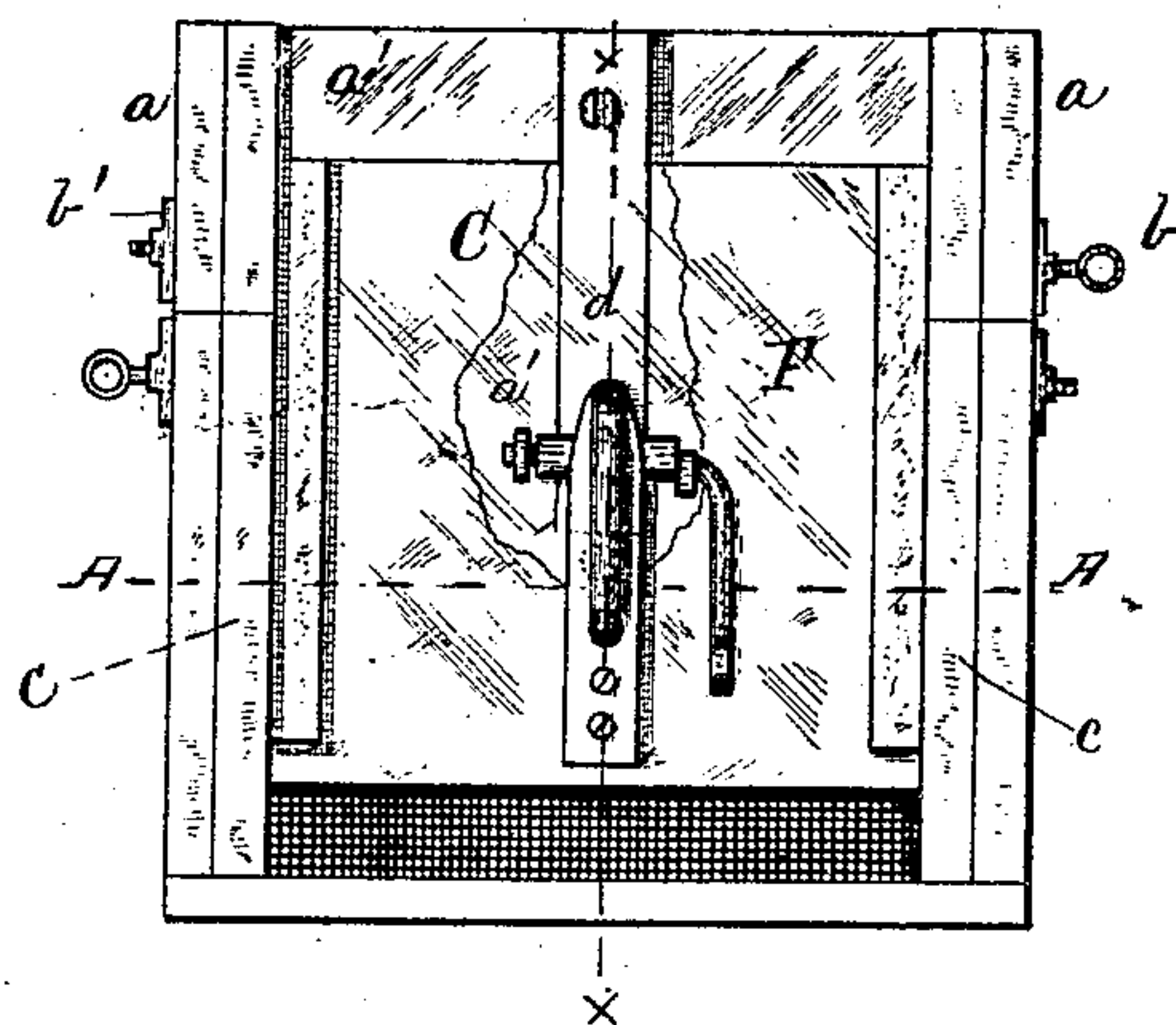


(No Model.)

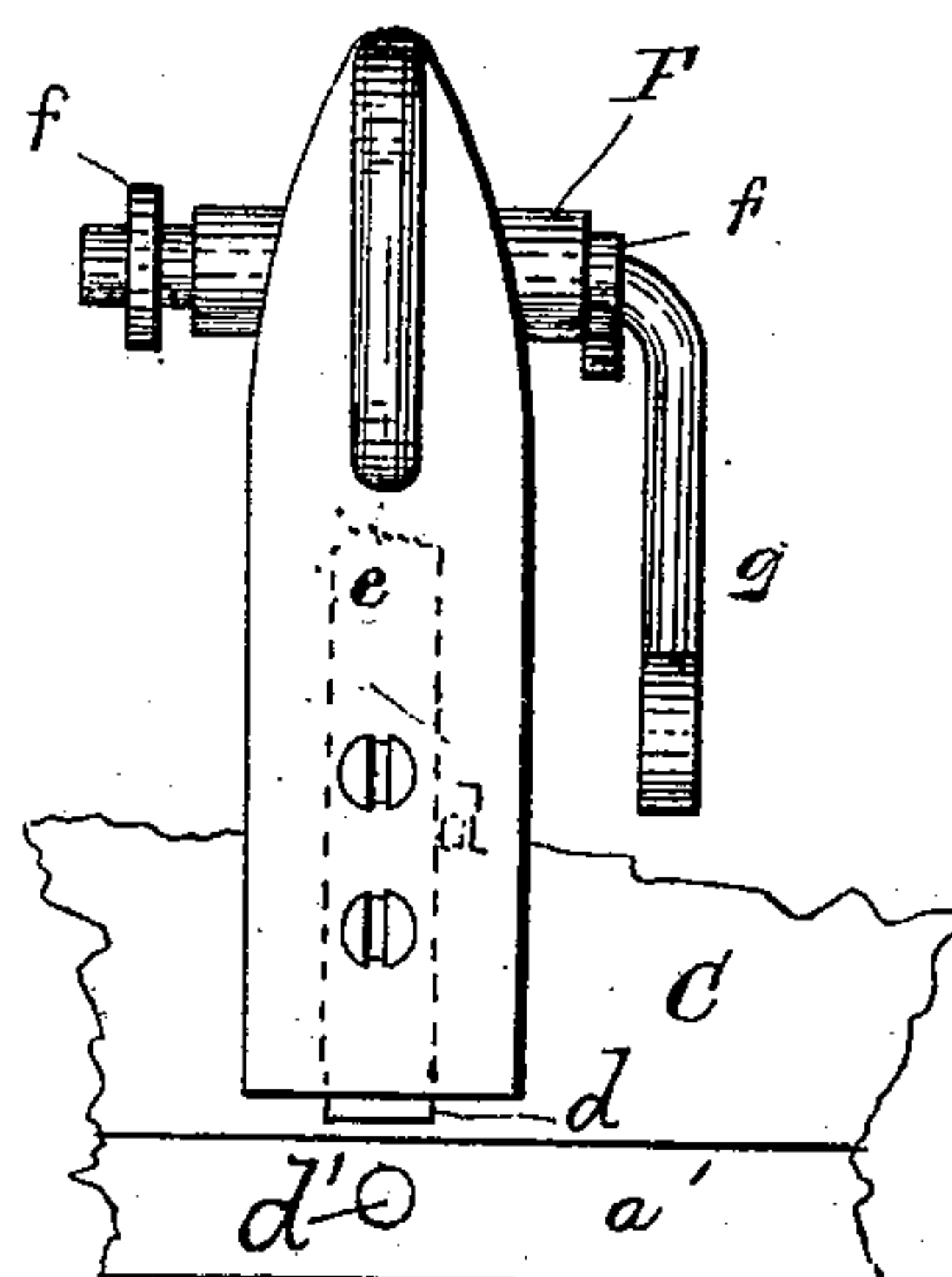
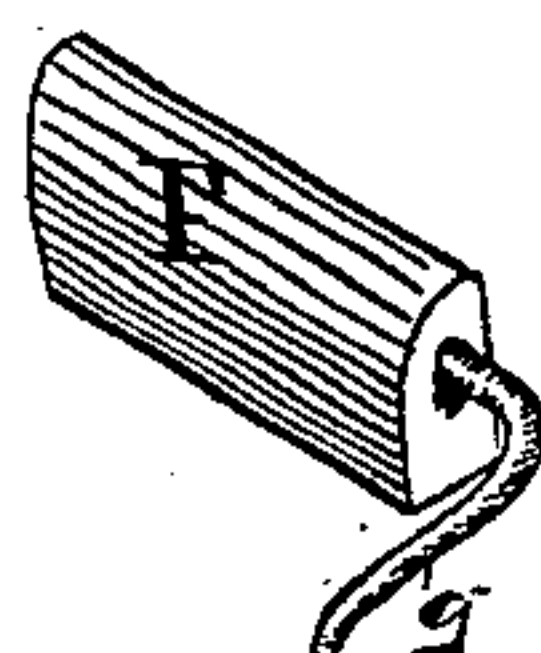
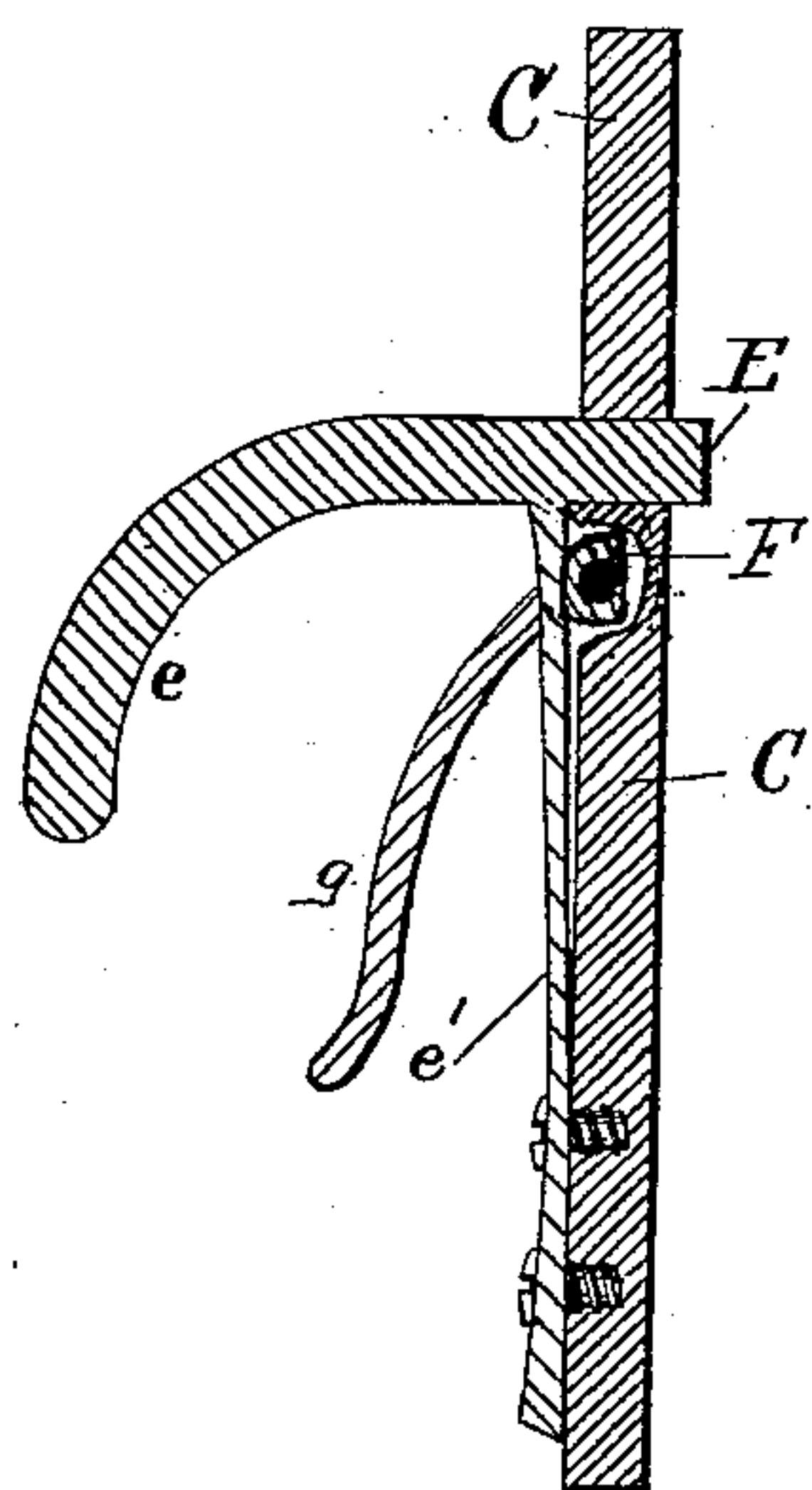
A. C. BADGLEY.
End Gate for Wagons.

No. 241,117.

Patented May 10, 1881.



— Fig - 1 —



— Fig-2 —

F : 9-3

— Fig - 4 —

- WITNESSES: -

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— INVENTOR —

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AARON C. BADGLEY, OF ASHKUM, ILLINOIS.

END-GATE FOR WAGONS.

SPECIFICATION forming part of Letters Patent No. 241,117, dated May 10, 1881.

Application filed January 31, 1881. (No model.)

To all whom it may concern:

Be it known that I, AARON C. BADGLEY, a citizen of the United States, residing in Ashkum, Iroquois county, and State of Illinois, have invented a new and useful End-Gate for Wagons, of which the following is a specification.

My invention relates to end-gates having a vertical sliding movement in suitable guides in the side-boards of a wagon; and the object of my invention is to provide means for locking the end-gate when down to close the end of the wagon-bed, and to maintain the same at any desired height when discharging a load from the wagon-bed, such an end-gate being particularly adapted for wagon-beds used in transporting grain, meal, &c., and which are provided with auxiliary side and end boards to increase the depth and capacity of the bed. I attain this object by devices illustrated in the accompanying drawings, in which—

Figure 1 is an end elevation of a wagon-bed provided with an end-gate embodying my invention, said end-gate having parts broken away and being slightly elevated above the bottom of the wagon-bed; Fig. 2, a vertical section of the end-gate on the line *xx* of Fig. 1; Fig. 3, a perspective of the cam and lever operating the spring-actuated locking-stud; and Fig. 4, a front elevation of my locking device, with section of end-board and end-gate, showing the stop-hole for the stop-bolt.

Similar letters of reference indicate the same parts in the several figures of the drawings.

A represents an ordinary wagon-bed, having mounted thereon auxiliary side-boards *a a* and end-board *a'*, said auxiliary side and end boards being secured in the usual manner by screw-threaded rods *b*, passing through the side-boards of the bed and through cleats upon the auxiliary end-board, and working in screw-threaded plates *b'* upon the side-boards proper of the bed. The auxiliary end-board *a'* is removed a sufficient distance from the end of the wagon-bed to enable a vertically-sliding gate, C, guided in L-cleats *c c* on the side-boards, to pass the same in its vertical movement. The end-gate *a'* extends downwardly to about half the depth of the wagon-bed proper, as indicated in dotted lines in Fig. 1, and is provided at its center of width with a vertical

metal strip, *d*, set in said end-board so that its face will be flush with the same, to form a bearing for a locking-stop upon the sliding end-gate.

Below the end of the metal strip *d*, and in the end-gate *a'*, is a perforation, *d'*, adapted to receive the locking-stop when the sliding gate is lowered to close the end of the bed.

E is the locking-stop, provided with a curved handle, *e*, and with a vertical spring-arm, *e'*, secured at its lower end by screws to the sliding gate, so as to force the stop *e* forward against the plate *d* and into the perforation *d'* of the end-board *a'*.

Sliding end-board C is recessed to receive a horizontally-operating cam, F, having its bearings in eyebolts or eye-screws *f f*, and provided with a handle, *g*, to operate it and press outwardly the spring *e'* to release the locking-stop from the perforation or vertical plate upon the end-board *a'*. As shown, the tension of the spring is sufficient to cause the locking-stop to bind against the plate *d*; but in some cases—as, for instance, if a very heavy sliding gate is used—the plate may be provided with a series of perforations to receive the stop, or the plate *d* entirely omitted and the perforations be made in the end-gate.

The purpose of having an end-gate so adjustable is to afford means for regulating the flow of grain, meal, &c., when unloading the same from the bed; but it will be understood that when the auxiliary side and end boards are removed the sliding end-board is equally adapted to be used, but not lock by my particular device in the bed proper.

The locking device may be operated by means of the handle *e* of the cam F, or by the handle *g* of the spring *e'*, as best suits the convenience of the operator, though the latter is preferable, and with the cam is intended for that purpose.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a wagon-bed, the combination, with a stationary end-board and with a vertically-sliding end-gate, of a spring-actuated stop upon said gate, engaging with the end-board and adapted to maintain the end-board at any desired height above the bed.

2. The combination, with the end-board and

with the vertically-sliding end-gate, of a spring-actuated stop adapted to connect said end board and gate, and a cam for operating said stop, as and for the purpose described.

- 5 3. The combination, with the end-board and sliding gate, of the stop E, having the handle *e* and spring *e'*, cast in one piece, and the cam

F, having handle *g*, substantially as and for the purpose described.

AARON C. BADGLEY.

Witnesses:

ROBERT W. TAYLOR,
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