

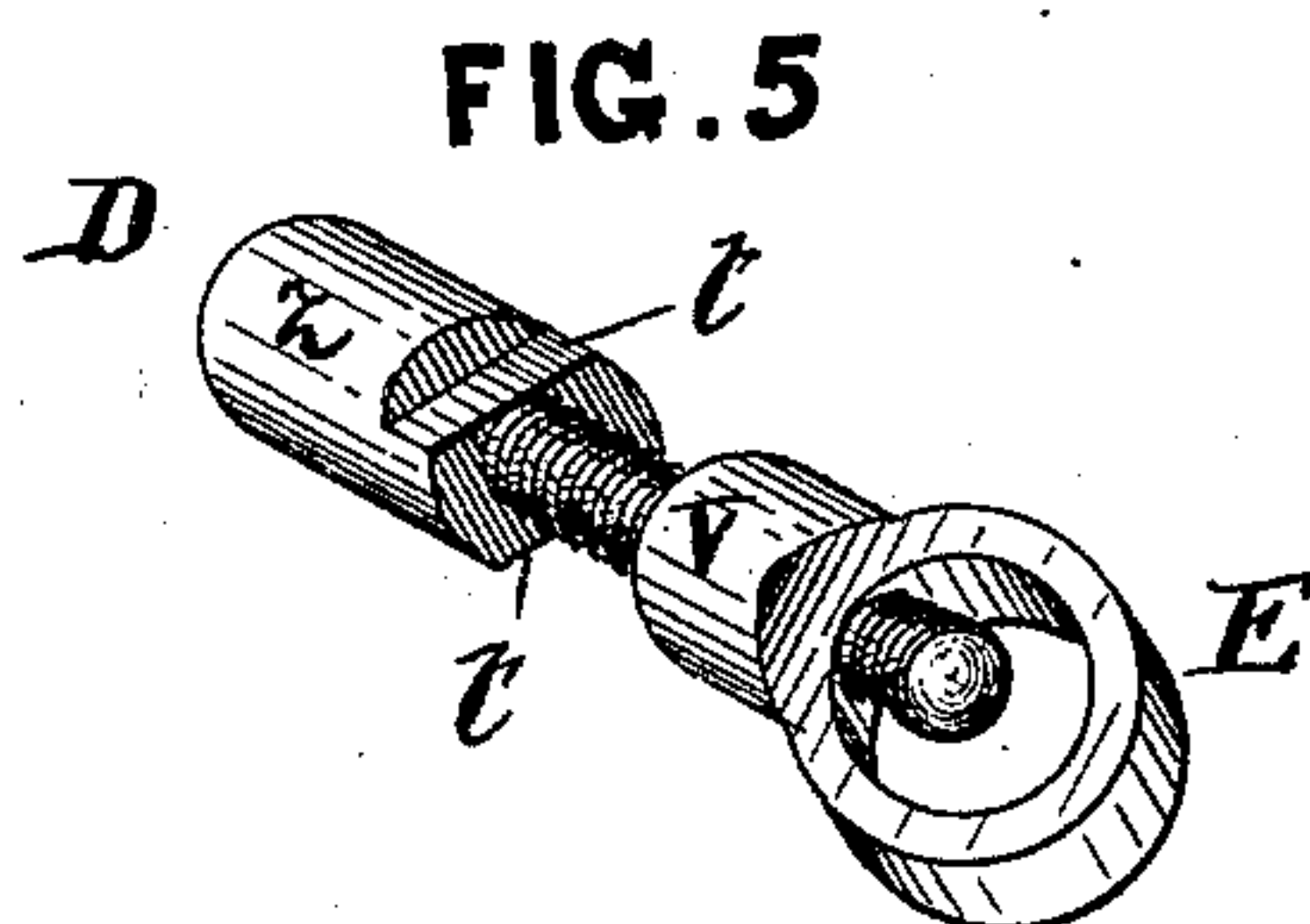
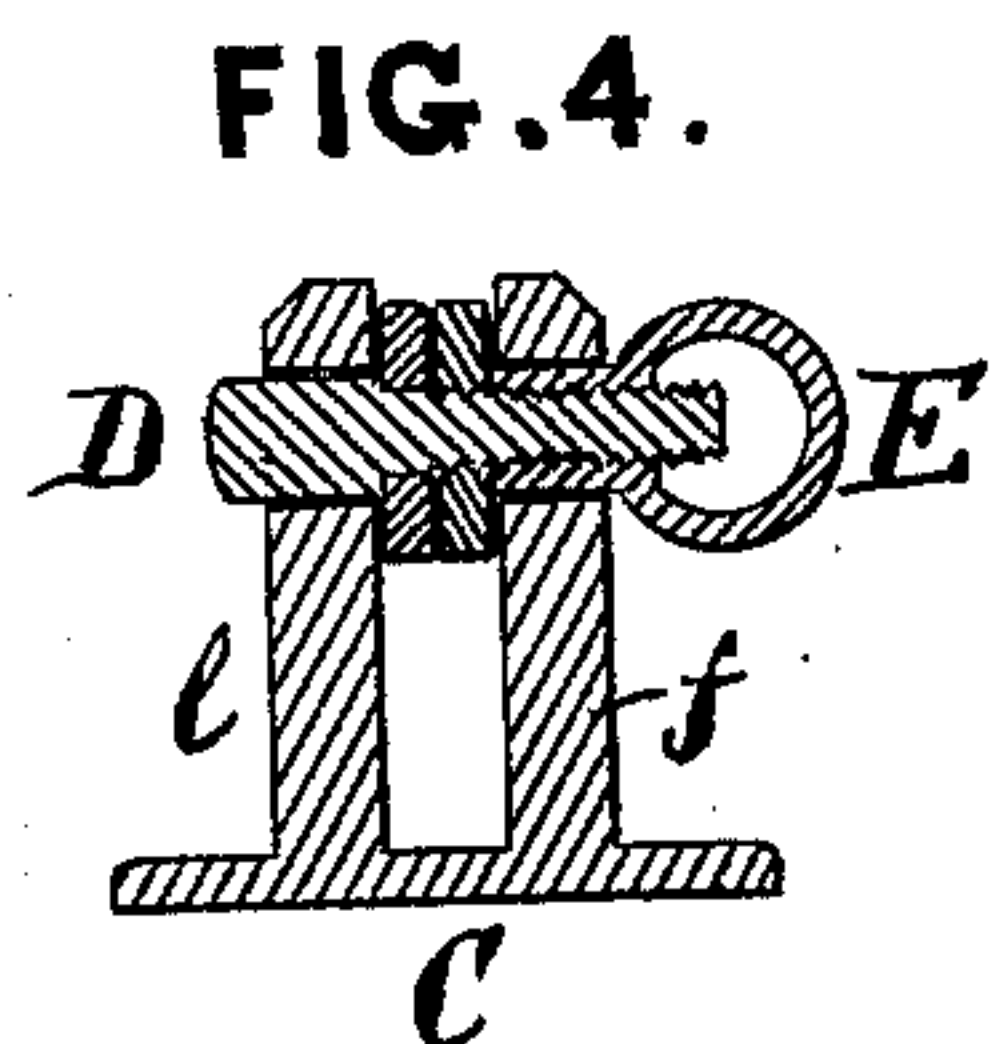
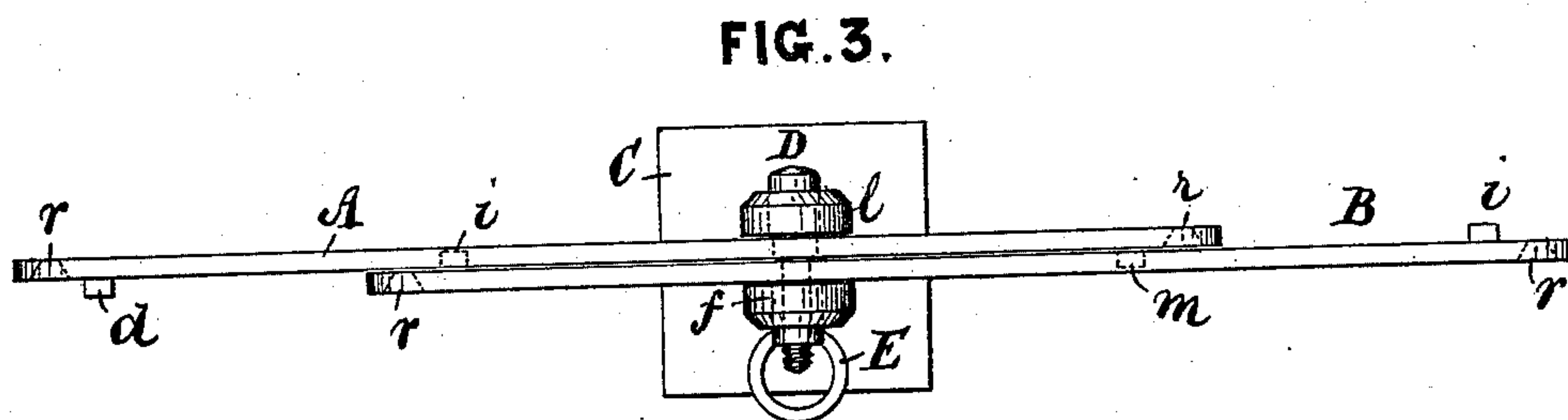
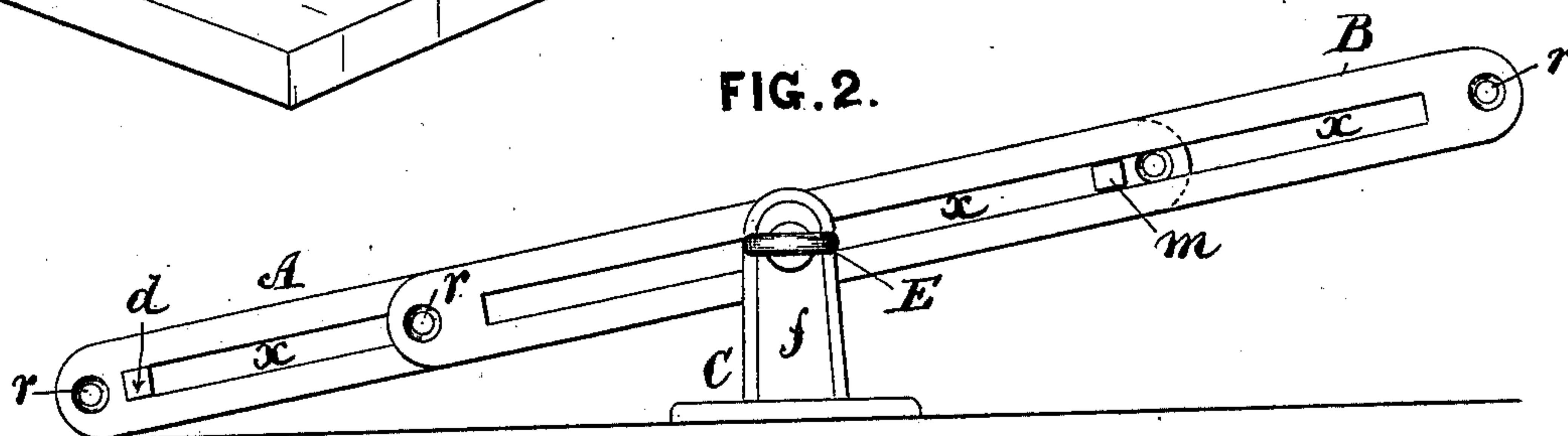
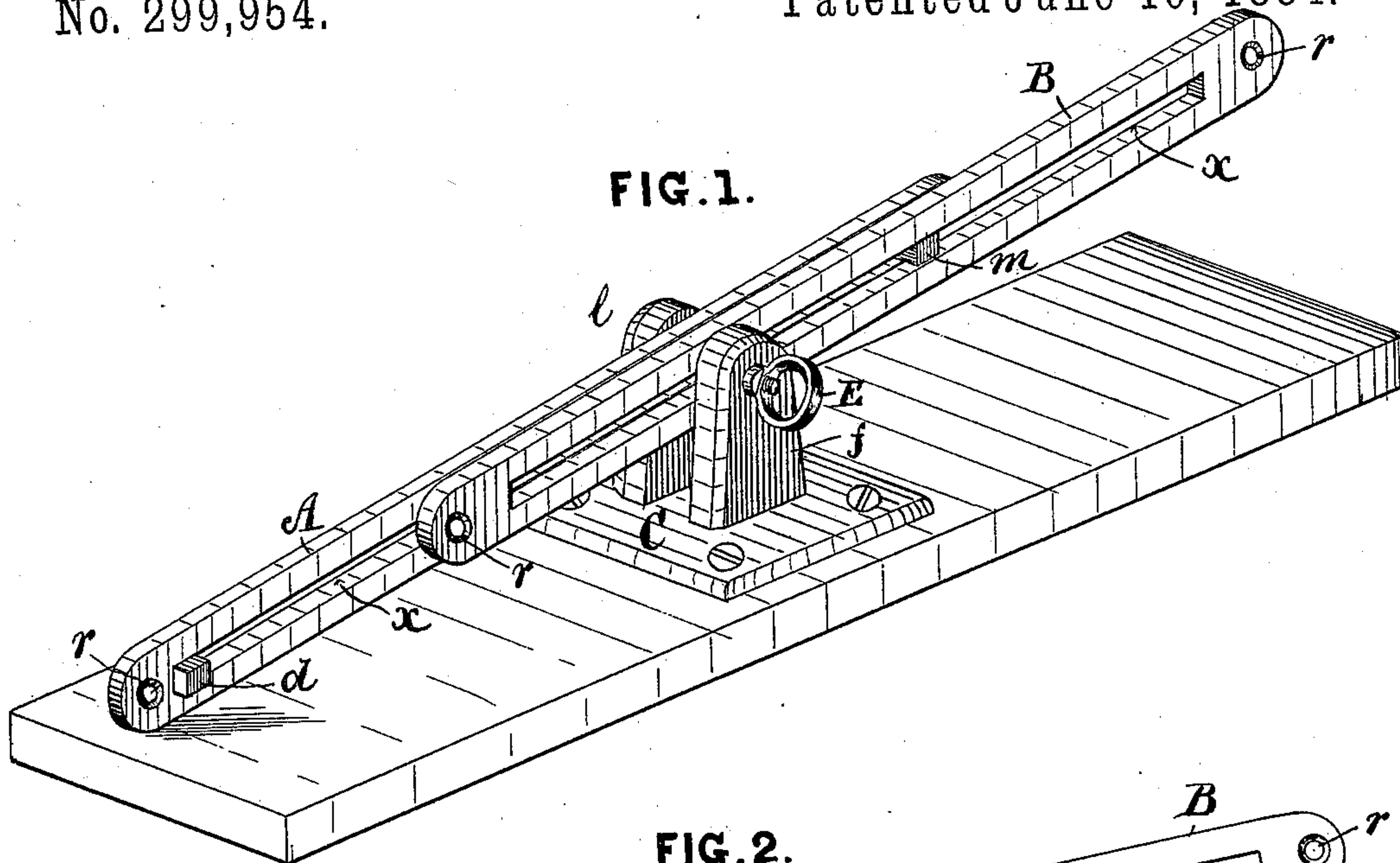
(No Model.)

D. BUCKLEY.

LEVER.

No. 299,954.

Patented June 10, 1884.



Witnesses.

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# UNITED STATES PATENT OFFICE.

DANIEL BUCKLEY, OF BOSTON, MASSACHUSETTS.

## LEVER.

SPECIFICATION forming part of Letters Patent No. 299,954, dated June 10, 1884.

Application filed April 14, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, DANIEL BUCKLEY, of Boston, in the county of Suffolk, State of Massachusetts, have invented a certain new and useful Improvement in Levers, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is an isometrical perspective view of my improved lever; Fig. 2, a side elevation of the same; Fig. 3, a top plan view; Fig. 4, a vertical transverse section taken through the bearing or support, and Fig. 5 a perspective view of the journal detached.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates to that class of levers which are extensible, and designed more especially for plumbers' use in connection with water-closets, tanks, &c., and also for supporting their work in any desired position; and it consists in a novel construction and arrangement of the parts, as hereinafter more fully set forth and claimed, by which a simpler and more effective device of this character is produced than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation, its extreme simplicity rendering an elaborate description unnecessary.

In the drawings, A B represent the arms or sections of the lever, and C the fulcrum or support. The arms are each provided with an elongated slot, *x*, running nearly the entire length of its body. The arm A is provided near one end of its slot *x* with a laterally-projecting stud, *d*, and at its opposite end with a laterally-projecting stud, *m*, the lever B being provided with two corresponding laterally-projecting studs, *i*. A screw-bolt, D, provided with the nut E, is used to journal the levers in the support C. This bolt is flattened on either side, as shown at *t*, the flattened portion being drawn into the slot *x* of the arm A when in use, and the head or rounded portion

*z* of the bolt resting in the standard *l* of the support when in use. The nut E is elongated and provided with a round body, *v*, which rests in the standard *f* when the nut is turned in fully, as best seen in Figs. 1, 2, and 3.

In the use of my improvement the arms are placed side by side, as shown in Fig. 1, with the stud *m* on the arm A inserted in the slot *x* of the arm B, and one of the studs *i* on the arm B inserted in the slot *x* of the arm A. The screw of the bolt D is then passed through the holes in the upper portion of the standards *l f* until the flattened portion *t* has entered the slot *x* in the arm A, after which the nut E is screwed onto the bolt until the arms A B are firmly clamped between the nut and head of the bolt, and the portions *z v* rest in their respective bearings in the standards *l f*.

It will be obvious that when the levers are tilted or tipped the journal will be turned in its bearings in the support C by means of the flattened portion *t*, inserted in arm A, and also that the arms will be kept in alignment by the studs which project into the slots. The arms are each provided with a hole, *r*, at either end, through which screw-bolts may be passed, provided with nuts for attaching auxiliary levers to either of the arms, thereby lengthening them, as required.

Having thus explained my invention, what I claim is—

1. In a device substantially such as described, the arm A, provided with the slot *x* and studs *m d*, and the arm B, provided with the slot *x* and studs *i*, in combination with a clamp for clamping said arms together and journaling or pivoting them, substantially as set forth.

2. In a device substantially such as described, the screw-bolt D, provided with the round elongated head *z* and flattened portion *t*, in combination with the nut E, having the round elongated body *v*, for journaling and clamping the arms A B, substantially as specified.

3. In a device substantially such as described, the standard C, provided with the bolt D and nut E, adapted to clamp and journal the arms A B, substantially as set forth.

4. The improved extensible lever herein described, the same consisting of the arm A, provided with the slot *x*, studs *d m*, and holes

$r$ , the arm B, provided with the studs  $i$ , slot  $x$ , and holes  $r$ , the screw-bolt D, having the rounded head  $z$  and flattened portion  $t$ , the nut E, having the rounded body  $v$ , and the  
5 support C, provided with the standards  $l f$ , constructed, combined, and arranged to operate substantially as specified.

5. In a device substantially such as de-

scribed, the arms A B, provided with the holes  $r$ , for attaching auxiliary arms to lengthen the lever, substantially as set forth. 10

DANIEL BUCKLEY.

Witnesses:

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