

G. A. FARLEY.
LIFTING ROD HOLDER.
APPLICATION FILED SEPT. 20, 1907.

920,042.

Patented Apr. 27, 1909.

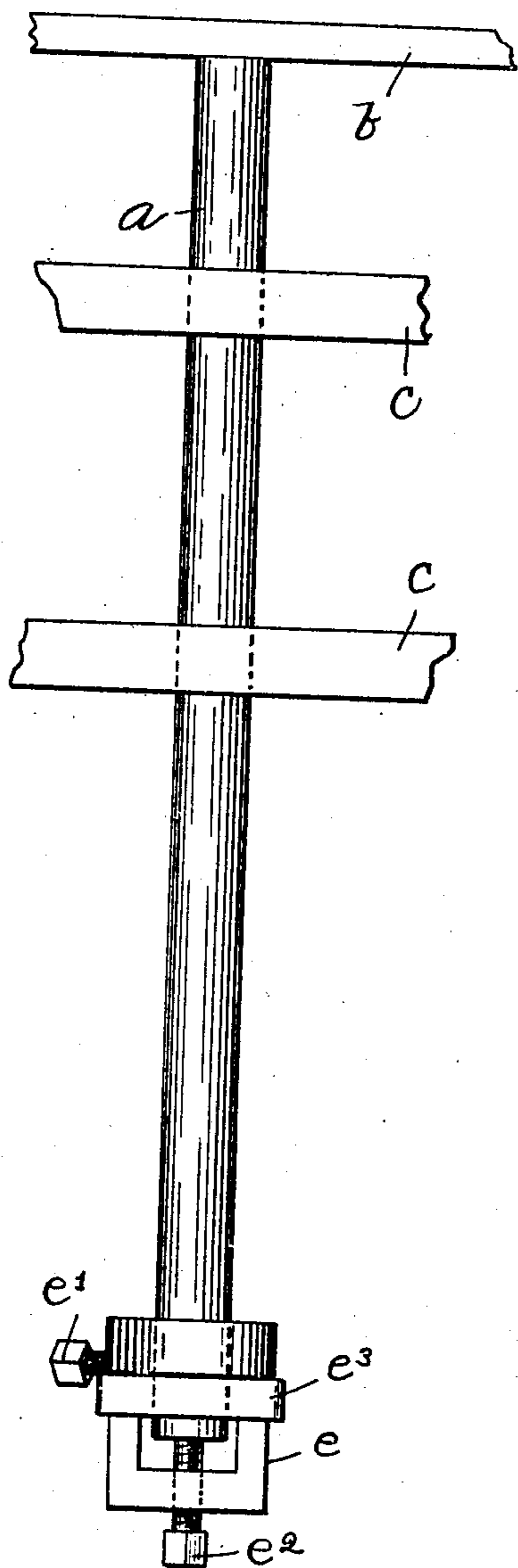


Fig. 1.

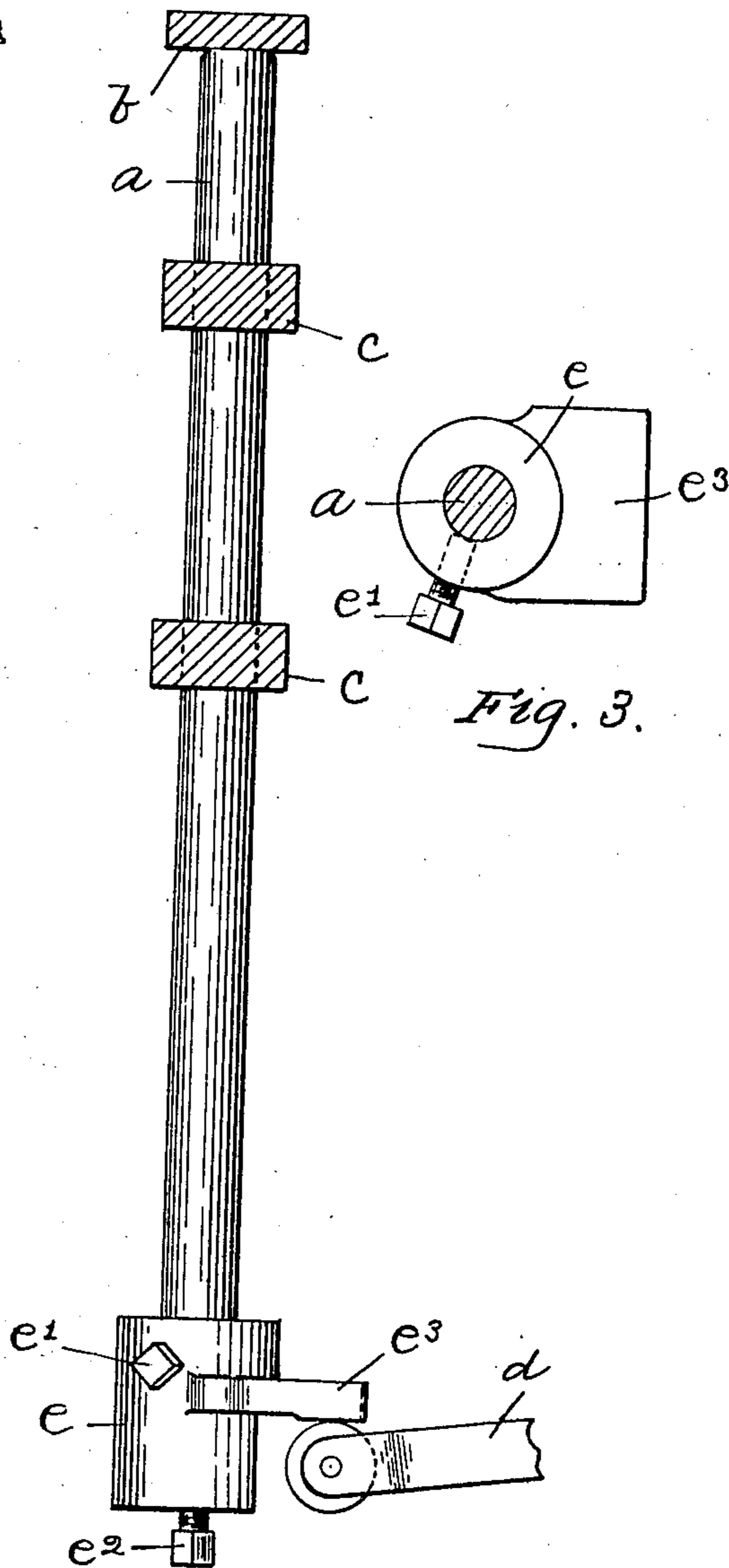


Fig. 2.

Witnesses:
H. B. Davis.
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UNITED STATES PATENT OFFICE.

GEORGE A. FARLEY, OF LAWRENCE, MASSACHUSETTS, ASSIGNOR TO DANIEL J. O'MAHONEY.

LIFTING-ROD HOLDER.

No. 920,042.

Specification of Letters Patent.

Patented April 27, 1909.

Application filed September 20, 1907. Serial No. 393,771.

To all whom it may concern:

Be it known that I, GEORGE A. FARLEY, of Lawrence, county of Essex, State of Massachusetts, have invented an Improvement in Lifting-Rod Holders, of which the following description, in connection with the accompanying drawings, is a specification, like characters on the drawings representing like parts.

10 This invention relates to lifting-rods which are employed for raising the lifting-plate or ring-rail of a twister, and particularly to the construction of the feet on said rods.

15 The feet employed at the present time, so far as I am aware, consist of an adjustable clamping-ring which is adapted to receive and hold the rod. To adjust the rod longitudinally the clamping-ring is loosened and the rod reset by hand and then while the rod is thus held the clamping-ring is tightened. Much difficulty is experienced in thus adjusting the rod and accurate adjustment is practically impossible. The strain on the rod when in use is in the direction of its length and therefore there is a constant tendency for the rod to become loosened in the clamping-ring which embraces it and in case it becomes loosened it falls down through the ring.

20 This invention has for its object to construct an improved form of foot for the lifting-rod, whereby means are provided for resisting the longitudinal strain on the rod incident to its repeatedly rising and lifting the ring-rail or lifting-plate; and for adjusting said rod longitudinally, and for preventing said rod from falling down through the foot in case it should become loosened therein.

25 Figure 1 is a front elevation of a lifting-rod holder embodying my invention, applied to a lifting-rod. Fig. 2 is a side view of the same, and Fig. 3 is a plan view of the same.

30 *a* represents the lifting-rod, *b* the lifting-plate or ring-rail, *c*, *c* the guide-plates for the lifting-rod and *d* the actuating-arm for the lifting-rod which engages a slip on the foot on the lifting rod. These parts are all of any usual or suitable construction.

35 The foot consists of a block *e* having a socket at the top shaped to receive the lower end portion of the rod. Through the side

40 wall of the socket a set-screw *e'* extends which engages the side of the lifting-rod and acts to hold it in place. Up through the bottom wall of the socket an adjusting-screw *e''* extends which engages the lower end of the rod. By turning this adjusting-screw the rod may be adjusted longitudinally in the holder easily, quickly and accurately. Said adjusting screw *e''* serves as an adjustable end-support for the rod which not only provides for adjusting the rod longitudinally but also resists the longitudinal strain on the rod due to its repeatedly rising to lift the ring-rail or lifting-plate. In case either screw should work loose the rod will be held from falling by the other screw and in case both screws should work loose the rod will fall only until it strikes the bottom wall of the socket in the block.

45 *e'''* represents a lip on the foot which is arranged to extend over the top of the end of the actuating-arm *d*, so as to be engaged by said actuating-arm. It extends from the side of the block at a point above the bottom. The side of the block *e* is cut away beneath the lip *e'''* to provide a recess for the end of the actuating-arm and also an entrance to the socket in the block. By forming a recess at the side of the block beneath the lip additional space is afforded for the movement of the actuating-arm.

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

55 A lifting-rod having a foot consisting of a block having a socket at the top to receive the lower end of the rod and having a laterally extended lip at one side, above the bottom, for engagement with the actuating arm and having a recess in its side wall beneath said lip, a set-screw extended through the side wall of the block which engages the side of the rod, and an adjusting screw extended up through the bottom of the block which projects into the socket and engages the end of the rod, substantially as described.

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

65 GEO. A. FARLEY. [L. S.]

Witnesses:

BARNETT ROGERS,

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