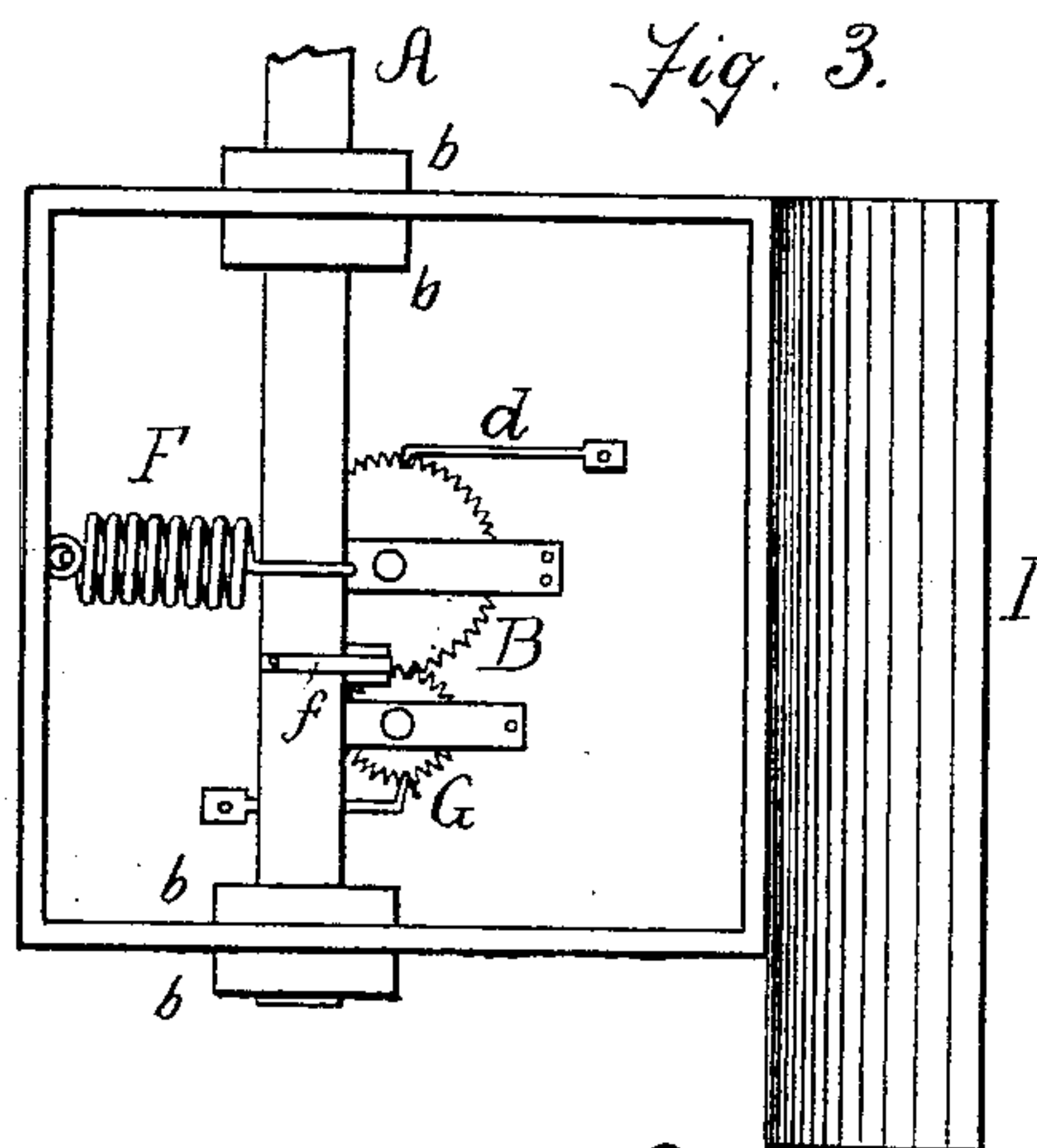
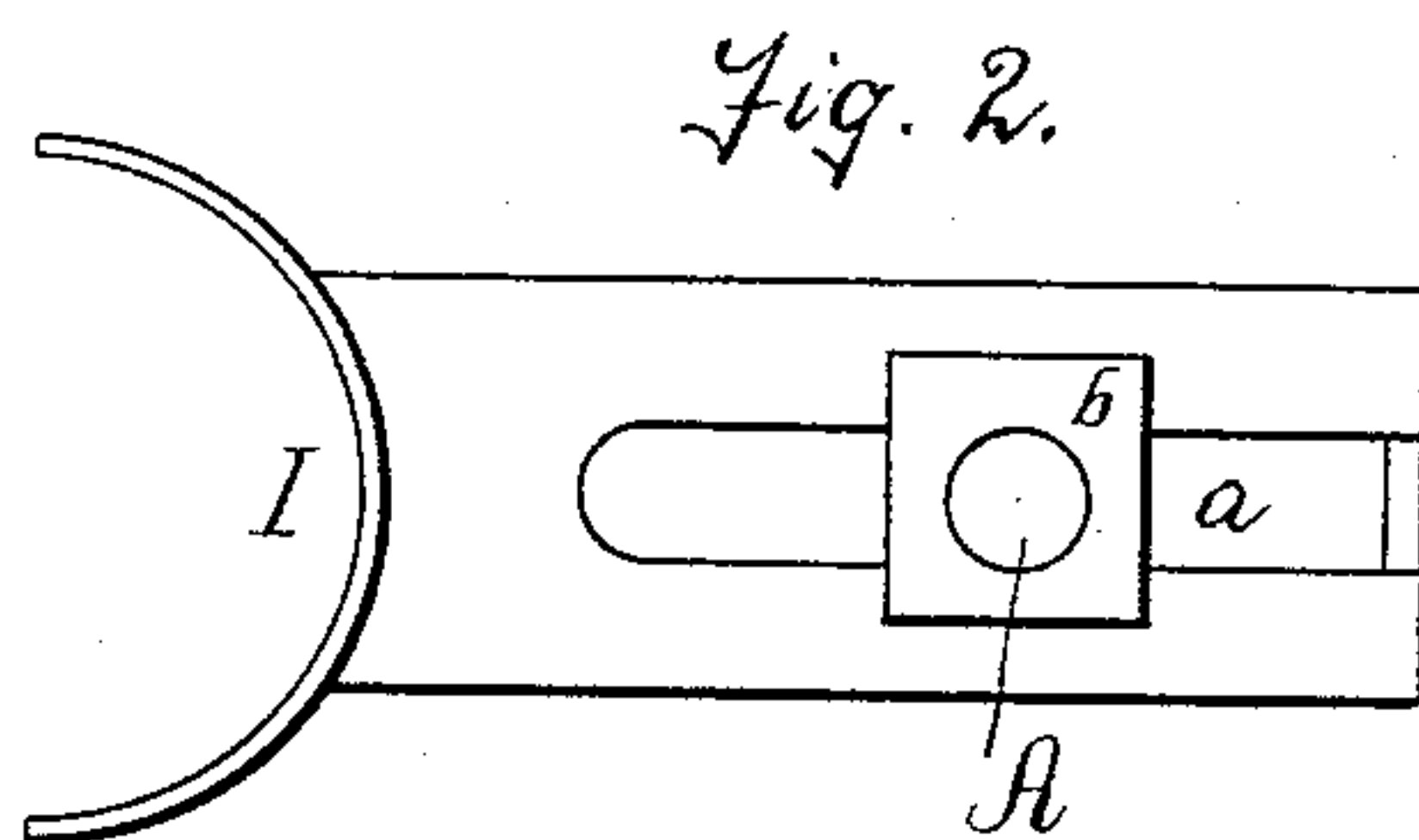
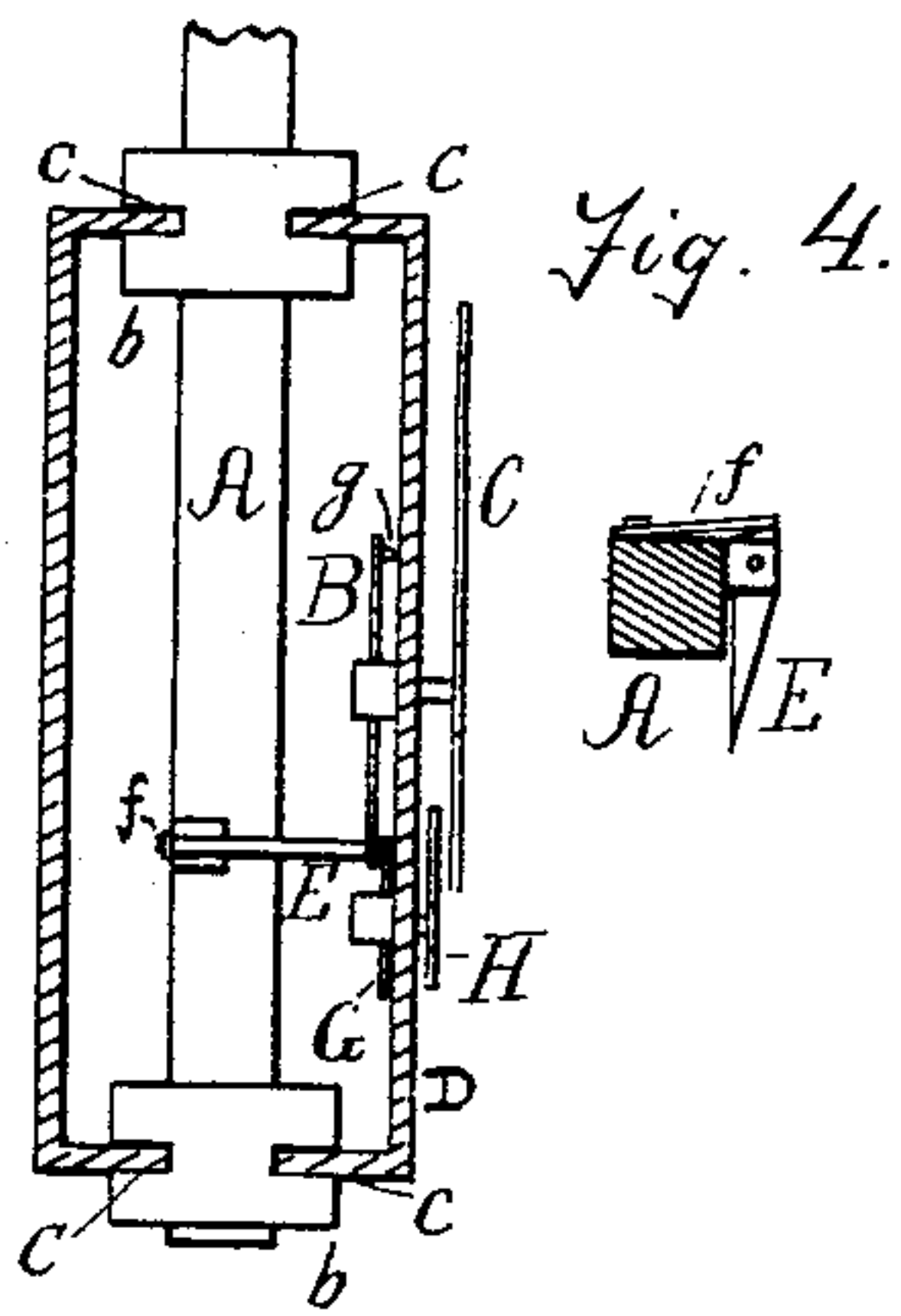
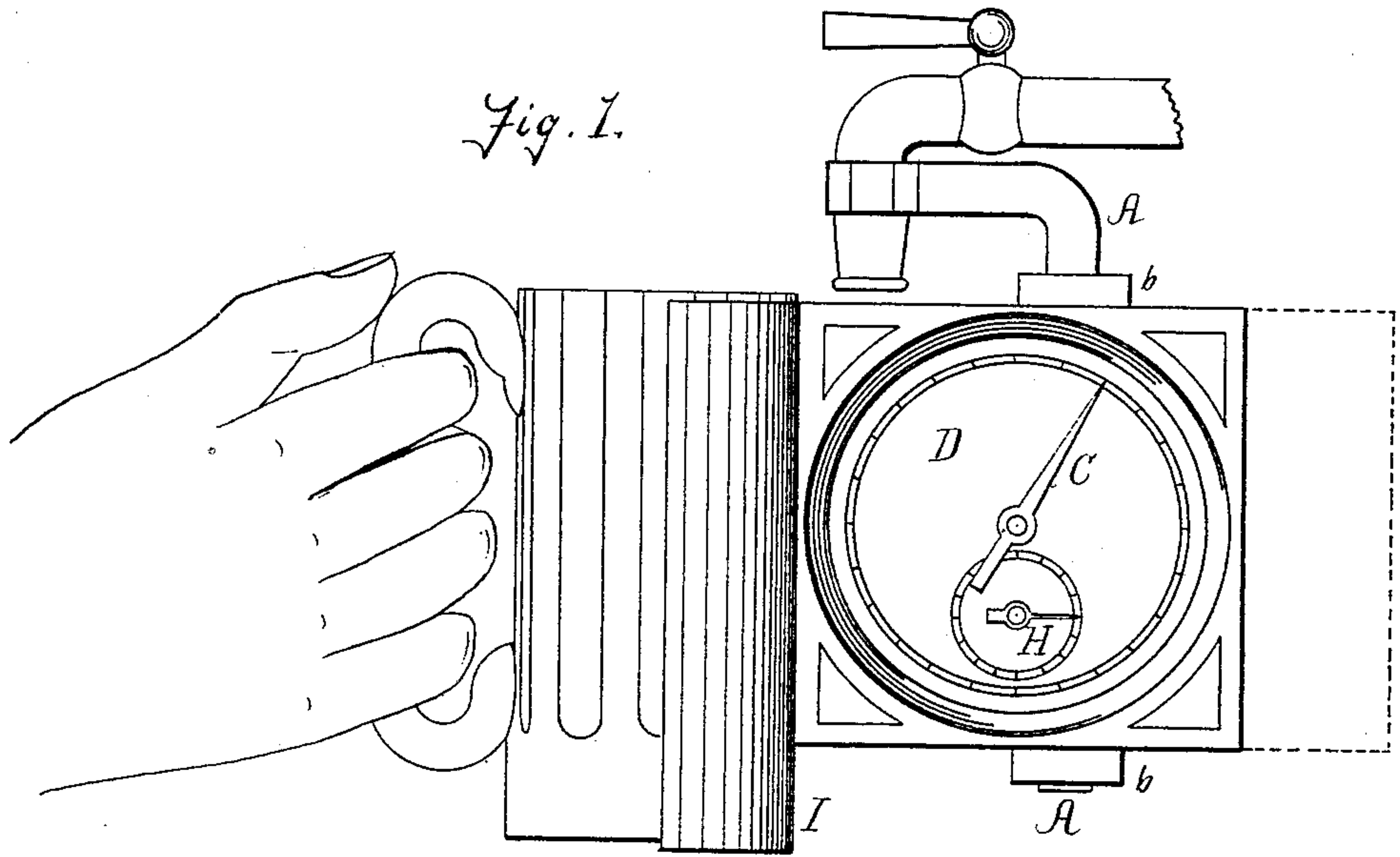


(No Model.)

J. WERREK & W. F. SMITH.  
REGISTER ATTACHMENT FOR FAUCETS.

No. 391,288.

Patented Oct. 16, 1888.



Witnesses.

*Edward J. Cannon.*

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# UNITED STATES PATENT OFFICE.

JAMES WERREK, AND WILLIAM F. SMITH, OF ST. PAUL, MINNESOTA.

## REGISTER ATTACHMENT FOR FAUCETS.

SPECIFICATION forming part of Letters Patent No. 391,288, dated October 16, 1888.

Application filed January 9, 1888. Serial No. 260,264. (No model.)

*To all whom it may concern:*

Be it known that we, JAMES WERREK and WILLIAM F. SMITH, citizens of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented certain new and useful Improvements in Register Attachment for Faucets; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention consists in a registering apparatus intended, primarily, as an attachment for the faucets of beer-kegs for the purpose of indicating the number of glasses drawn from the contents of the keg; but it may also be used as an attachment for the faucets of other receptacles for liquors, and the like, in connection with a measuring-vessel of a form and size to correspond with the construction of the apparatus in each particular instance.

The apparatus consists, in general, of a rod or bar firmly attached to the faucet, upon which rod or bar the register is normally held under the mouth of the faucet in such a manner that a glass or other receptacle cannot be introduced underneath the faucet for the purpose of filling it until the register is moved from its position, which movement, by means of a suitable ratchet-and-pawl device, causes a hand upon the register-dial to move forward one degree upon the scale, and when the glass or other receptacle is removed the register returns to its former position under the mouth of the faucet.

The invention consists, further, in the guard attached to the front of the apparatus, by means of which no other vessel or receptacle than of a particular size and shape can be introduced to receive the contents of the cask to which the faucet is attached.

The particular features of the invention will be more fully described by reference to the accompanying drawings, in which—

Figure 1 is a side view of the apparatus shown as attached to a faucet. Fig. 2 is an under side view of the same. Fig. 3 is a view of the interior mechanism, and Fig. 4 is a cross-section on a line 4 4 of Fig. 3.

Like letters designate corresponding parts in all of the figures.

A is a rod or bar rigidly attached to the faucet and extending downwardly therefrom at a distance in the rear of the mouth of the faucet a little more than one-half of the width of the register-box; or, for convenience of attachment, the bar may be attached near the mouth of the faucet and extend rearwardly the proper distance, where it is bent at right angles and extends downwardly. To the downwardly-extending portion the register-box is attached. The bar A extends through elongated slots *a a*, formed in the top and bottom sides of the box or frame and extending longitudinally therein, and at each of these points the bar is enlarged, as shown at *b b*, so as to be somewhat wider than the slots. In the opposite sides of each of these enlargements are formed grooves *c c*, into which the edges of the frame formed by the slots extend, and in which they fit so as to slide freely backward and forward.

Within the frame-work of the register-box and mounted upon a bracket attached to the inside of the dial-plate, or in any other suitable manner, is a ratchet-wheel, B, carrying upon the outer end of its shaft the indicator-hand C in front of the dial D. Attached to the arm A inside the frame and opposite the lower edge of the ratchet-wheel B is a spring-pawl, E, in such a position that it will engage the lower tooth of the ratchet when the frame is caused to slide in the grooves *c c*, formed on the bar A, causing the same to rotate a distance of one notch on the ratchet. A detent-pawl, *d*, engaging with the teeth of the ratchet prevents the same from turning more than one notch and holds the ratchet firmly in position to await the next backward movement of the ratchet.

The frame-work or register-box is held normally upon the bar A in such a position that it projects far enough beyond the mouth of the faucet to prevent the introduction of any vessel underneath the same by means of a coiled-wire spring, F, attached at one end to the bar A within the box and at its opposite end to one side of the box.

The operation of the apparatus as thus far described is as follows: When the apparatus is in its normal position, the pawl E, carried



by arm A, is held just in the rear of the lower tooth of the ratchet B. When it is desired to introduce a glass or other receptacle underneath the mouth of the faucet, the frame or box carrying the operating mechanism is pushed back, the lower tooth of the ratchet is engaged by the pawl E and caused to rotate a distance of one notch, in which position it is retained by the detent *d*. The ratchet is carried by the movement of the box past the pawl, the position of the parts being closely adjusted, so that the ratchet-tooth is released from contact with the pawl after the ratchet has moved forward one notch, thus moving the hand C forward one degree on the dial-scale. When the pressure on the front of the box is released, the spring F brings the parts back to their former position, the pawl E being so arranged as to move aside in the return motion without moving the ratchet, while a light spring, *f*, returns the pawl into proper position to be engaged by the ratchet on its next backward movement.

In any convenient position with reference to the ratchet B a second similar wheel, G, is mounted, and is caused to rotate one notch with every complete revolution of the wheel B by means of a pin, *g*, upon the same, which engages with one tooth of the ratchet G, moving it forward one notch. A second hand, H, is carried by the shaft upon which the wheel G is mounted and moves over a graduated scale upon the dial, which hand thus registers one degree with each complete revolution of the hand C. If desired, other ratchets and hands may be connected with the ratchet G in a similar manner, thus increasing the registering capabilities of the apparatus to any desired extent.

As a means of protection against a larger quantity than is intended being drawn from the cask with one registering movement of the apparatus by the use of a larger receptacle, we attach to the front of the box or frame a guard, I, usually of semi-cylindrical form, its edges projecting outwardly beyond the mouth of the faucet when the guard is in its innermost position, and just large enough to admit the receptacle into which it is intended that the contents of the cask shall be drawn. As the invention is illustrated with reference to its primary object, we have shown the guard of semi-cylindrical form and of a size to admit a glass of the form and size commonly used in the sale of beer. The glass is placed against the guard and the register pushed back thereby, so as to bring the glass under the mouth of the faucet. The slots *a a* are so formed as not to allow the register to move backward far enough to bring the receptacle under the mouth of the faucet unless the same is of a size and form to enter closely within the guard. It therefore becomes impossible to draw the contents of the cask without registering the same, or to use any other receptacle larger than the one intended to be used. If, however, it should be sometimes desirable to draw a larger quantity of

the contents of the cask at one movement of the register, a receptacle may be provided of the required size to fit the guard and of sufficient depth to hold the required quantity.

By means of this invention a complete check may be had upon the actions of the person or persons in charge of the faucet. Neither can more glasses be sold than are accounted for, nor can a larger quantity be sold at one time than is desired by the employer. In addition to these features a record is kept of the contents of the cask, and any deficiency in measure may be easily detected.

The face of the register may be provided with a door or cover, which may be provided with a lock, in order that the record may be accessible only to the person having charge of the key.

We claim as our invention—

1. The combination, with a faucet, of an arm rigidly attached thereto, a registering device movable thereon in the direction of the length of the faucet, the said registering device adapted to be operated by each backward movement of the register-box upon the arm, substantially as and for the purpose herein specified.

2. The combination, with a faucet, of an arm rigidly attached thereto, a frame carrying registering mechanism movable back and forth thereon in the direction of the length of the faucet, and means for holding the said register normally under the mouth of the faucet, substantially as described, whereby a backward movement of the register-box is necessary in order to draw the contents of the cask to which the faucet is attached, and registering mechanism adapted to be operated by each backward movement of the register-box.

3. The combination, with a faucet, of an arm rigidly attached thereto and extending downwardly therefrom, a register-box movable back and forth on the said rod in the direction of the length of the faucet, the said box carrying ratchet-wheels and hands operated thereby, and means whereby the said ratchet-wheels are operated by each backward movement of the box upon the rod, substantially as and for the purpose herein specified.

4. The combination, with a faucet, of an arm rigidly attached thereto and extending vertically downward therefrom in the rear of the mouth of the faucet, a register-box attached to the said arm and movable horizontally back and forth thereon by means of slots in the upper and lower sides of the frame of the box through which the said arm extends, grooves formed on the opposite sides of said arm and embracing the edges formed by the slots, a pawl attached to the arm within the box adapted to engage one tooth of the register-ratchet at each rearward movement of the box, and means whereby the box is held normally under the mouth of the faucet, substantially as and for the purpose herein specified.

5. The combination, with a faucet, of an arm rigidly secured thereto and extending



vertically downward therefrom in the rear of  
the mouth of the faucet, a register movable  
backward and forward upon the said arm in  
the direction of the length of the faucet by  
5 means of slots in the top and bottom sides of  
the said box containing the registering mech-  
anism, which registering mechanism is adapted  
to be operated by each backward movement  
of the box, means for holding the register-  
10 box under the mouth of the faucet, and a semi-  
cylindrical guard of the form of the receptacle  
into which the contents of the cask are to be  
drawn attached to the front of the box with

its edges projecting beyond the mouth of the  
faucet when the box is pushed to its back- 15  
ward limit, substantially as described, where-  
by a vessel of larger size than will enter within  
the guard cannot be introduced underneath  
the faucet.

In testimony whereof we affix our signatures 20  
in presence of two witnesses.

JAMES WERREK.

WILLIAM F. SMITH.

Witnesses:

S. G. S. ROBERTS,  
F. W. LANE.

Affidavit having been filed showing that the name of the first-mentioned patentee in Letters Patent No. 391,288, granted October 16, 1888, for an improvement in "Register Attachments for Faucets," should have been written and printed *James Werick*, instead of "James Werrek," it is hereby certified that the proper correction has been made in the files and records pertaining to the case in the Patent Office, and should be read in the Letters Patent that the same may conform thereto.

Signed, countersigned, and sealed this 22d day of January, A. D. 1889.

[SEAL.]

D. L. HAWKINS,  
*Assistant Secretary of the Interior.*

Countersigned:

BENTON J. HALL,  
*Commissioner of Patents.*