

No. 622,485.

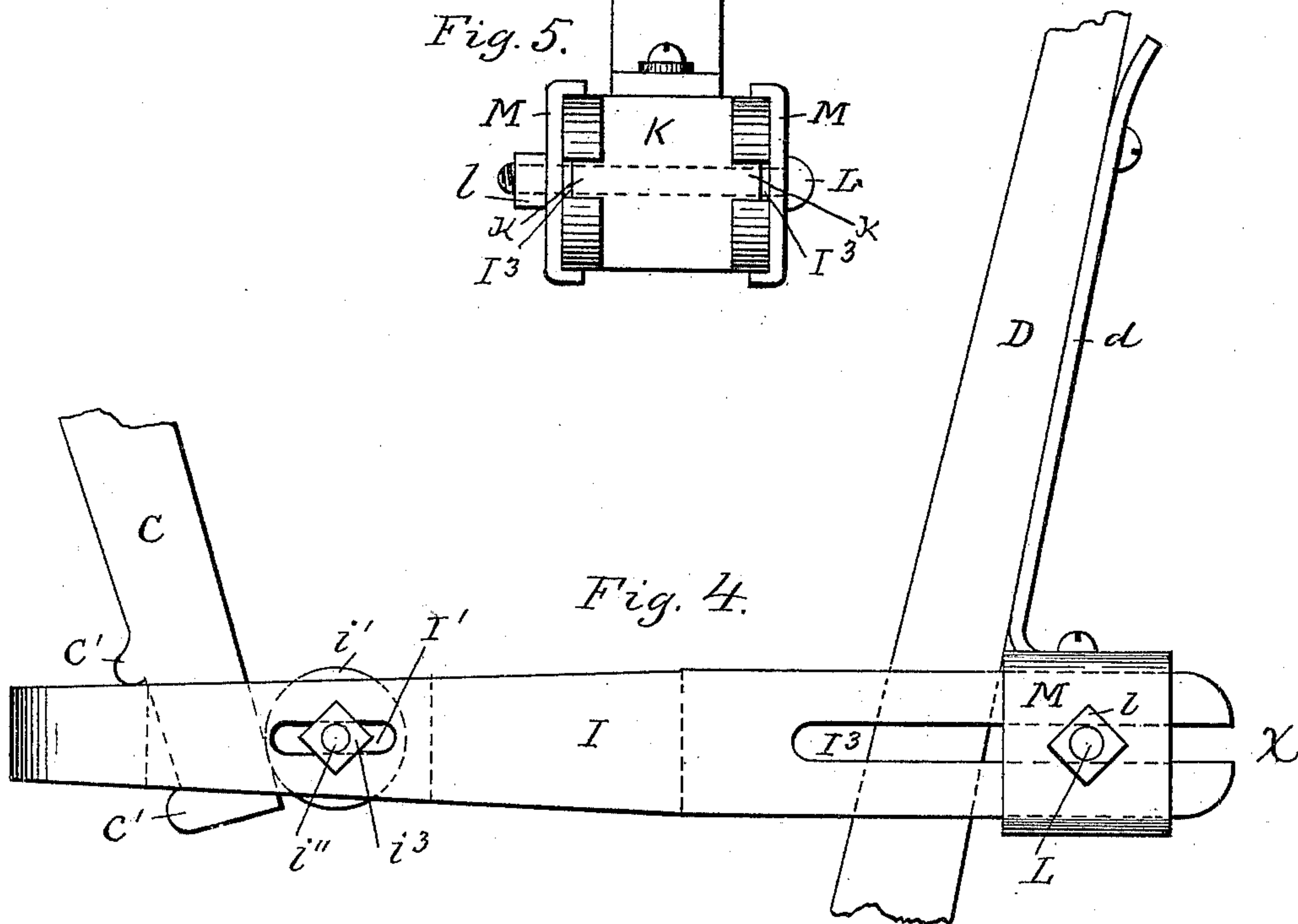
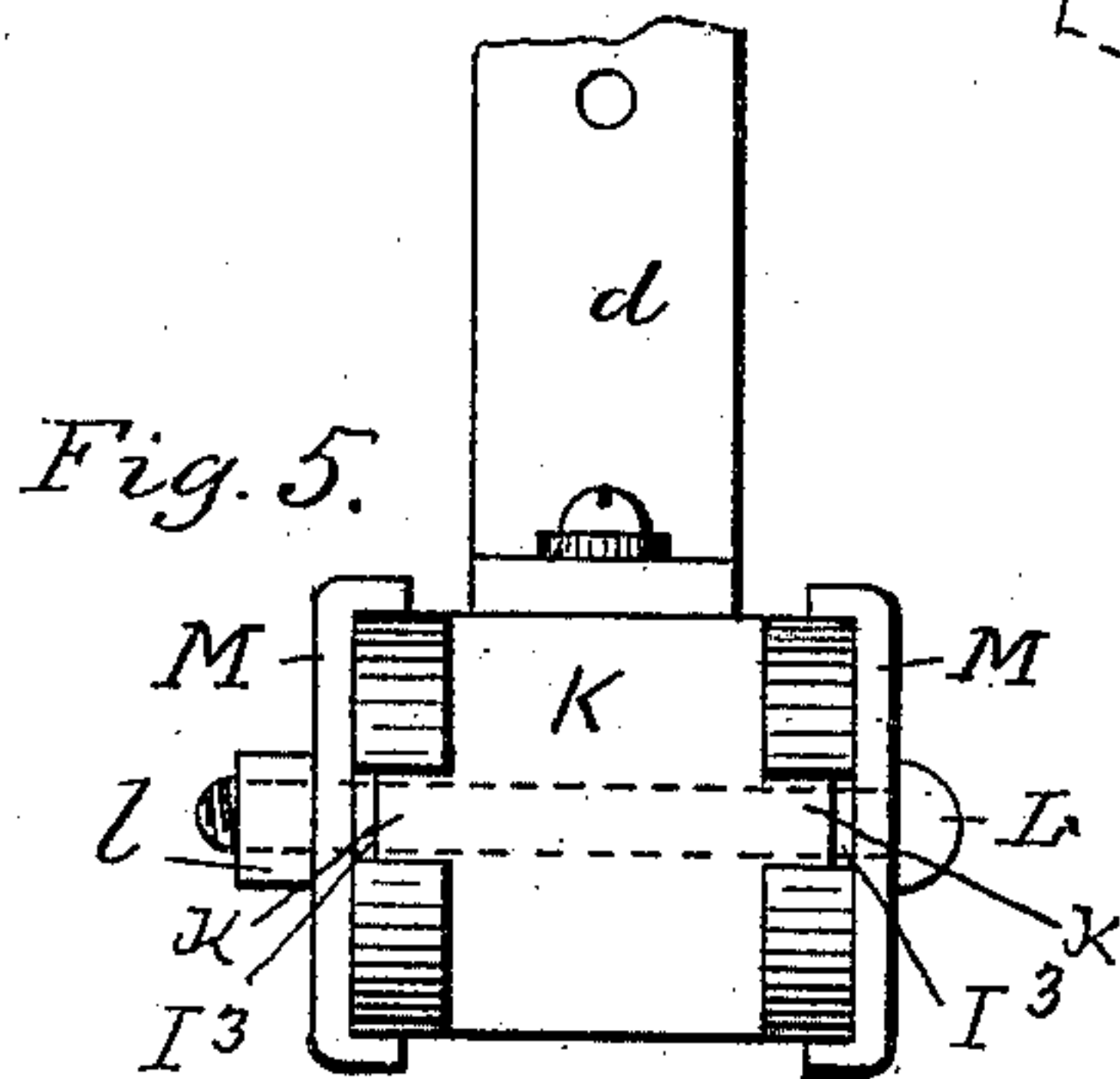
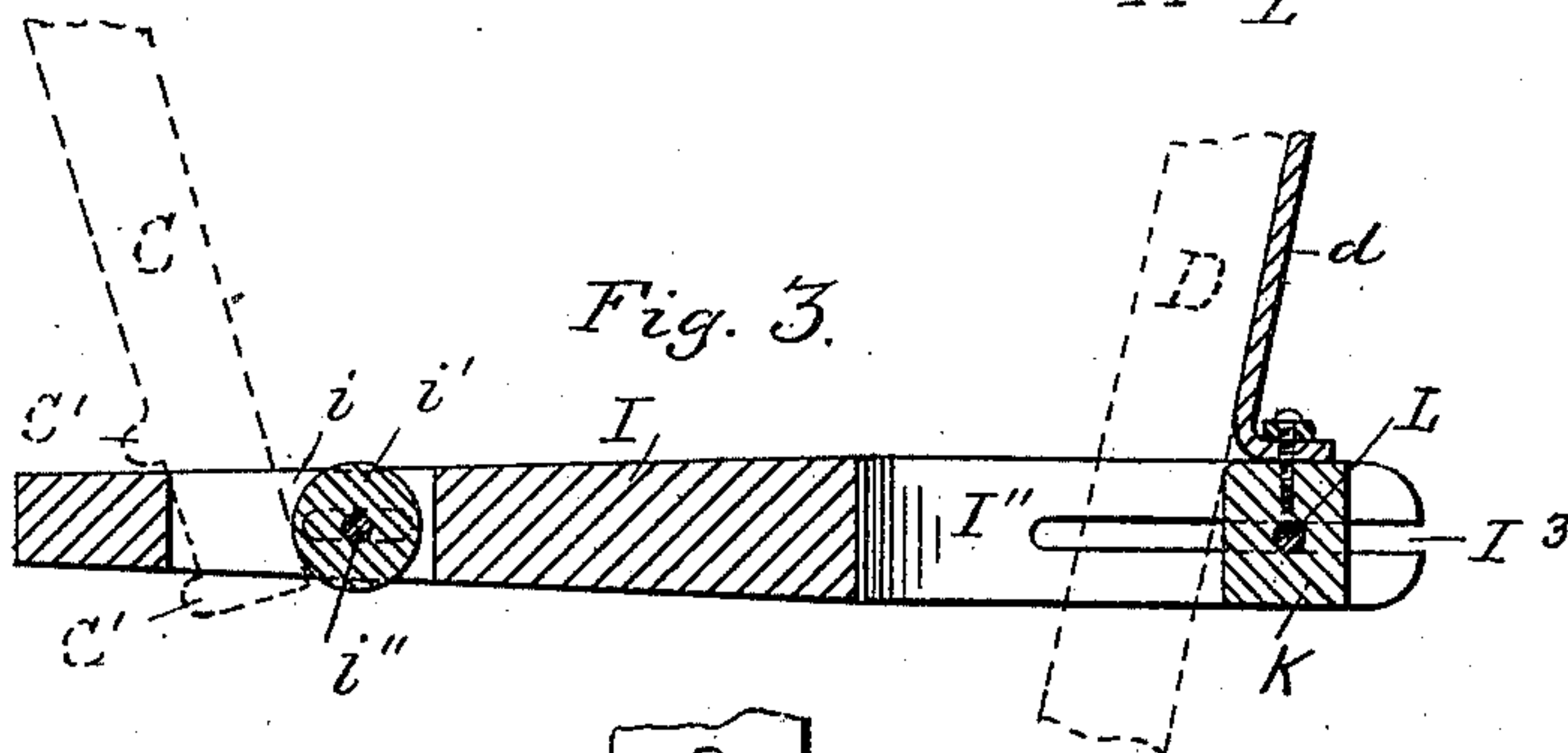
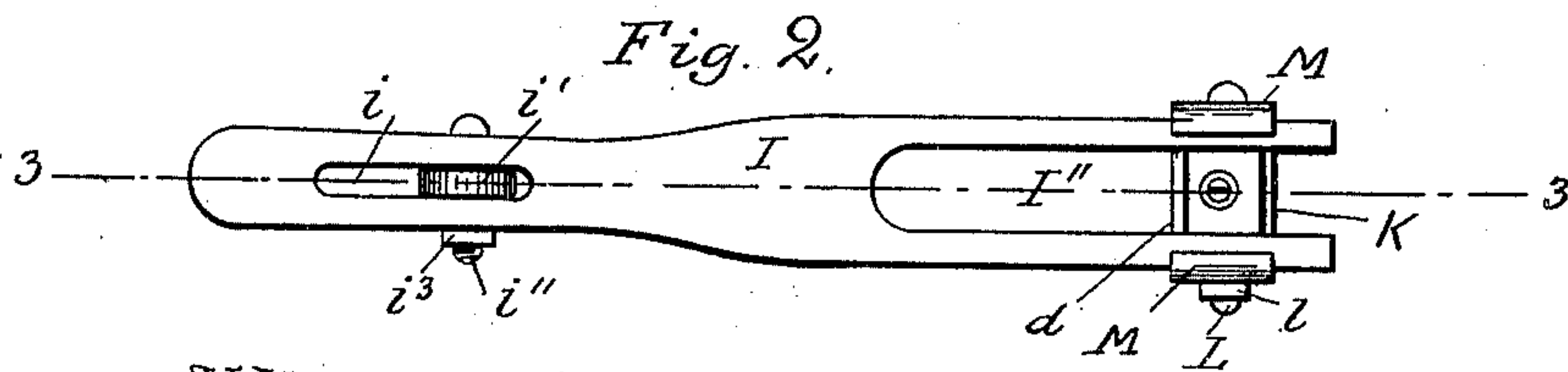
Patented Apr. 4, 1899.

L. JACQUES & L. PAINCHAUD.
LOOM PICKING DEVICE.

(Application filed Mar. 7, 1898.)

(No Model.)

2 Sheets—Sheet 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

LEOPOLD JACQUES AND LUDGER PAINCHAUD, OF SALEM, MASSACHUSETTS.

LOOM PICKING DEVICE.

SPECIFICATION forming part of Letters Patent No. 622,485, dated April 4, 1899.

Application filed March 7, 1898. Serial No. 672,811. (No model.)

To all whom it may concern:

Be it known that we, LEOPOLD JACQUES, a citizen of the United States, and LUDGER PAINCHAUD, a citizen of Canada, both residing at Salem, in the county of Essex and State of Massachusetts, have invented new and useful Improvements in Loom Picking Devices, of which the following is a specification.

This invention relates to improvements in loom picking devices; and it consists in a new and useful construction of the lug-stick, as will hereinafter be more fully shown and described, reference being had to the accompanying drawings, wherein—

Figure 1 represents a side elevation of the invention shown as applied to a picker-staff and picker-shaft arm. Fig. 2 represents a top plan view of the improved lug-stick. Fig. 3 represents a longitudinal section on the line 3 3, shown in Fig. 2. Fig. 4 represents a detail side elevation of the improved lug-stick, and Fig. 5 represents an end view seen from X in Fig. 4.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

In the drawings, A represents the frame of a loom, to which is journaled the picker rocker-shaft B, having attached to it the rocker-shaft arm C, as is common in machines of this kind.

D is the picker-staff, to the upper end of which is secured the picker E, as usual. The lower end of the picker-staff D is secured to the rocker F, adapted to rock on the rocker-shoe G, forming a part of the rocker-shaft H, journaled in the frame A, as usual. On the rocker-shoe G are secured the curved bearings g, adapted to serve as fulera for the lower projections f on the rocker F, as is usual in devices of this kind.

In connection with this device we use a lug-stick for connecting the rocker-shaft arm C and picker-staff D, which is constructed as follows:

I is the lug-stick, preferably made of wood and having a vertical slot i, adapted to receive the lower end of the picker-shaft arm C, as shown. In the slot i is arranged a disk i', journaled on a bolt i'', which is adjustable in slots I', so as to hold the said disk i' in contact with the picker-shaft arm C, and said ad-

justable disk i' serves as a means to take up any wear on said picker-shaft arm C or the slotted portion of the lug-stick I, as shown. The bolt i'' is provided with a nut i³, by means of which the disk i' is firmly secured in position within the lug-stick I after being adjusted.

The disk i' is shown as cylindrical; but it may be made of any other suitable or desirable shape without departing from the essence of our invention.

On the lower end of the picker-shaft arm C are lips or projections C' C', which serve as means for holding the inner end of the lug-stick connected to said picker-shaft arm, as shown in Figs 1, 3, and 4.

The picker-staff D is made to pass loosely through a slotted perforation or forked recess I'' in the outer end of the lug-stick I, as shown, and to the outer end of said lug-stick is adjustably secured a block K by means of a bolt L and nut l.

I³ is a slot in the forked end of the lug-stick for receiving the adjustable bolt L, as shown.

The block K has formed on its opposite sides ribs or beads k, as most clearly shown in Fig. 5, that fit within the slots I³ and guide the block in the forked end of the lug-stick and operate to hold the block therein. In connection with said adjustable block K we use U-shaped metal clamping plates or washers M M on opposite sides of the slotted portion of the lug-stick, as shown. Said clamping-plates operate to clamp the forked ends of the lug-stick against the opposite sides of the block k, and their flanged upper and lower ends embrace the upper and lower edges of the slotted ends of said lug-stick and prevent the latter from spreading. By this arrangement the block K may be adjusted inward, so as to give more sweep and power to the shuttle, and vice versa, as circumstances may require.

To the rocker projection f is attached the strap N, connected to the spring n for the purpose of automatically returning the picker-staff to its normal position (shown in Fig. 1) during the return motion of the rocker-shaft arm C, as is common in devices of this kind.

d is a strap secured in its upper end to the picker-staff D and is attached in its lower end

to the adjustable block K on the lug-stick, as shown in Figs. 1 and 4, and by such arrangement the lug-stick is suspended at its rear end from the picker-staff. In devices of this
 5 kind the lug-stick is usually composed of a strap or straps with or without a wooden lug, which device is liable to be readily worn out. In our invention we dispense entirely with such strap or straps and make a rigid con-
 10 nection between the picker-staff and picker-shaft arm by which a more positive action is obtained in actuating the shuttle and obviating unnecessary wear on the connecting parts, and by our invention we are enabled to take
 15 up the wear on the picker-shaft arm and lug-stick from time to time, as may be needed. We can also adjust the position of the lug-stick relative to the picker-staff so as to impart to it a more or less sweep and power, as
 20 may be required.

What we wish to secure by Letters Patent and claim is—

In a loom picking device, a solid, integral

lug-stick suitably connected at one end to the picker-shaft arm and vertically forked at its opposite end, as at I' to embrace the picker-staff and having coincident slots I³ formed in the opposite sides of the forked ends of the lug-stick and extending entirely to the outer ends thereof, a block K arranged between said forked ends and provided on its opposite sides with ribs $\frac{1}{2}$ disposed in the slots I³, U-shaped clamps M embracing the forked and slotted ends of the lug-stick, and an adjusting-bolt L passing through the block K, the slots I³ and the clamping-plates M and provided with a nut, substantially as described and for the purpose specified.

In testimony whereof we have hereunto set our hands in presence of two subscribing witnesses.

LEOPOLD JACQUES.
 LUDGER PAINCHAUD.

Witnesses:

ALBAN ANDRÉN,
 AUGUSTUS J. BOYDEN.