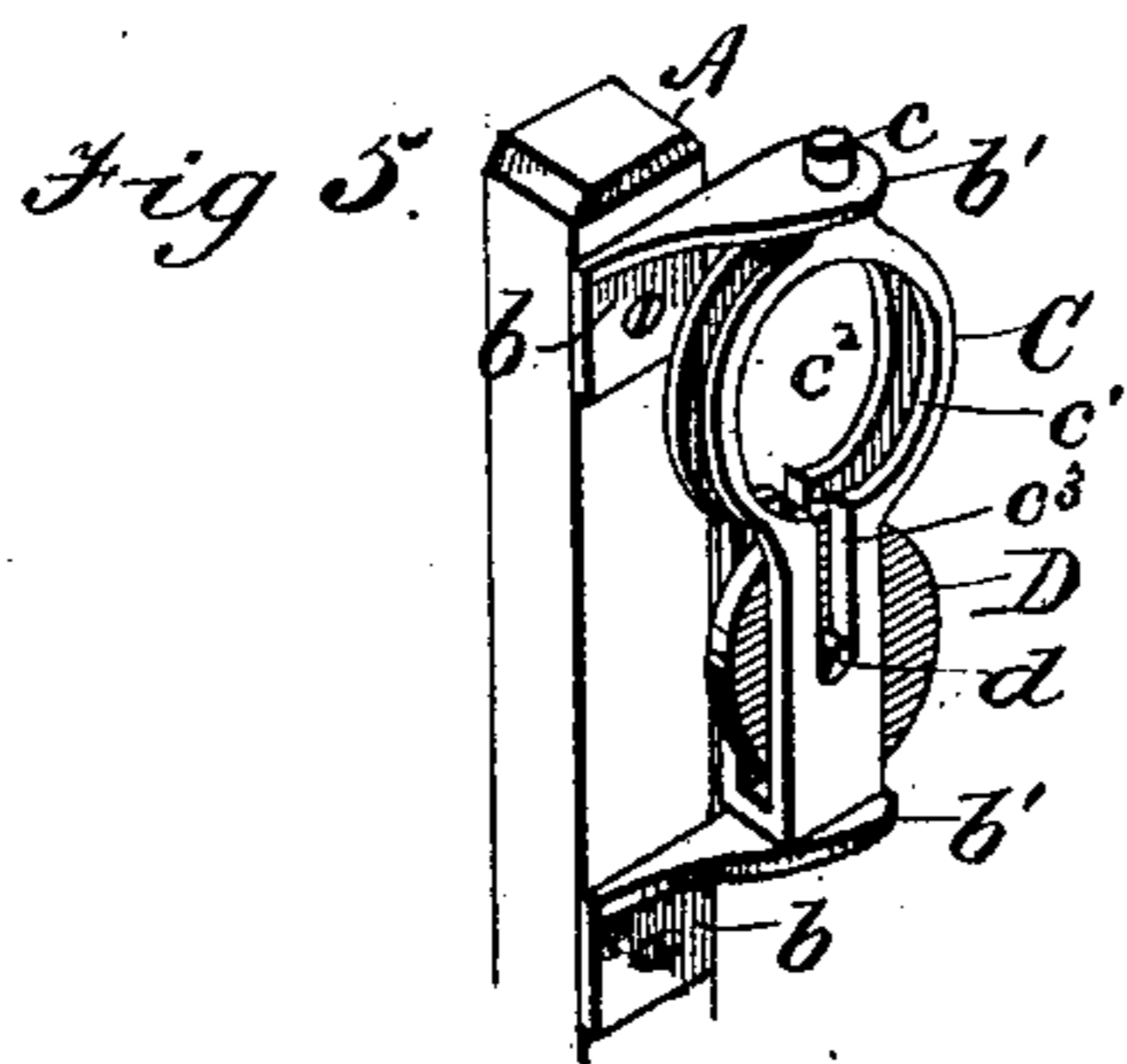
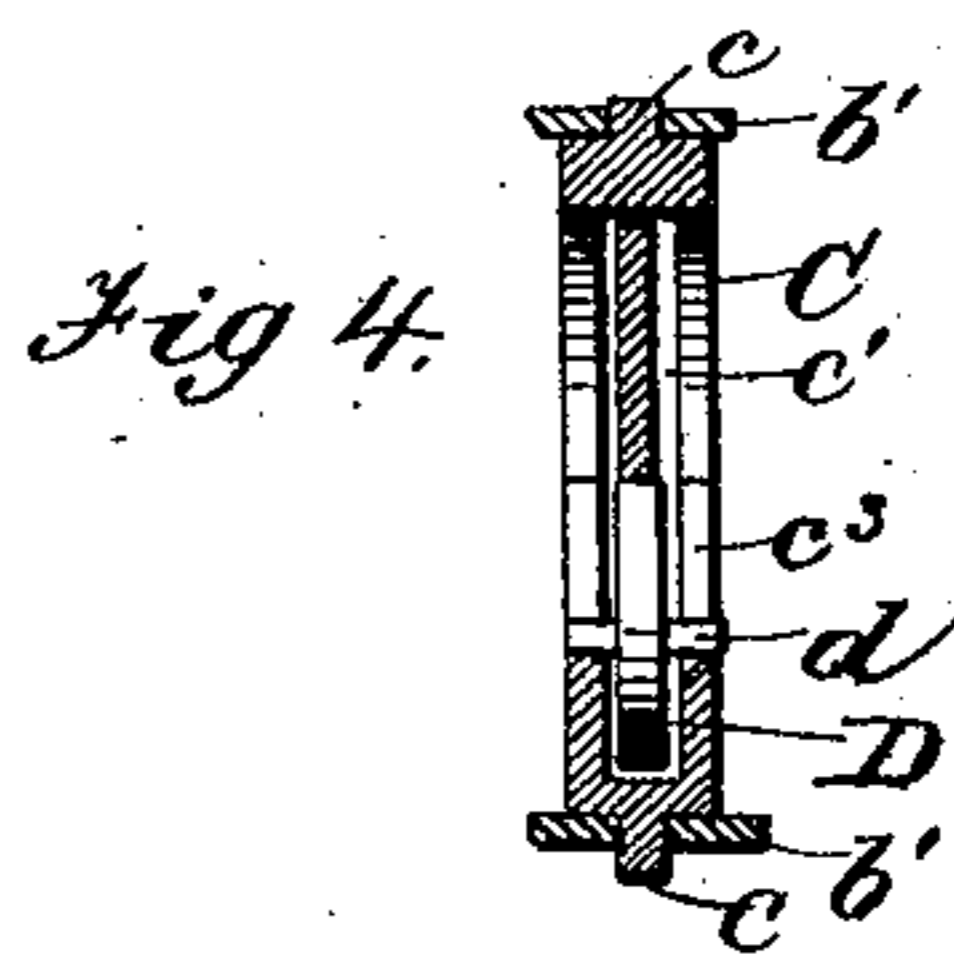
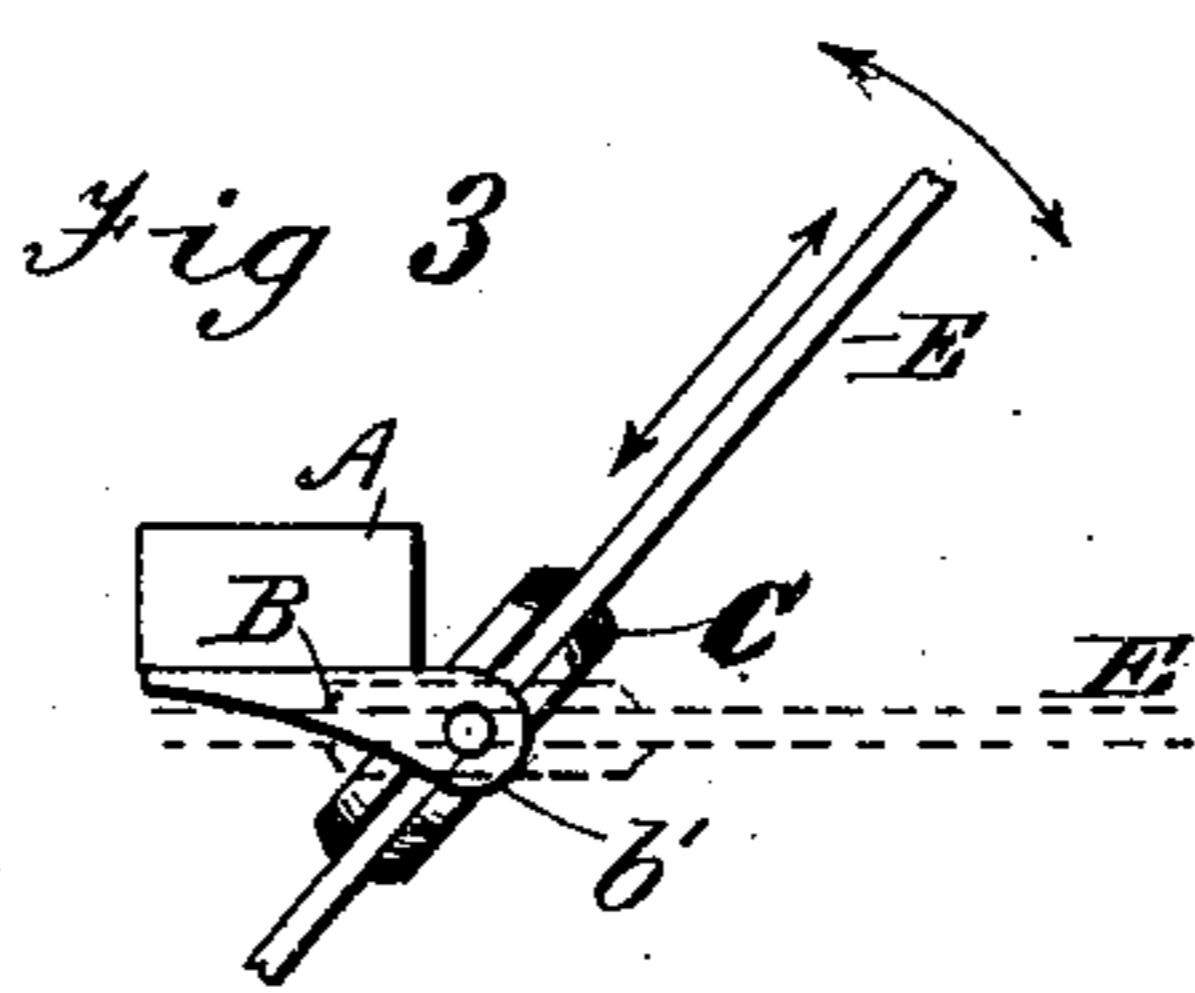
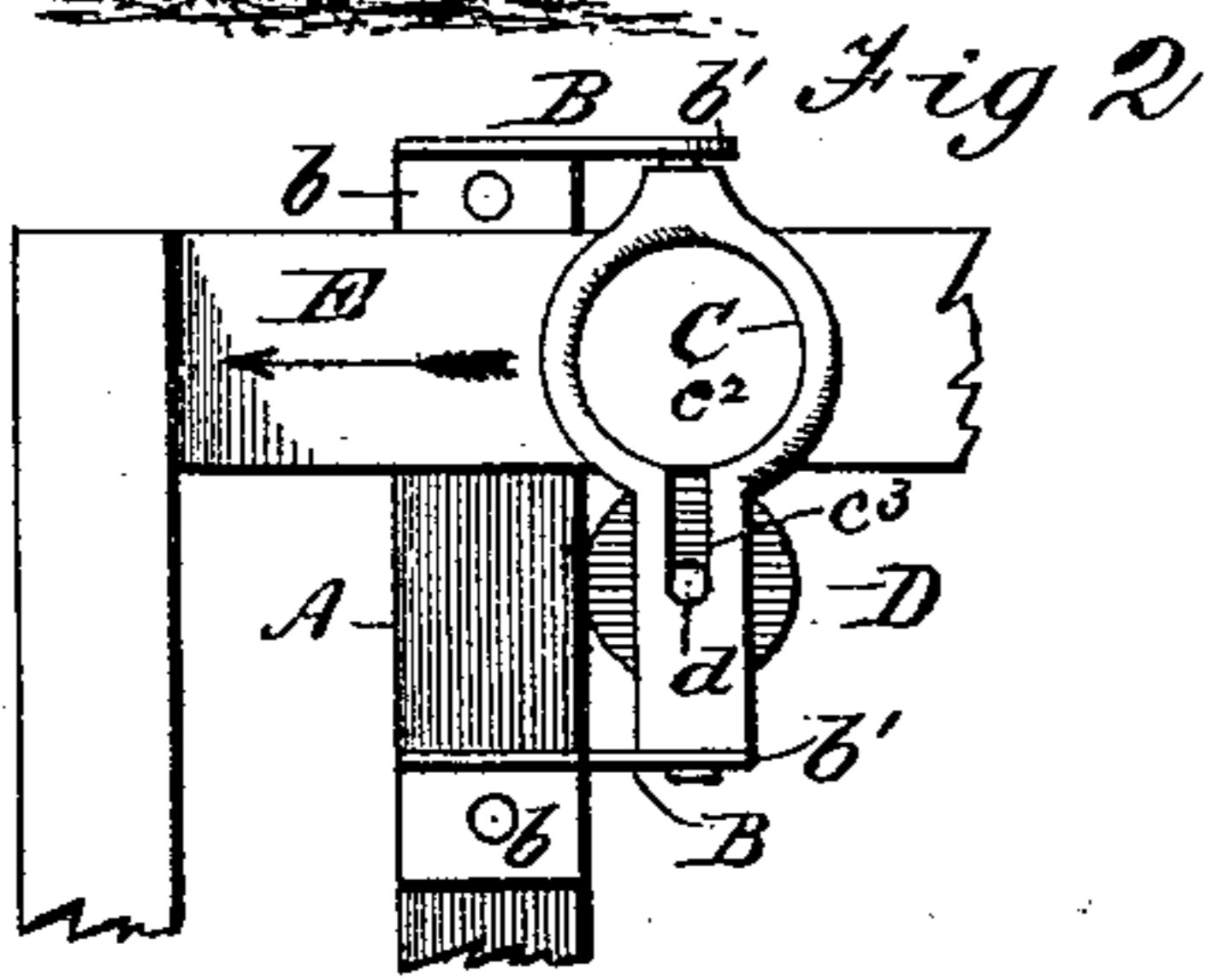
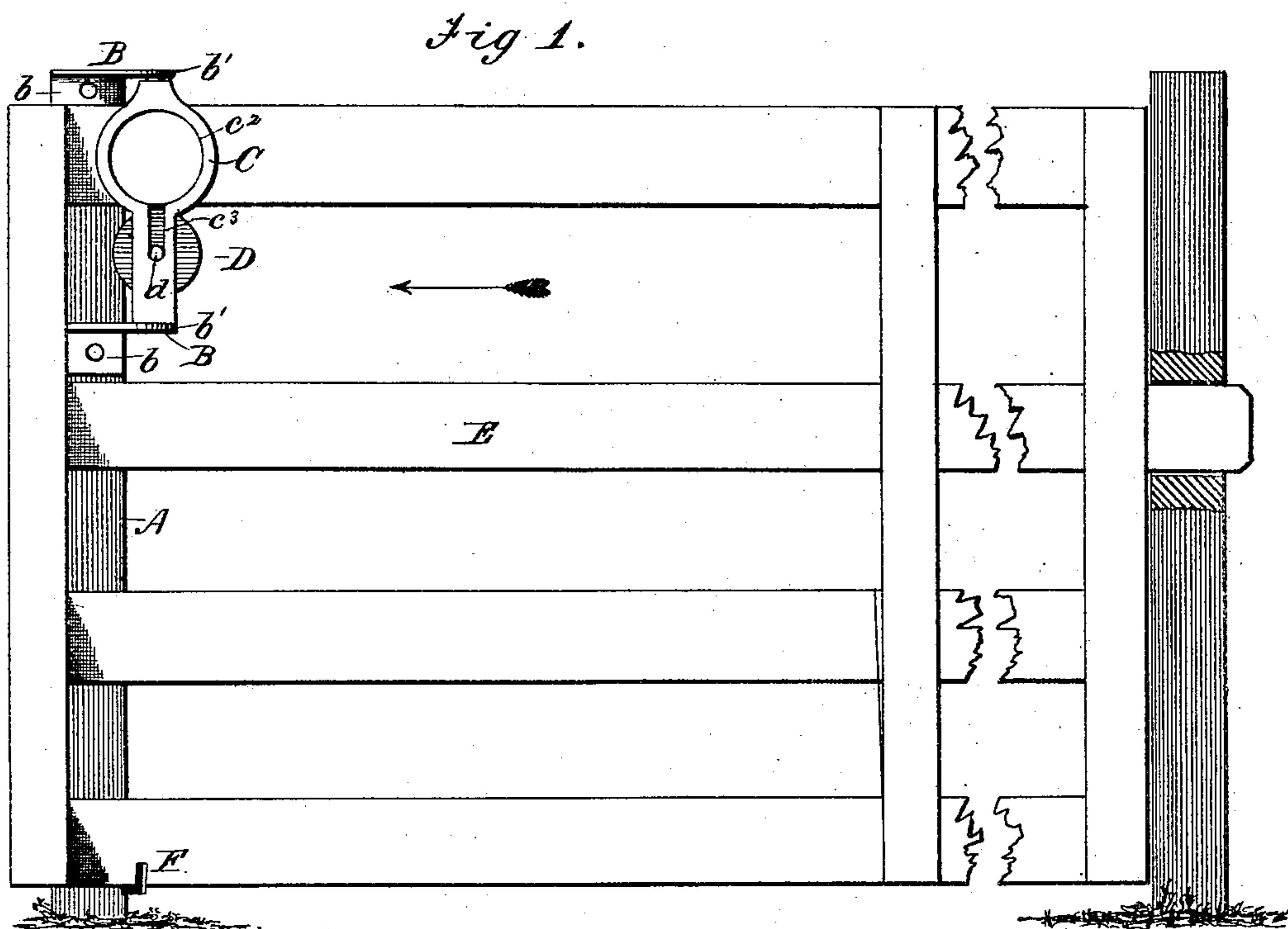


E. SHOPBELL.

HANGINGS FOR SLIDING AND SWINGING GATES.

No. 180,380.

Patented July 25, 1876.



Witnesses ;
Harry C. Clark.
M. C. Stallings.

Inventor.
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UNITED STATES PATENT OFFICE

ELIAS SHOPBELL, OF FLORIS, IOWA.

IMPROVEMENT IN HANGINGS FOR SLIDING AND SWINGING GATES.

Specification forming part of Letters Patent No. **180,380**, dated July 25, 1876; application filed May 1, 1876.

To all whom it may concern:

Be it known that I, ELIAS SHOPBELL, of Floris, in the county of Davis and State of Iowa, have invented a new and Improved Attachment for Farm-Gate; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention is an improved attachment or iron for that class of gates which are opened by sliding them back upon a proper bearing-surface in the gate-post until a balanced position is reached, and then swinging them round upon the bearing as a center, the special construction of which will be fully described hereinafter.

In the drawings, Figure 1 represents a side elevation of my invention as applied to a gate; Figs. 2, 3, 4, and 5, detached views of the parts in various positions.

To enable others skilled in the art to make and use my invention, I will now proceed to describe fully its construction and manner of operation.

A represents the gate-post, upon which the bearings supporting the gate are located. B represents brackets, constructed generally of any proper form and suitable material, but essentially provided with a main part, *b*, adapted to be securely attached to the gate-post, and an overhanging or projecting portion, *b'*, having suitable bearing-openings for the iron which revolves therein.

The projecting portion of the brackets, it will be observed, extends in a diagonal direction from the face of the post, so that its bearings are adapted to permit the iron held thereby to lie parallel to the face or side of the post, as may be desired.

C represents the swivel-iron, consisting of a casting provided at each end with bearing-studs *c*, adapted to rest in the bearing-openings in the brackets and properly turn therein, and having also a vertical slot, *c'*, cut through it in what may be termed its longitudinal direction, and a circular opening, *c''*, and a vertical slot, *c'''*, below it cut through in a transverse direction. D represents a bearing-wheel, the circumference of which is less than the inner circumference of the circular opening *c''*, which is provided with journals *d*, adapted to rest upon bearings at the bottom of the vertical slots *c'''*, as shown. E repre-

sents the gate, constructed generally in any proper manner, but having one of its bars adapted to be held in the slot *c'* and rest upon the bearing-wheel D, as shown. F represents a pin-hook, extending from the gate-post, near its lower end, which is adapted to properly guide the lower edge of gate in its movement.

The operation of the gate is similar to others of its class. It is opened by sliding it, first, in a longitudinal direction until a balanced position is reached, and then swinging it upon its bearing as a pivot.

It is closed, of course, by an opposite movement.

Some of the advantages of the described construction are as follows: By constructing the iron with the large circular opening and vertical slots, the bearing-wheel may be readily inserted in place, and be securely held there without the necessity of drilling journal-holes or inserting pins. The extended bearing-surface also furnished by this form of casting serves to hold the gate-bar always in line with the bearing-wheel, so that the tendency to cramp or pinch, when the gate is longitudinally moved, is avoided.

The attachment as a whole is exceedingly simple in its construction, it being complete and ready for use when cast without drilling or finishing of any kind, so that, of course, it can be made at a small cost.

It is very effective in its operation, and not liable to get out of order.

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

1. In combination with the bracket B, a swivel-iron, having the side openings *c''*, slots *c'*, and a removable roller, whose diameter is less than the diameter of said side openings, as and for the purpose specified.

2. The longitudinally-slotted swivel-iron C *c'*, provided with a roller, in combination with a gate-bar, the latter being inclosed by the swivel-iron, and guided in its movement over the roller, as described.

This specification signed and witnessed this 20th day of April, 1876.

ELIAS SHOPBELL.

Witnesses:

J. S. M. SMITH,
A. H. BOX.