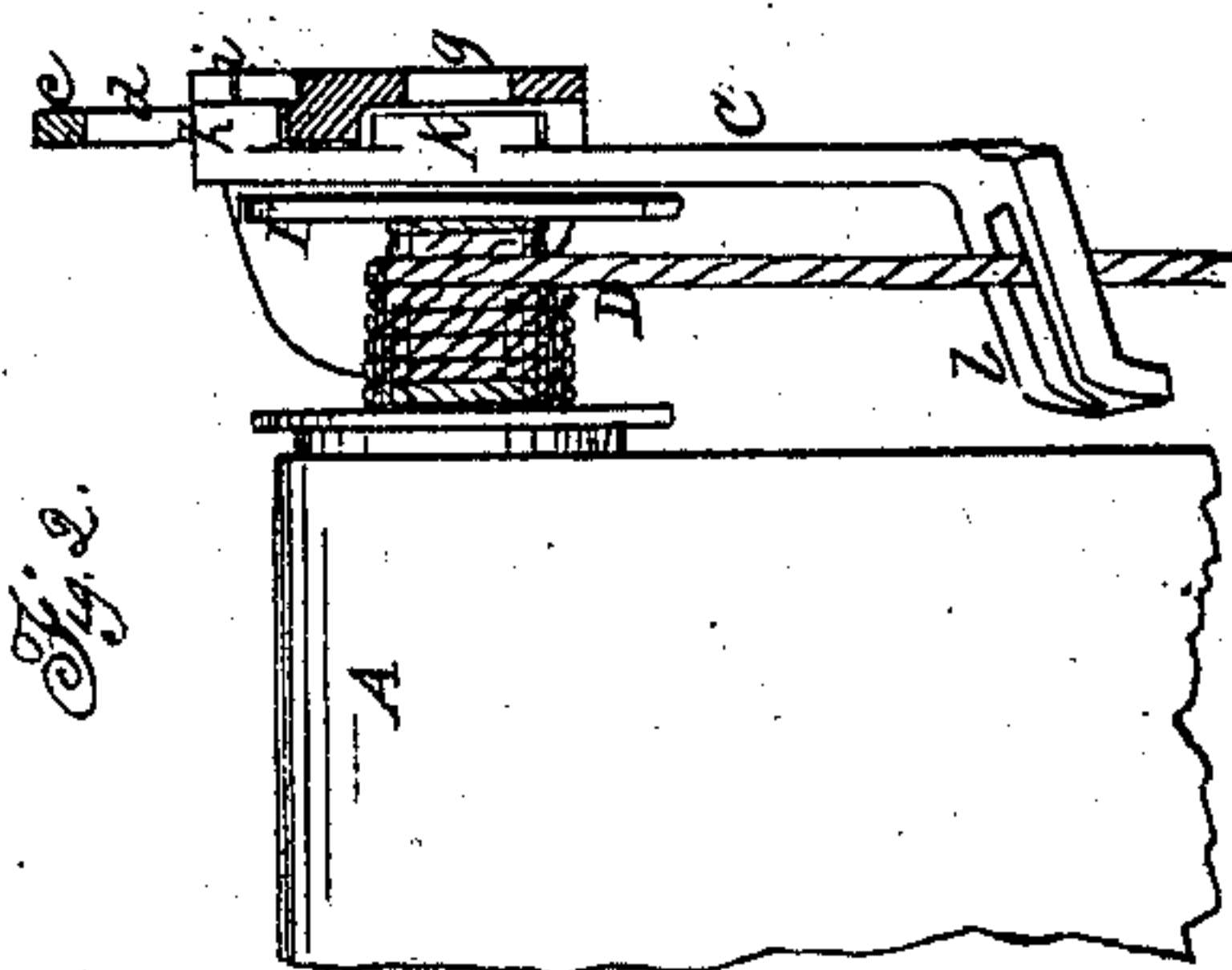
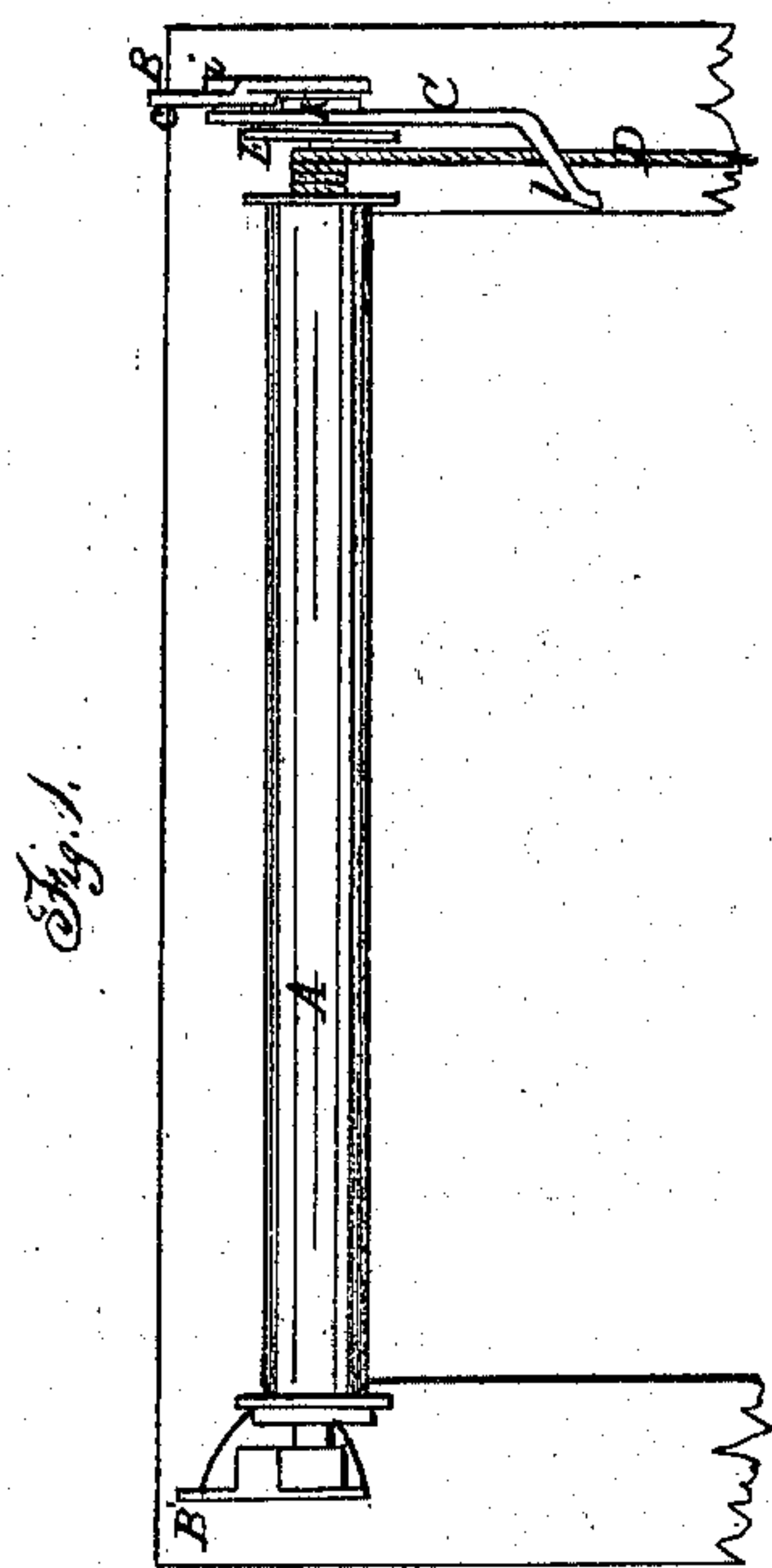
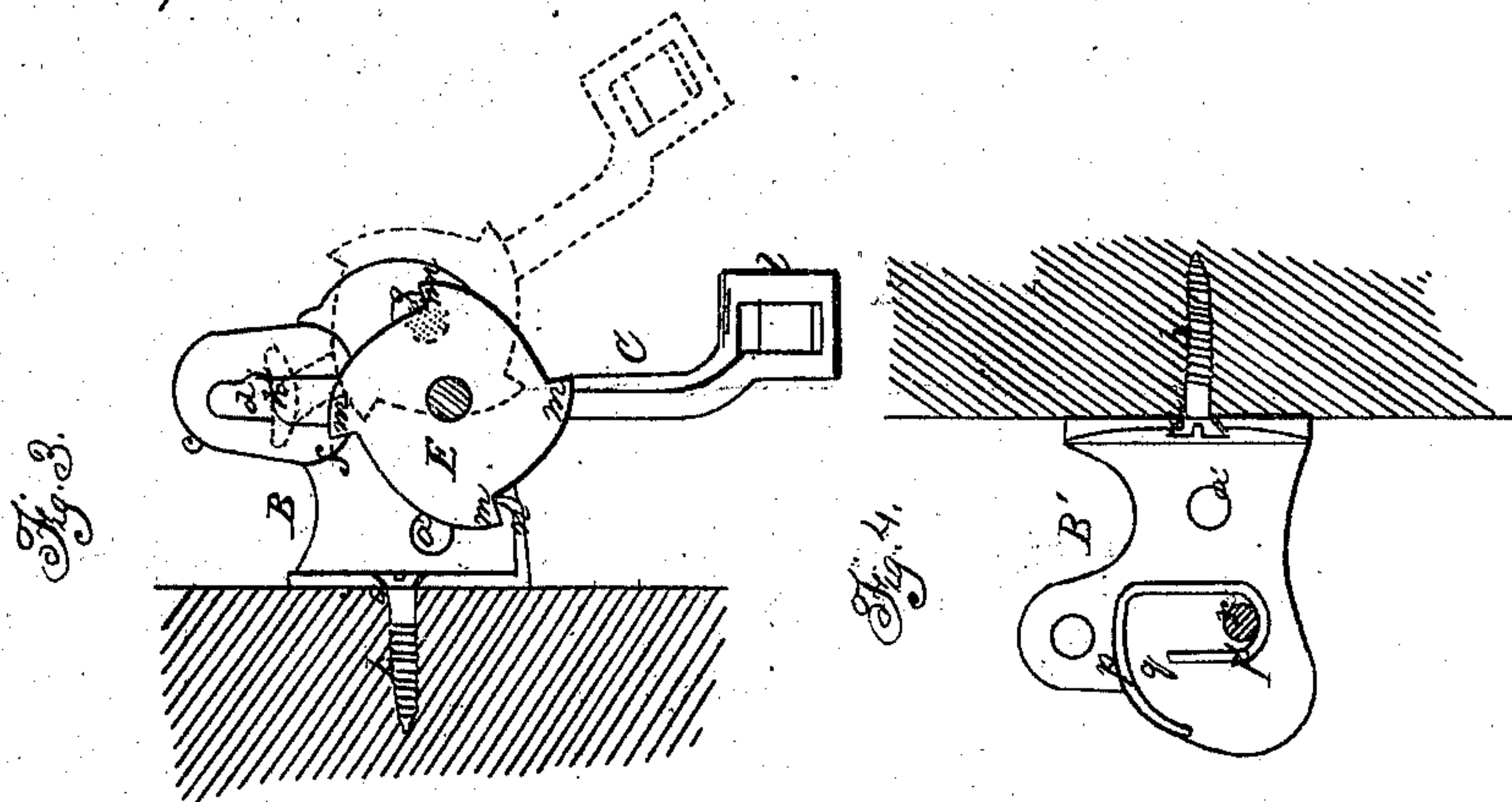


Jas. Chase, Curtain-Fixture.

Nº 75,860

Patented Mar. 24. 1868.



Witnesses

J. A. Davis
W. J. Creelman

Inventor

James Chase
By J. Fraser & Co.
Attys.

United States Patent Office.

JAMES CHASE, OF ROCHESTER, NEW YORK.

Letters Patent No. 75,860, dated March 24, 1868.

IMPROVED CURTAIN-FIXTURE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JAMES CHASE, of Rochester, in the county of Monroe, and State of New York, have invented a certain new and useful Improvement in Curtain-Fixtures; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

Figure 1 is an elevation of the arrangement as applied to the sash.

Figure 2, a view in the same position, with the bearing of the right-hand fixture in section.

Figure 3, a side elevation of the right-hand fixture.

Figure 4, a similar elevation of the left-hand fixture.

Like letters of reference indicate corresponding parts in all the figures.

The object of my invention is to so construct and arrange the parts composing the fixture that no fitting or manipulation is required after casting or cleaning, but the parts fit easily and accurately together; the right-hand fixture being so arranged that the simple drawing out of the curtain-roller, by the operating-cord, will allow the curtain to fall, and the left-hand fixture being so arranged as to retain the journal of the curtain-rod in place under all circumstances.

In the drawings, A represents the curtain-roller, and B B' the bearings or castings in which the journals rest. These bearings are each provided with an open bevelled slot, *a*, for the attachment to the sash, by means of screw *b* fitting therein, and also with a screw-hole, *a'*, at right angles to *a*, for the purpose of attaching to the casing when desired. The right-hand bearing B has an extension, *c*, with an open slot, *d*, and a concentric shoulder, *f*, as clearly shown in figs. 2 and 3. It also has a concentric slot, *g*. In the slot *d* rests the bearing *h* of a lever, C, the same being retained in place by a bit, *i*, which projects through and turns past the slot. This lever is also provided with a bearing, *k*, in which rests the journal of the curtain-roller, which said journal may project through so as to strike into concentric slot *g* to gauge the outward throw of the curtain-roller. The bearing *k* also fits under the shoulder *f*, which keeps it from rising when in action. The lower end of lever C has a loop, *l*, through which runs the operating-cord D that winds on the curtain-roller. To the right-hand end of the curtain-rod is rigidly attached a wheel, E, provided with ratchet-teeth *m*, which engages with a projecting detent, *n*, of the casting B, as clearly shown in fig. 3.

By this arrangement, it will be perceived that the curtain is held elevated at any position by the catching of the ratchet-wheel on the detent, and it is released at any time by simply drawing the cord out, thereby disengaging the ratchet-wheel, as indicated by the red lines, fig. 3.

This method is far superior to that where the ratchet-wheel is fixed in position, and a pawl is thrown out of gear to release the curtain, inasmuch as in my case the whole weight of the curtain and its roller acts by gravity to throw back again into engagement the moment the cord is released, while in the other case the swinging pawl is so light in weight as to make it very uncertain in its action, and it is found almost impossible to stop the curtain at the desired position. If the pawl is weighted to produce the desired effect, the cost is increased, and the device becomes awkward and cumbersome. By thus taking advantage of the weight of the roller and curtain to produce the desired quickness of movement, I make the cost very small, and do not encumber the apparatus at all. This is a very great advantage.

In addition to this special feature of the throwing out of the curtain-roller to disengage it, the construction of the bearing B and lever C, and their connection, present some features of advantage, viz, the two slots *a a'* enable the bearing to be attached to either the front sash or the side casing. The extension *c* furnishes both the eye or slot *d* for the connection of the lever, and the concentric shoulder *f* to hold said lever down in action; and the lever C, formed with the bit *i* and bearing *k*, is specially adapted to the above construction of the casting. These parts thus formed, fit accurately together after casting and "rattling," without fitting or manipulation—an effect, so far as I am aware, entirely new. By this means, the parts are connected, and the end of the curtain-rod applied in a moment's time, and without any trouble.

The only feature of peculiarity in the left-hand bearing B' (except the slots *a a'*, as before described,) is the employment of a projecting flange on the inside, consisting of a roof or covering, *p*, and socket *p'*, with

passage *g* between for the entrance of the journal *r*. When this journal is in place, it is retained against displacement by reason of the scroll-like form of the flange, which will not allow its escape. At the same time, the application and removal, when desired, are perfectly free and easy. This arrangement has a special connection with the right-hand bearing, inasmuch as it allows that end to be first connected, when the left-hand end may also be connected at once.

I am aware that a pivoted pawl has been so connected with a fixed ratchet-wheel as to be thrown out of engagement by means of a cord, and thus release the curtain-roller, but such I do not claim.

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

Connecting the end of the curtain-roller with a swinging lever, *C*, so as to be thrown out bodily, and combining therewith the ratchet-wheel *E* and detent *n*, in such a manner that the weight of the roller and curtain themselves serves to re-engage the parts when thus thrown out, substantially as herein set forth.

I also claim adapting the bearing *B* and lever *C*, without fitting, by means of the extension *e*, with slot *d* and shoulder *f* of the former, and the bit *i* and bearing *k* of the latter, the whole arranged and operating in the manner and for the purpose herein set forth.

I also claim the scroll-flange *p p'* of bearing *B'*, arranged as described, and operating in the manner and for the purpose set forth.

In witness whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

JAMES CHASE.

Witnesses:

R. F. OSGOOD,

J. A. DAVIS.