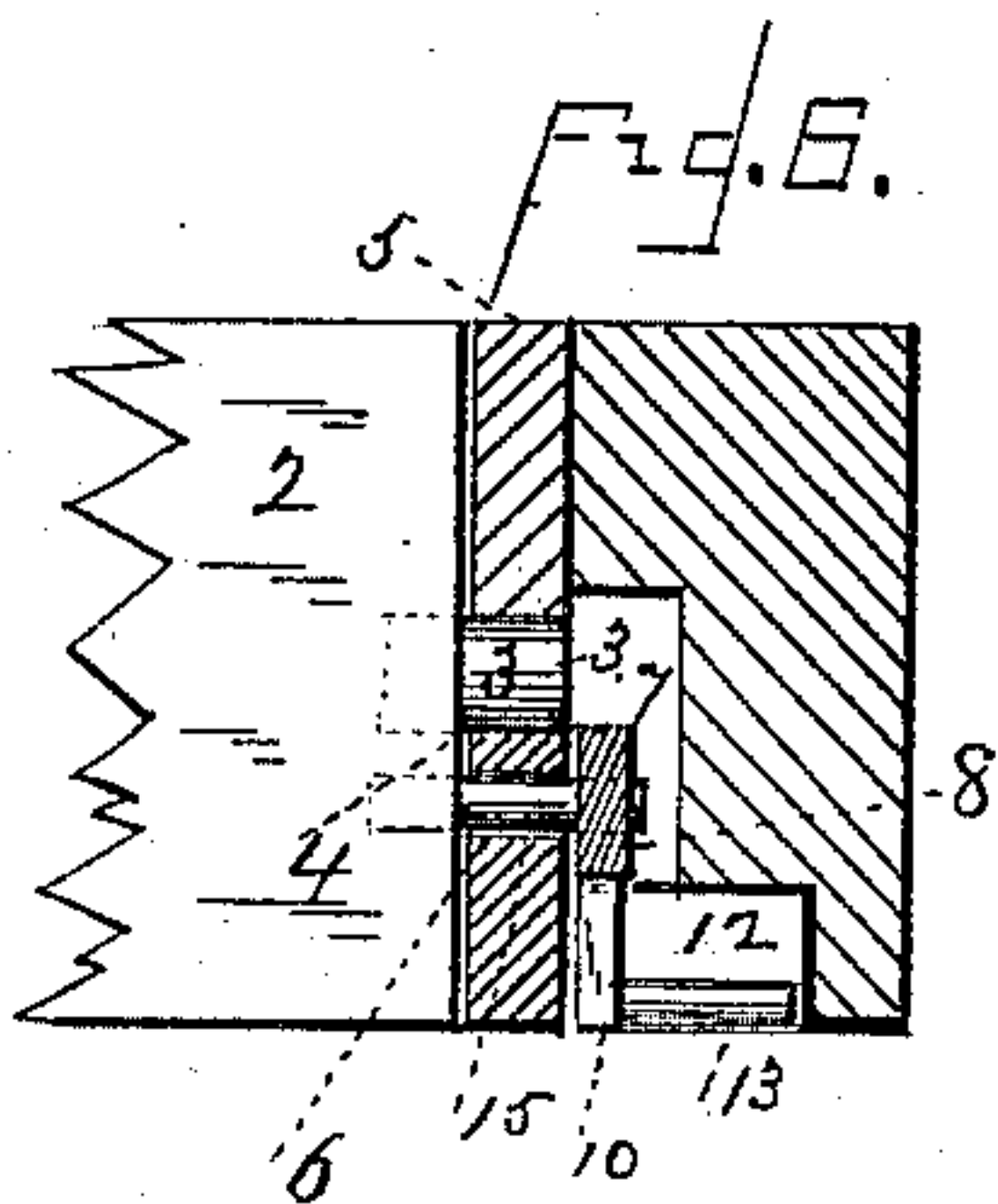
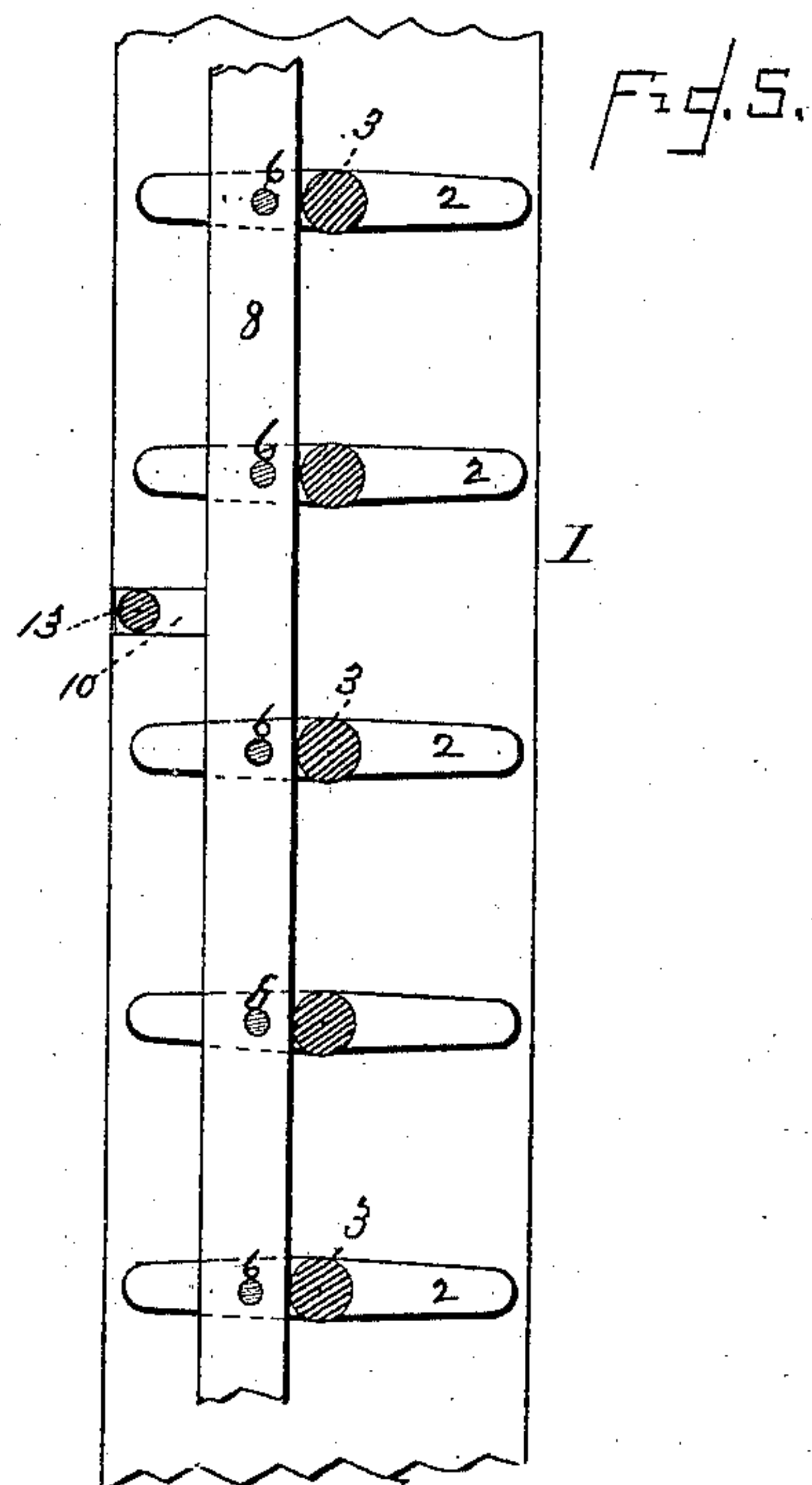
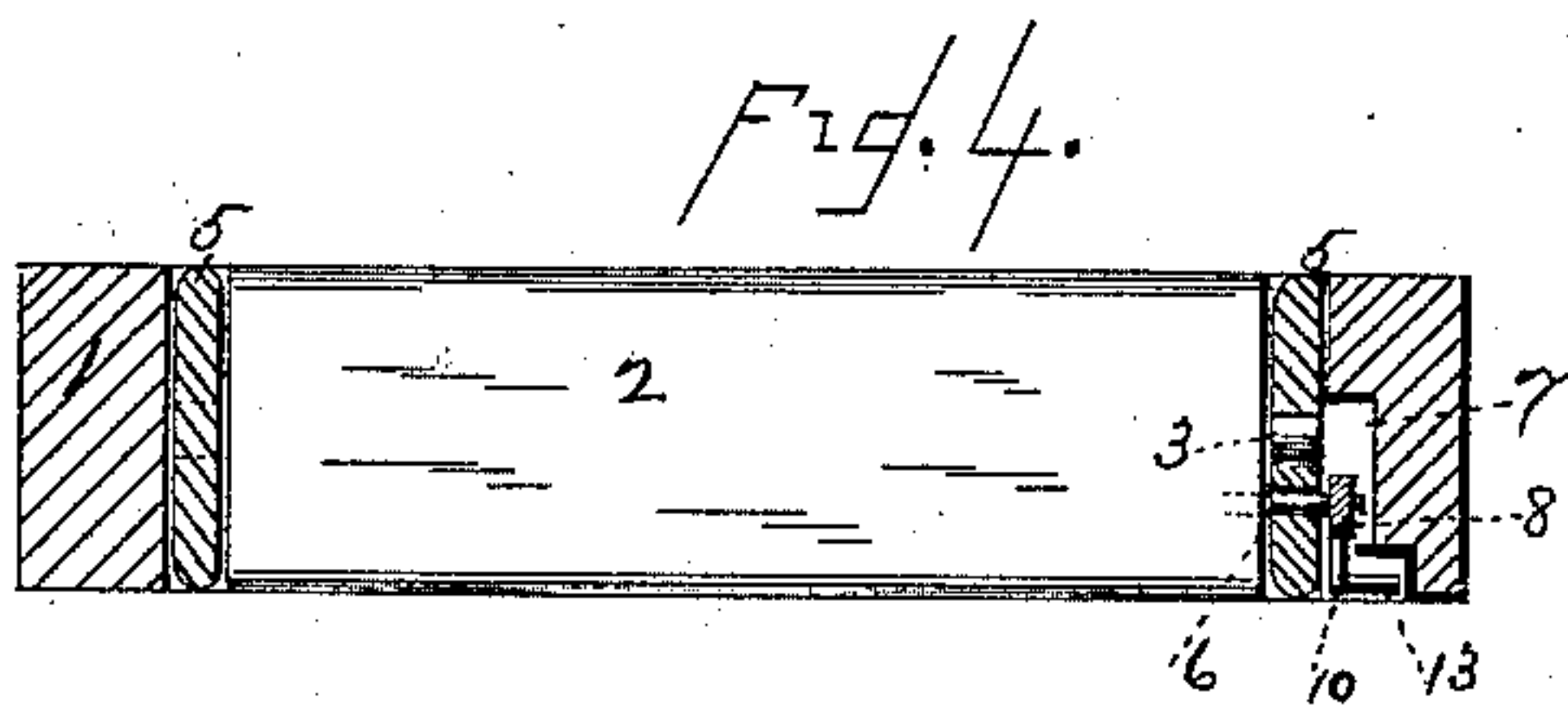
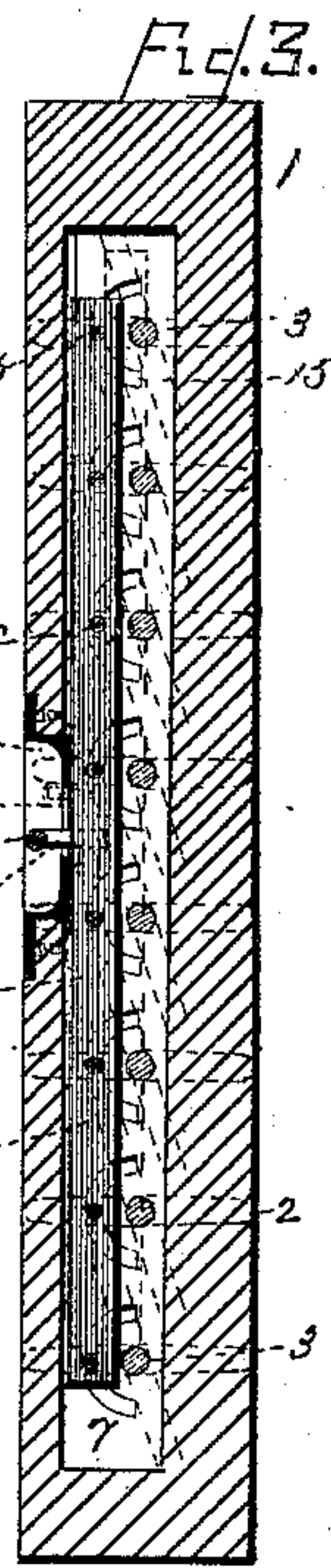
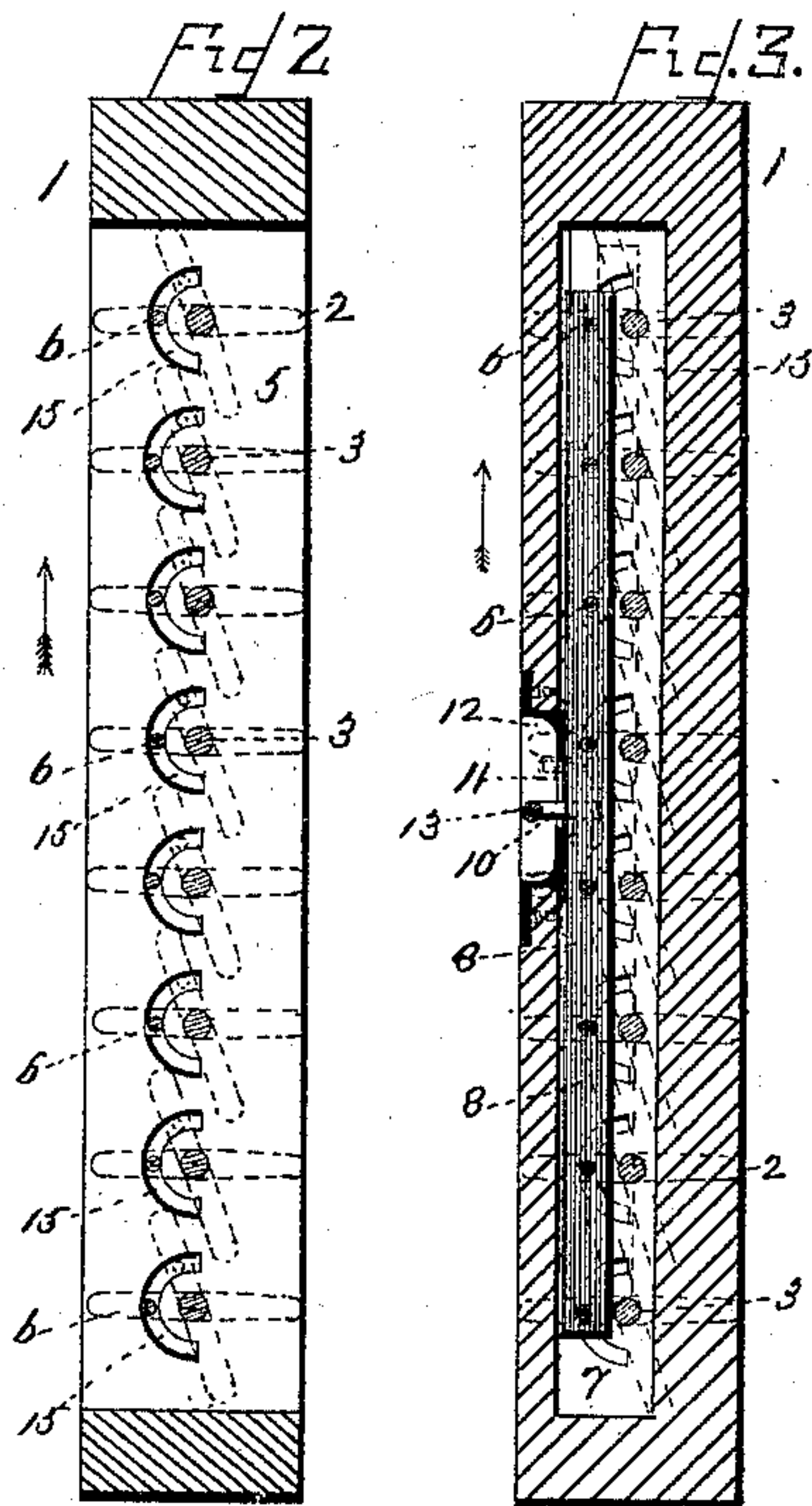
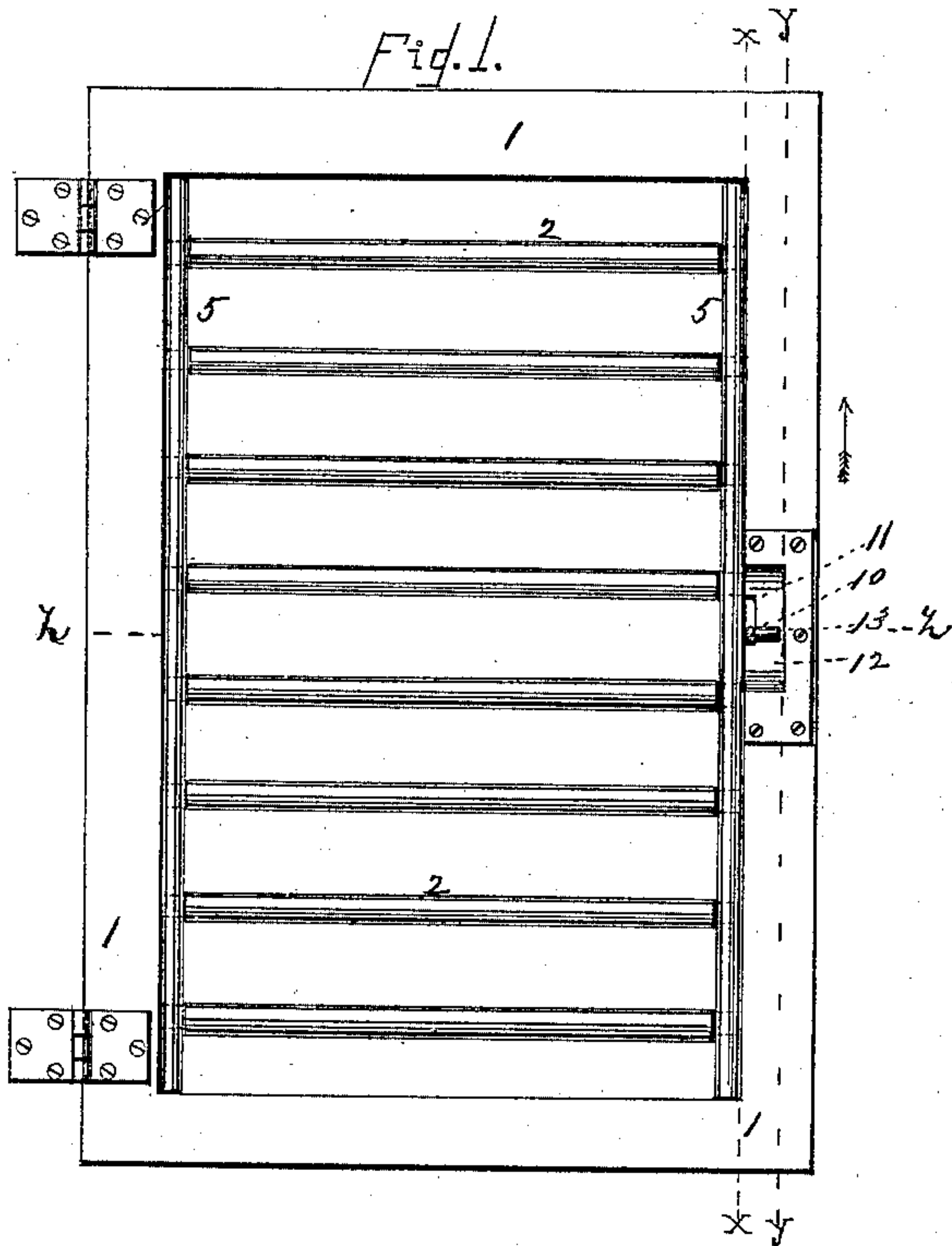


(No Model.)

J. CAHILL.
WINDOW BLIND.

No. 368,808.

Patented Aug. 23, 1887.



WITNESSES
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UNITED STATES PATENT OFFICE.

JOHN CAHILL, OF NEW YORK, N. Y.

WINDOW-BLIND.

SPECIFICATION forming part of Letters Patent No. 368,808, dated August 23, 1887.

Application filed April 11, 1887. Serial No. 234,463. (No model.)

To all whom it may concern:

Be it known that I, JOHN CAHILL, a citizen of the United States, residing at New York city, county and State of New York, have invented new and useful Improvements in Window-Blinds; and I do hereby declare that the following is a clear and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification.

The object of my invention is to produce a cheap, simple, effective, and easily-operated device for opening and closing the slats of window-blinds.

Referring to the drawings, Figure 1 is a front view of a window-blind embodying my invention. Fig. 2 is a sectional view on line *x x*, Fig. 1. Fig. 3 is a sectional view on line *y y*, Fig. 1. Fig. 4 is a sectional view of a slat on line *z z* of Fig. 1. Fig. 5 is an enlarged view of the ends of a number of slats, showing the pins and connecting-bar. Fig. 6 is an enlarged plan sectional view of the end of a slat.

Reference numeral 1 indicates the blind.

2 are the slats, with pivot-pins 3 3 entering the holes 4 4 cut into the bead 5, and upon which the said slats turn.

6 6 are pins fastened to one end of the slats, extending through segmental slots 15, cut in bead 5, and thence into the recess 7, made in the side of the blind 1.

8 is a connecting and operating bar placed in the recess 7, and to which the pins 6 6 are attached. Midway of this bar is fastened the arm 10, passing through small elongated opening 11 into the circular or oblong indenture 12, formed on the outside of the blind. The outer extremity of this arm has fastened to it the knob or handle 13.

Operation: By moving the knob 13 upward in direction of arrow the bar 8 is likewise moved in same direction. This movement causes the pins 6 6 to describe a semicircle in the slots 15, causing the slats to which they are attached to move upward and close. To open the slats move the knob downward and the bar and pins will perform the above-described movement in an opposite direction. By this arrangement the slats of a blind can be more readily opened and closed and held in any required position.

The parts constituting my invention are all made of metal, or part metal and wood, of any description and lightness.

It is more practicable in some cases that the knob 13 play within the indenture 12, so that no obstruction will mar the face of the blind to hinder its closing. In that case the indenture 12 should be made large enough to admit the forefinger and thumb of the operator, so that the knob can be easily and readily moved within said indenture.

I claim—

In a window-blind, the combination, with the slats 2, having pivot-pins 3, that enter through holes 4 into bead 5, of the end pin, 6, the bead 5, having segmental slots 15, through which said end pins extend into the recess 7, made in the side of the blind, the operating-bar 8, having arm 10 and knob 13, and the blind-frame 1, having opening 11 and indenture 12, substantially as set forth.

In witness whereof I hereunto set my hand in presence of two witnesses.

JOHN CAHILL.

Witnesses:

F. BARRETT,
FREDK. WM. RUBIEN.