

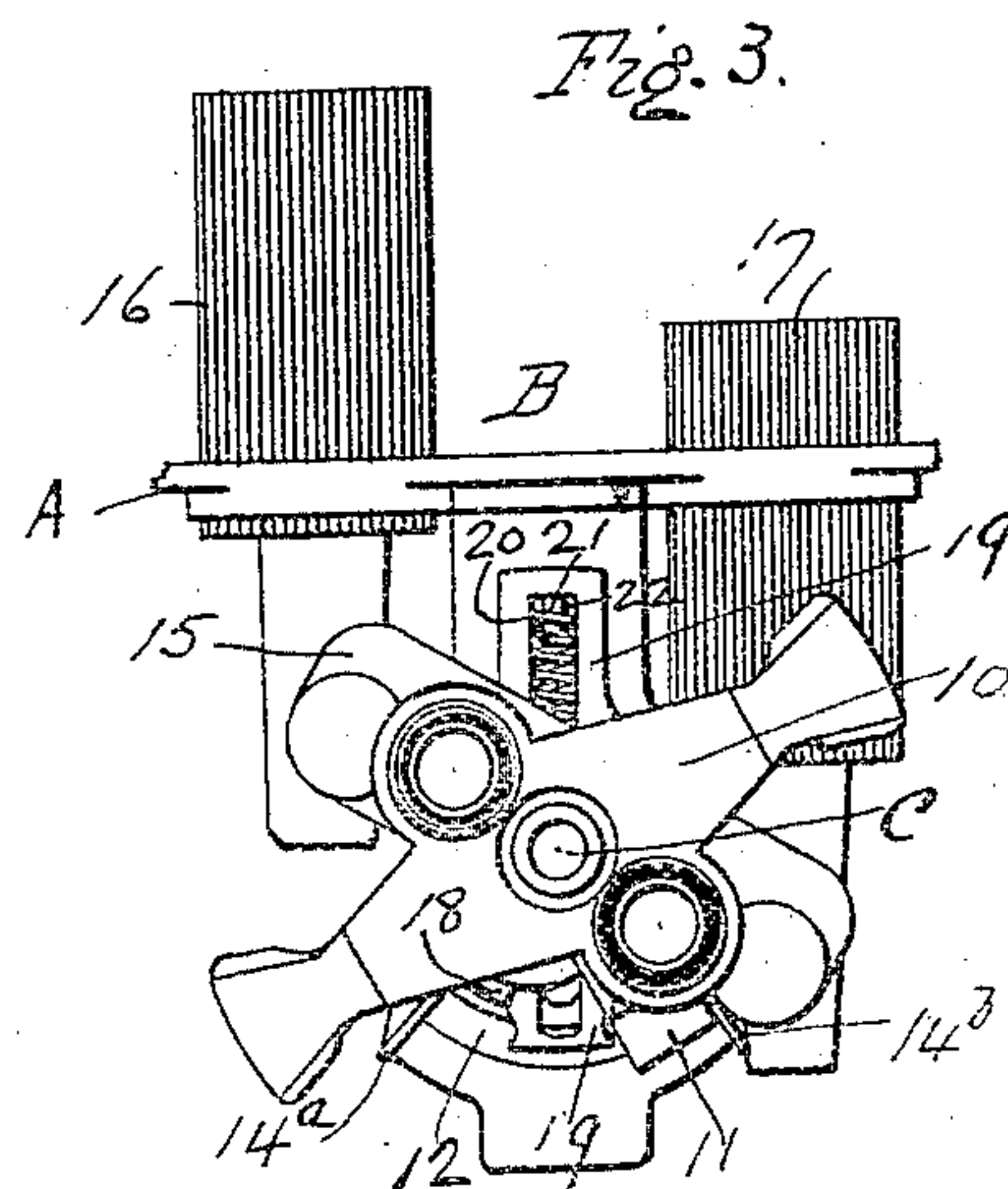
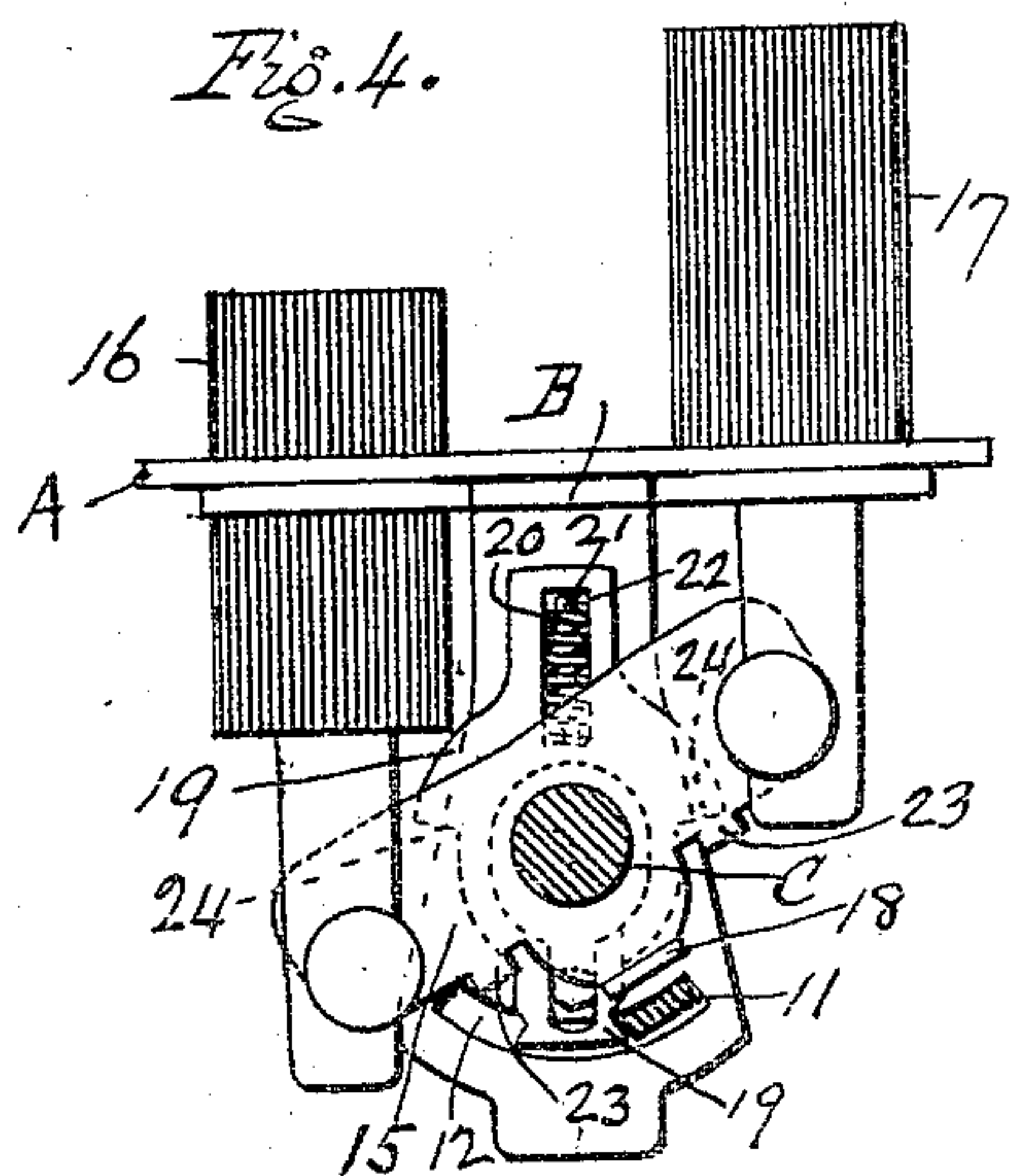
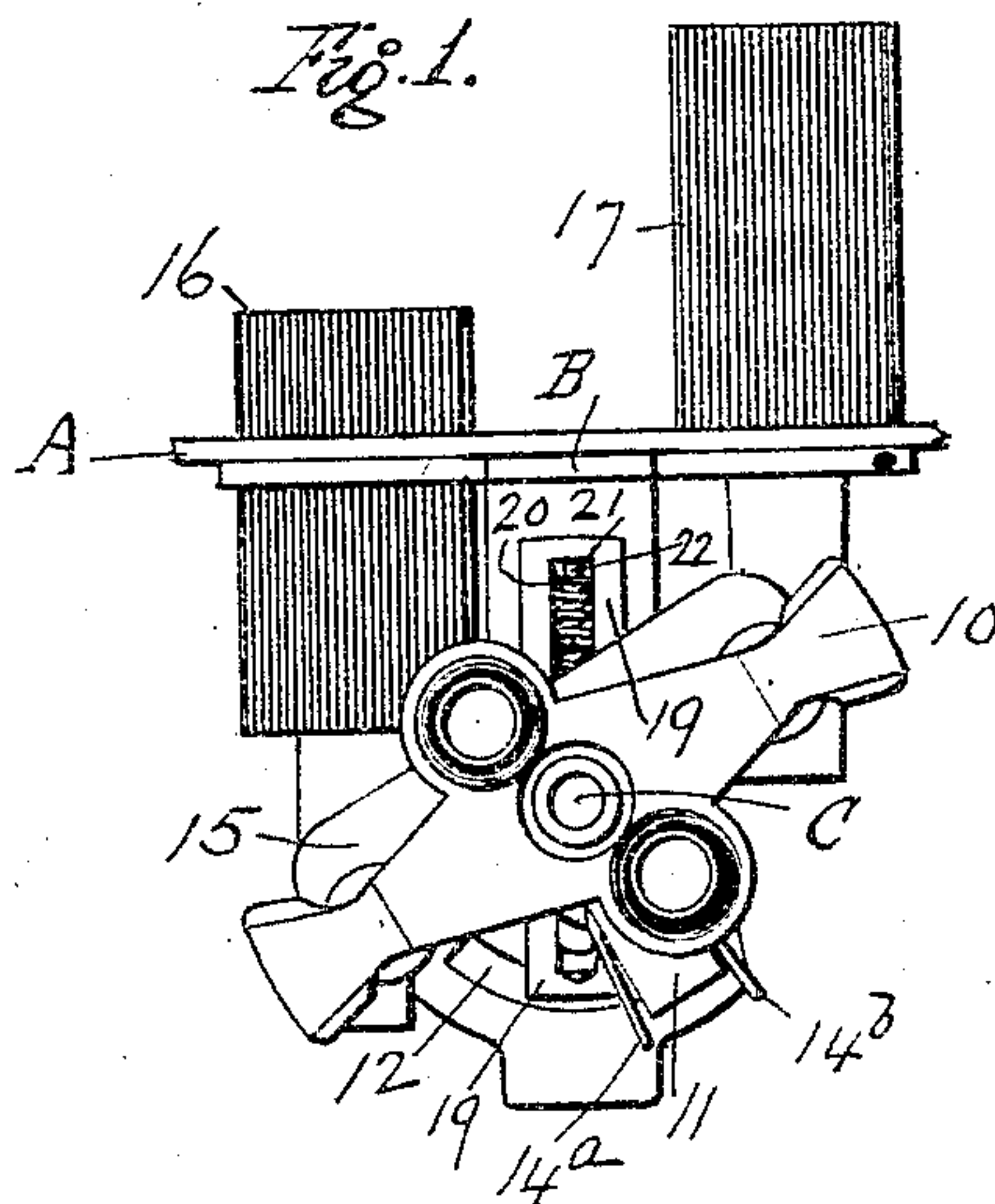
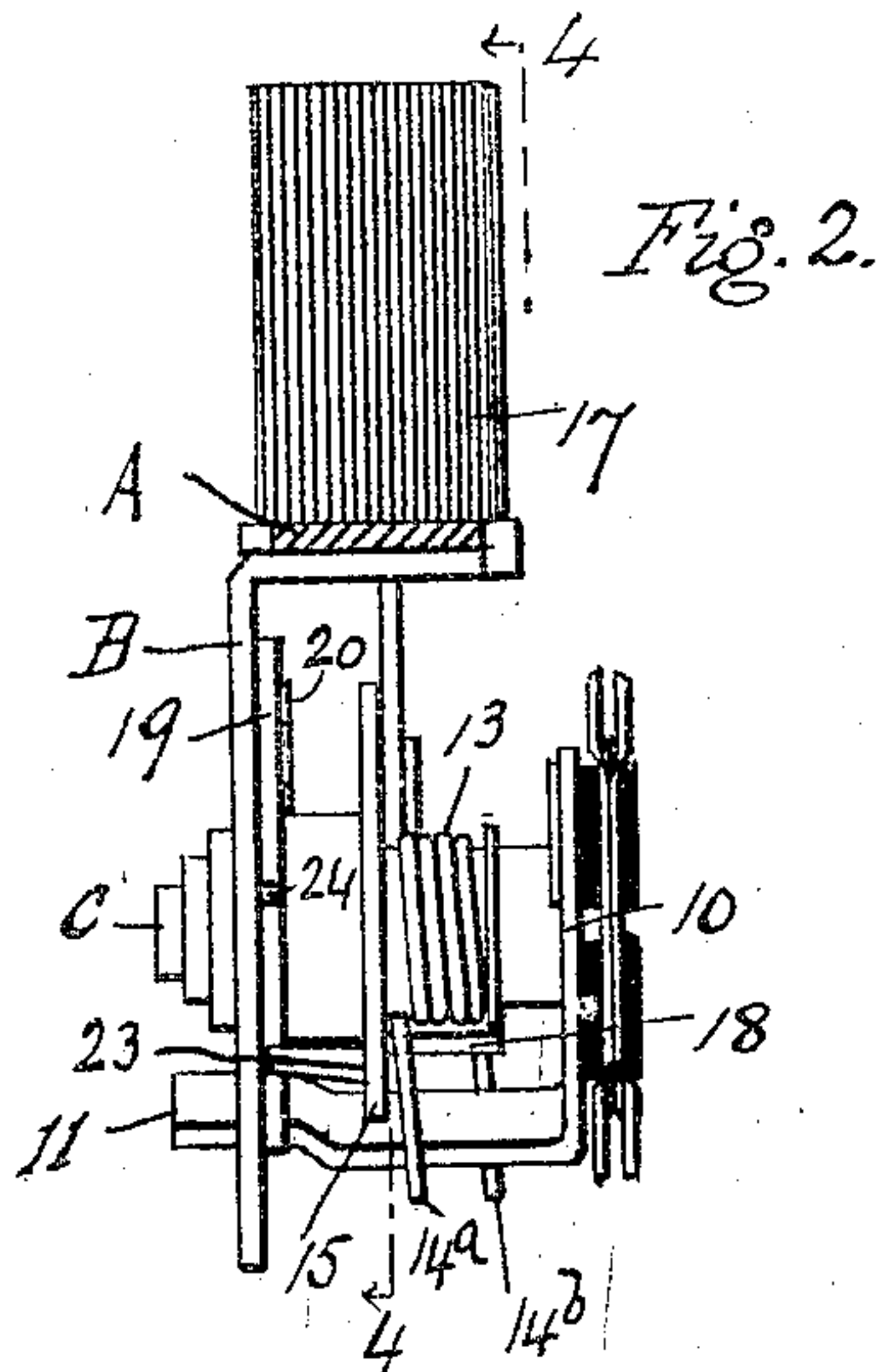
L. H. MOULTHROP.

SWITCH.

APPLICATION FILED SEPT. 12, 1908.

Patented Nov. 16, 1909.

940,645.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

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## SWITCH.

940,645.

Specification of Letters Patent.

Patented Nov. 16, 1909.

Application filed September 12, 1908. Serial No. 452,777.

*To all whom it may concern:*

Be it known that I, LEMBERT H. MOULTHROP, a citizen of the United States of America, residing in the city of Bridgeport, in the county of Fairfield, in the State of Connecticut, have invented a certain new and Improved Switch, of which the following is a specification.

The object of my invention is to provide a simple and efficient switch mechanism particularly with reference to the escapement for the contact member.

In the accompanying drawings, Figure 1 is a side elevation of the operating mechanism of a switch embodying my invention in one form; Fig. 2 is a side view thereof; Fig. 3 is a side elevation similar to Fig. 1 with the push buttons in another position; and Fig. 4 is a section on the line 4—4, Fig. 2.

The present invention will be readily understood by those skilled in the art, without illustrating the usual porcelain case and its common accessories, and I have accordingly shown merely the yoke or cross bar A carrying the standard B on which the switch mechanism is supported through the spindle C. On one end of the latter I mount the oscillating contact member 10, adapted to make and break contact with the terminals (not shown) carried by the porcelain case. A lug 11 extends from the contact piece 10 through the guide slot 12 in the standard B and the latter thus limits the extent of the oscillation of said contact piece. The spring 13 coiled on the spindle C, actuates the contact piece through the depending ends 14<sup>a</sup> and 14<sup>b</sup> which embrace the lug 11. The rock lever 15 to the opposite ends of which the shanks of the push buttons 16 and 17 are pivoted, is also provided with a lug 18 similarly embraced by the ends 14<sup>a</sup> and 14<sup>b</sup> of the actuating spring, and the latter thus tends to keep both of said lugs 11 and 18 in the same place. The rock lever and contact piece would consequently move together were no detent provided to temporarily restrain the latter.

The snap make and break of the contact is secured in this case as in my Patent No. 918,353 by a sliding detent bar 19 which however in the present construction is normally held by a spring 20 in position to oppose the movement of the lug 11 across the slot

12. The spring 20 may be conveniently arranged as shown, held at its upper end by the guide pin 21 and bearing at its lower end against the lower face of the slot 22. In order to lift the detent, I provide the rock lever with lugs 23 which engage shoulders 24 on opposite sides of the detent, said lugs and shoulders being arranged to operate near the end of the operating stroke of the push button.

The construction may be variously modified without departing from my invention and I do not limit myself precisely to that shown.

I claim as my invention:

1. In a push button switch, a stationary standard having a guide-way for a stop lug, an oscillating contact piece and a stop lug moving therewith and traveling in said guideway, in combination with a sliding detent guided on said standard and adapted to block the passage of said stop lug across its guideway, an abutment on said standard, a spring bearing at one end against said abutment and at the other end against said detent, and tending to keep said detent in engagement with said stop lug, together with means to move said detent out of engagement with said stop lug.

2. In a push button switch, a stationary standard having a guideway for a stop lug, an oscillating contact piece and a stop lug moving therewith and traveling in said guideway, in combination with a slotted detent sliding on said standard and adapted to block the passage of said stop lug across its guideway, a lug on the said standard working in the slot in said detent and serving to guide the latter, together with a spring abutting at one end against said lug and at the other end against the end of said slot and tending to keep said detent in engagement with said stop lug, together with means to move said detent out of engagement with said stop lug.

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

LEMBERT H. MOULTHROP.

Witnesses:

F. E. SEELEY,  
H. W. GOLDSBOROUGH.