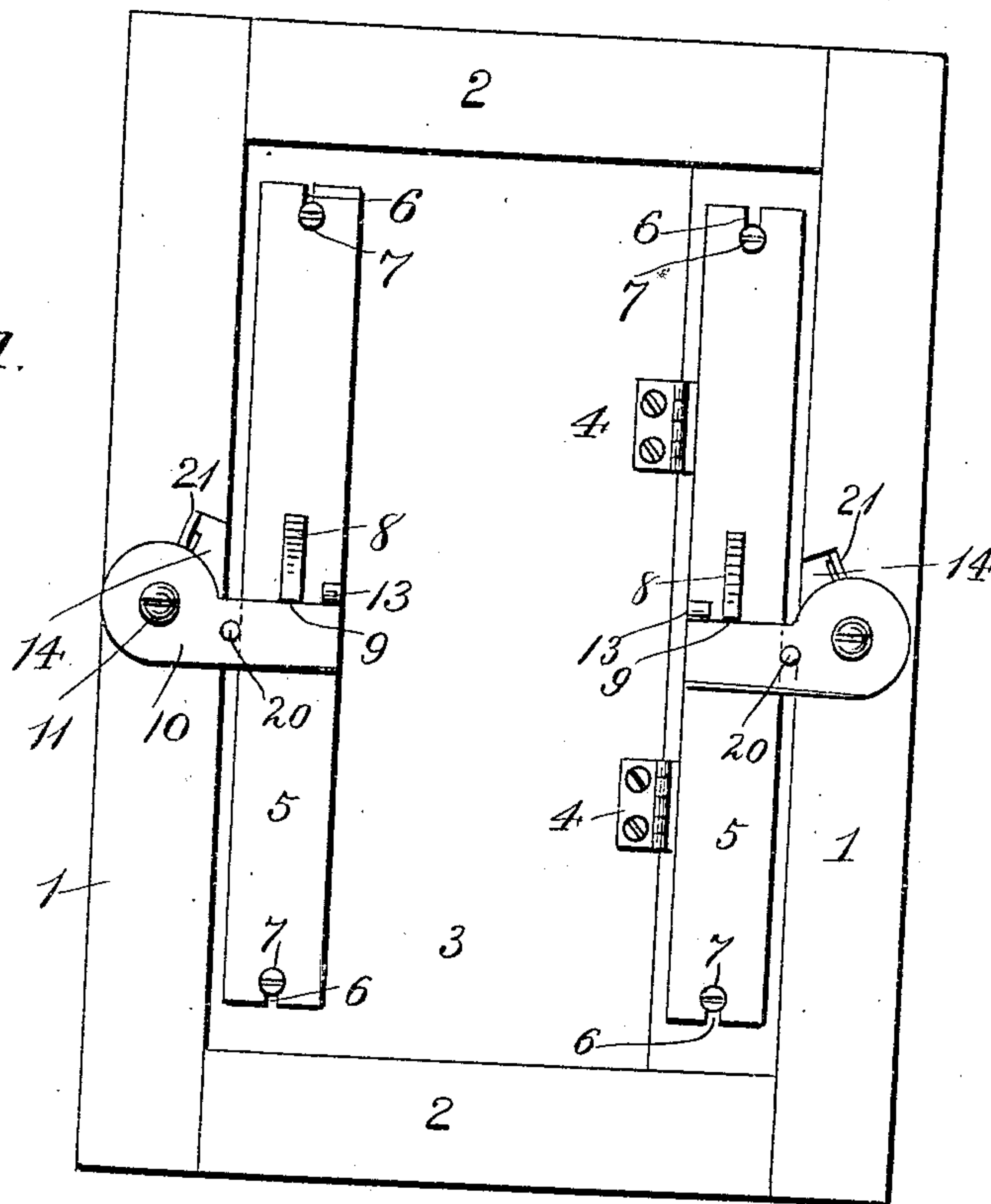


Fig. 4.

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By *Laurel Baggett*  
His Attorney

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2 SHEETS—SHEET 2.

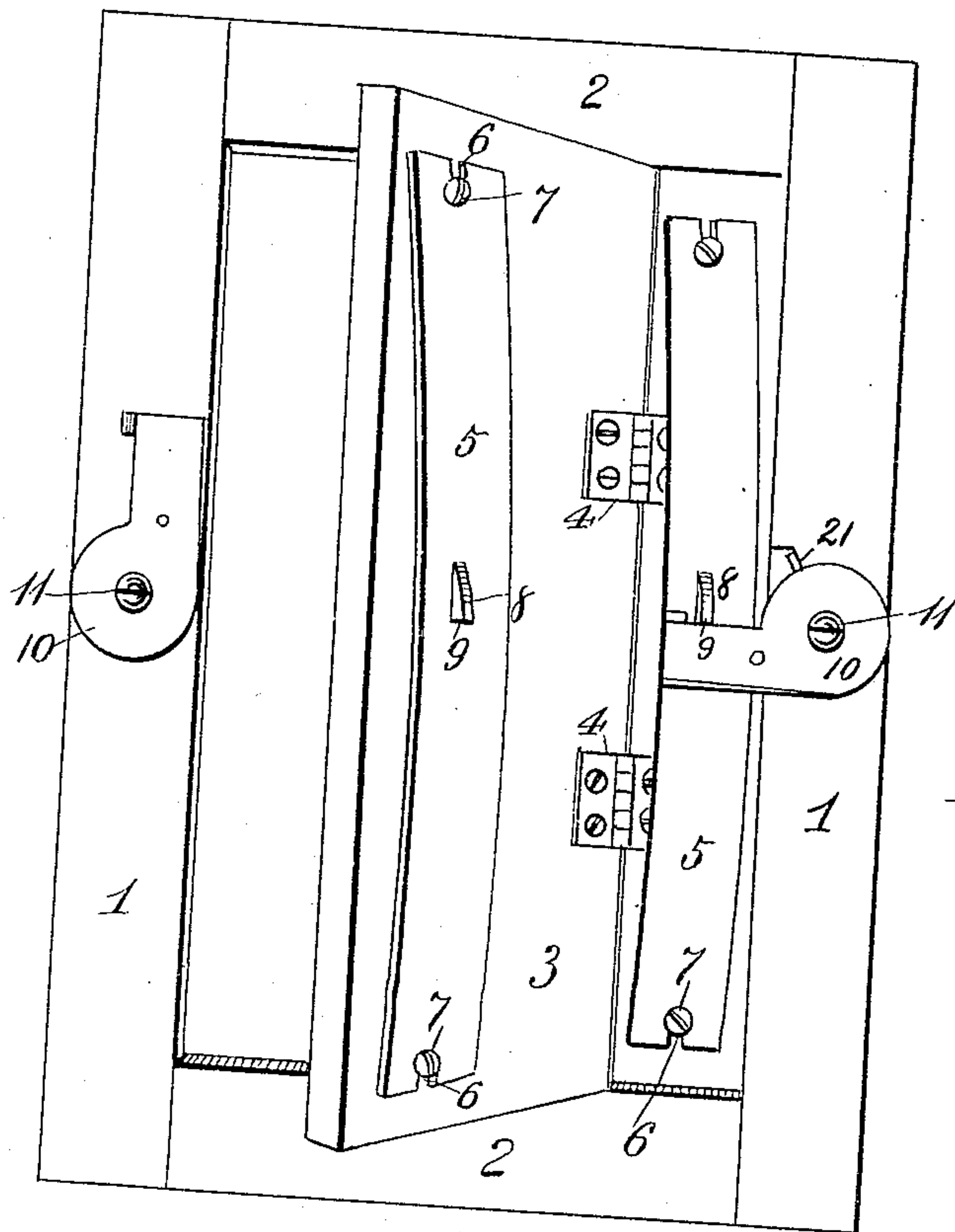


Fig. 2.

Fig. 5.

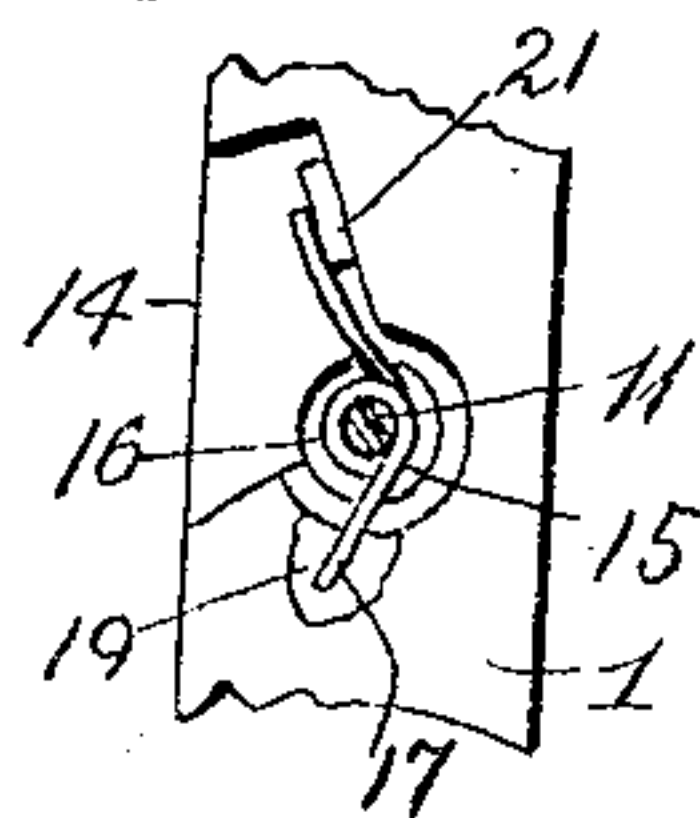


Fig. 6.

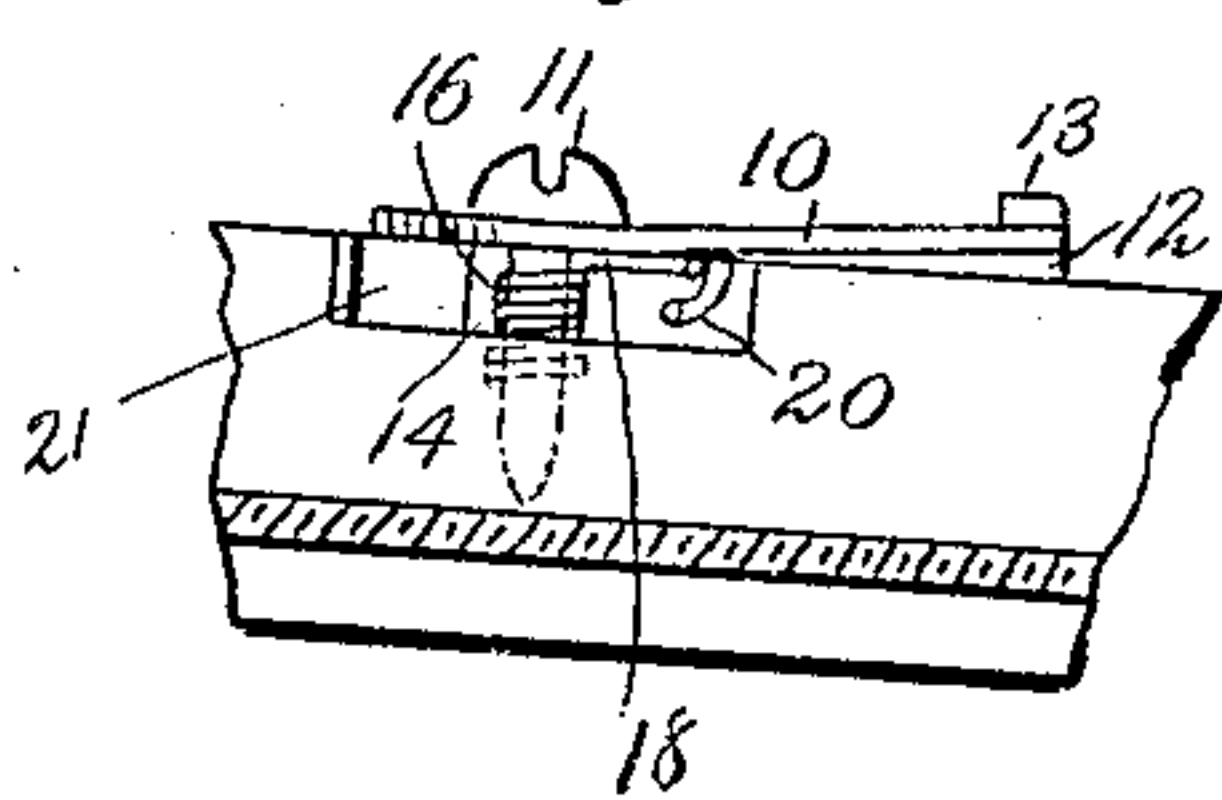
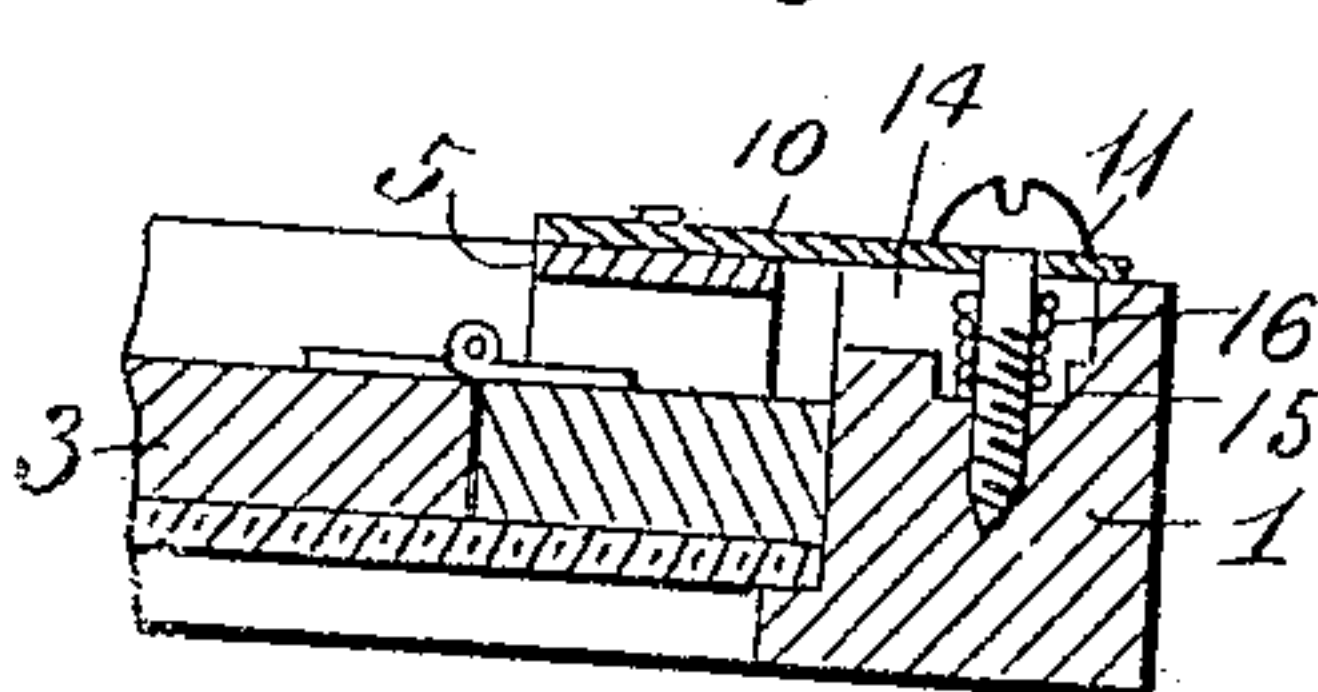


Fig. 3.



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# UNITED STATES PATENT OFFICE.

BENJAMIN D. MILLER, OF WOOSTER, OHIO.

## PRINTING-FRAME.

No. 925,934.

Specification of Letters Patent.

Patented June 22, 1909.

Application filed June 3, 1908. Serial No. 436,486.

*To all whom it may concern:*

Be it known that I, BENJAMIN D. MILLER, a citizen of the United States, residing at Wooster, in the county of Wayne and State of Ohio, have invented certain new and useful Improvements in Printing-Frames, of which the following is a specification.

My invention relates to a new and useful improvement in a printing frame, and is particularly adapted for the use of photographers, although I do not limit myself to this specific use, as it may just as well be used for other purposes.

It has for its object the provision of means for easily and quickly removing the back.

It has for its further object the employment of latches which may be automatically released from engagement with the back to allow the inspection of a part of the print, or to allow the removal of the entire back as may be desired.

It is well-known that during printing it is often desired that the print be inspected, and considerable time is wasted in this operation, and it is for the saving of time and labor that I construct my frame as will be more clearly described and shown in the drawings forming a part of this specification, in which—

Figure 1 is a view showing the back in position; Fig. 2 shows a section of the back opened to allow inspection; and Figs. 3, 4, 5, and 6 are details of the latch mechanism.

The frame is constructed in the well-known manner having the side bars 1 and the end bars 2. The back 3 is made in two sections hinged as shown at 4, and on each section there is a bow spring 5. These springs are provided at each end with slots 6, which engage screws 7. The heads of the screws are somewhat wider than the slots in the spring, and in this way secure the springs to the back, but still allow a sliding movement of the springs when put under tension. On the top of each of these springs 5 I provide a lug 8 whose upper surface is beveled as clearly shown in the drawings and presents a shoulder 9, the purpose of which will hereinafter be more clearly described. On each of the side bars I secure latches 10, which engage the bow springs 5. These latches are secured in position by means of the screws 11, and one edge is slightly turned up as shown at 12 so that the latch will easily ride over the edge of the spring. This latch is also provided with a knob 13 for engaging the fingers for operating the same.

Under each of the latches the bar is cut away, as shown at 14, and has a depression 15 somewhat deeper than the rest which receives the coil spring 16, which operates the latch. When in position this spring will surround the screw 11 for holding the latch in position. The coil spring 16 is wound so as to leave the straight ends 17 and 18, the end 17 entering a hole or opening 19 to the side of the depression 15, and the end 18 engaging a pin 20 on the under side of the latch. If desired I also provide the edge of the cutaway portion with a re-inforcing metal strip 21, which will always present a straight edge against which the pin 20 will abut to limit the movement of the latch.

With the various parts assembled, the operation will be as follows:—The back being in position, the latch is turned so as to engage the bow spring 5 and is allowed to ride over the lug 8 and engage the shoulder 9. In this position the coil spring 16 will be under tension. To disengage the latch the bow spring is slightly depressed so as to release the latch from the shoulder 9, and by means of the coil spring under tension the latch will swing around out of engagement with the bow spring. If it is desired to inspect the print only one latch is released and one section of the back opened, but if it is desired to remove the print release both latches and remove the back.

It is evident that slight changes might be resorted to in the form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I do not wish to be limited to the exact construction herein set forth, but:—

Having fully described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A printing frame having a removable back and means for securing the back consisting of bow springs secured to the back and latches for engaging the bow springs secured to the frame by means of screws, springs surrounding the screws engaging pins on the latches and adapted to be put under tension so as to automatically operate the latches when disengaged from the bow springs.

2. A printing frame having a removable back and means for securing the back consisting of latches secured to the frame by means of screws, coil springs surrounding the



screws adapted to operate the latches, one end of the springs entering holes in the frame and the other engaging pins on the latches.

3. A printing frame having a removable back, bow springs secured to the back having lugs on their tops and spring actuated latches secured to the sides of the frame adapted to engage the lugs for locking the frame in position.

10 4. A printing frame having a removable back, bow springs secured to the back having lugs on their tops and latches secured to the sides of the frame by means of screws adapted to engage the lugs, and coil springs surrounding the screws engaging pins on the latches so as to be under tension when the latches engage the lugs and to automatically release the latches when the bow springs are depressed.

20 5. A printing frame having a removable back, and means for securing the back consisting of spring actuated latches secured to the frame adapted to engage springs on the back and be automatically released when the springs are depressed.

25 6. A printing frame having a removable

back, and means for securing the back consisting of latches pivoted to the frame, and bow springs secured to the back having slots in both ends adapted to receive screws for holding them in place.

7. A printing frame having a removable back, and means for securing the back consisting of latches pivoted to the frame, bow springs secured to the back having slots in both ends adapted to receive screws for holding them in place, and lugs for engaging the latches.

8. A printing frame having a removable back, and means for securing the back consisting of latches pivoted to the frame, bow springs secured to the back having slots in both ends adapted to receive screws for holding them in place, and beveled lugs on the top of the bow springs for engaging the latches.

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

BENJAMIN D. MILLER.

Witnesses:

E. W. NEWKIRK,

BENTON G. HAY.