

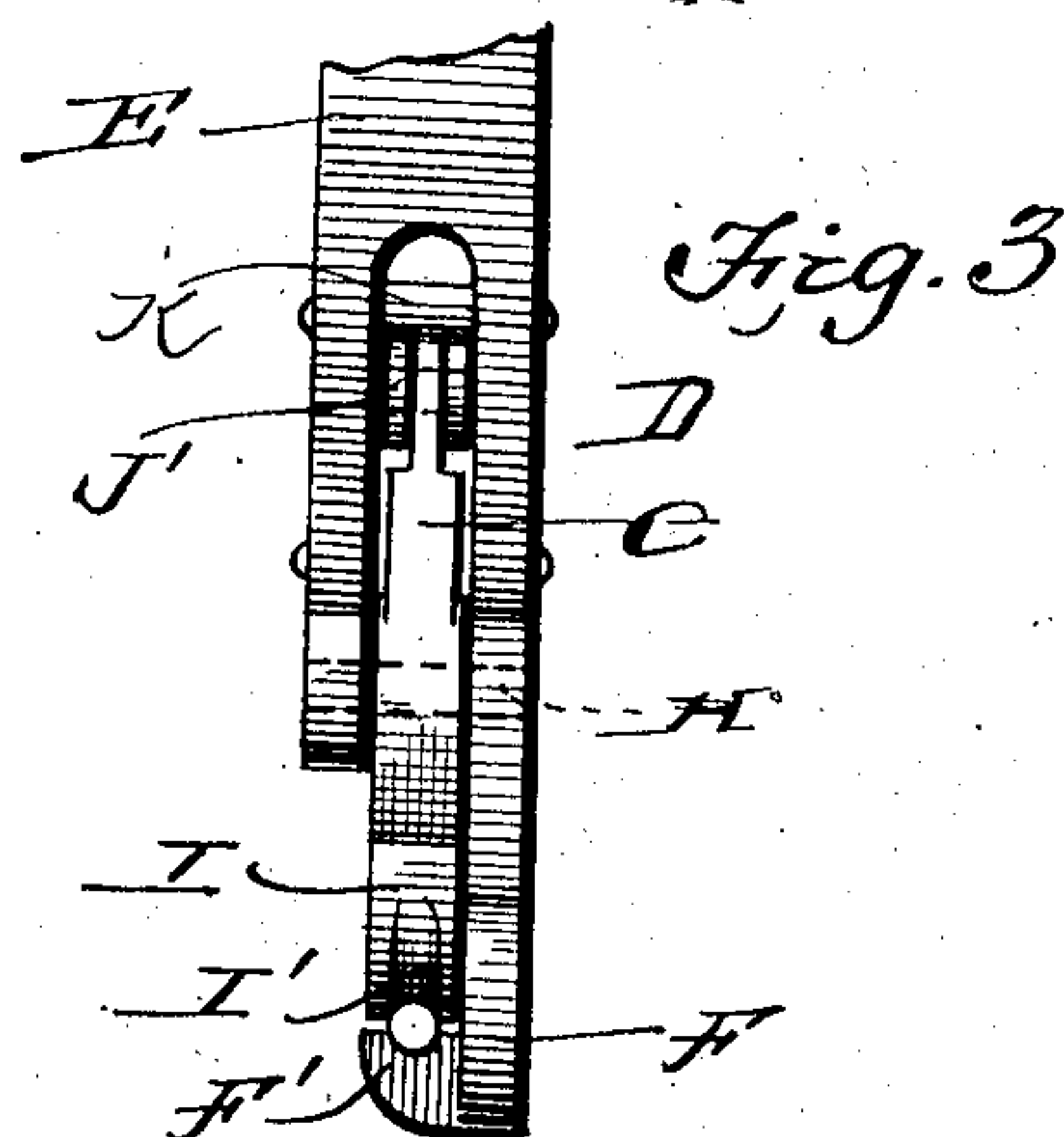
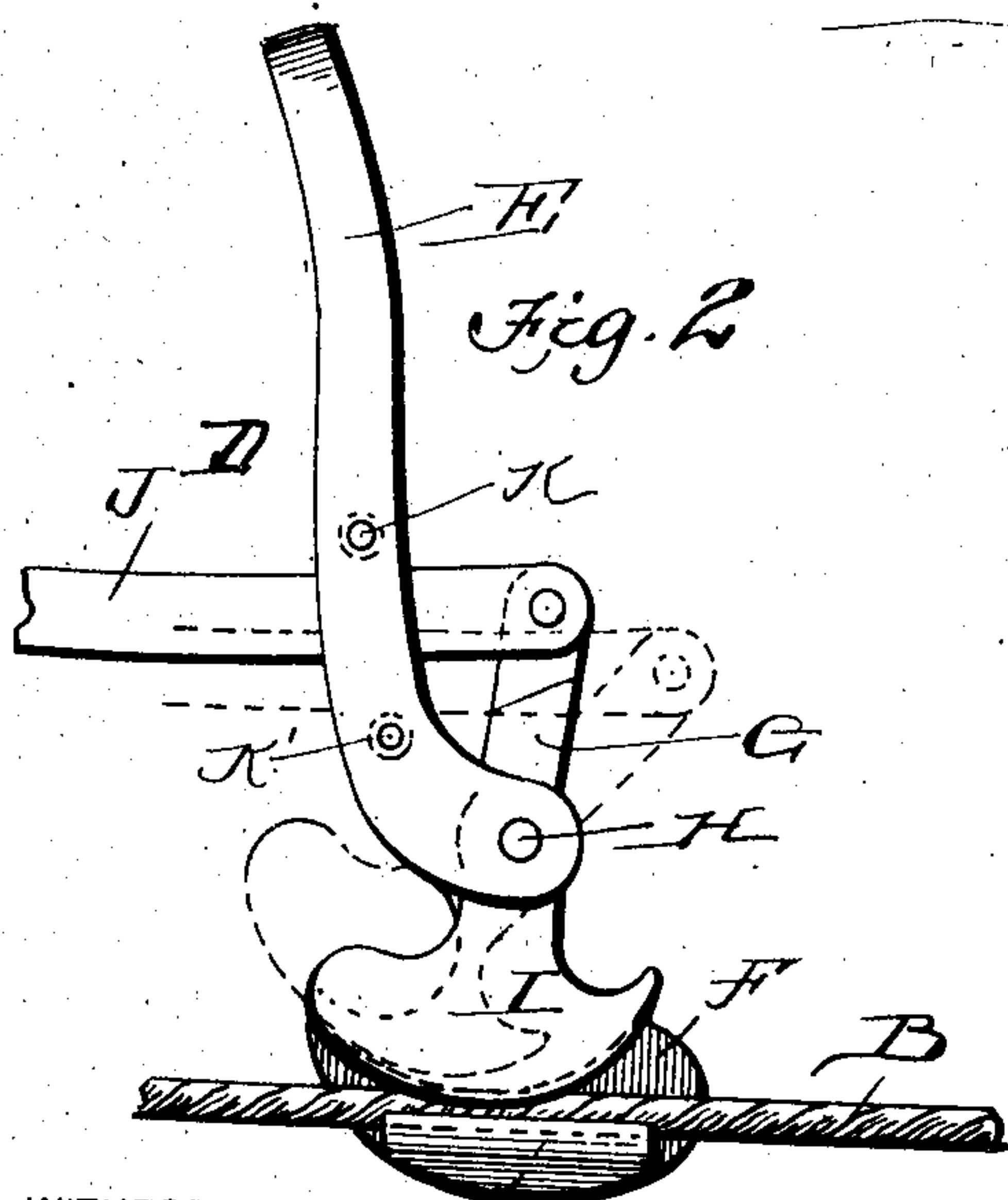
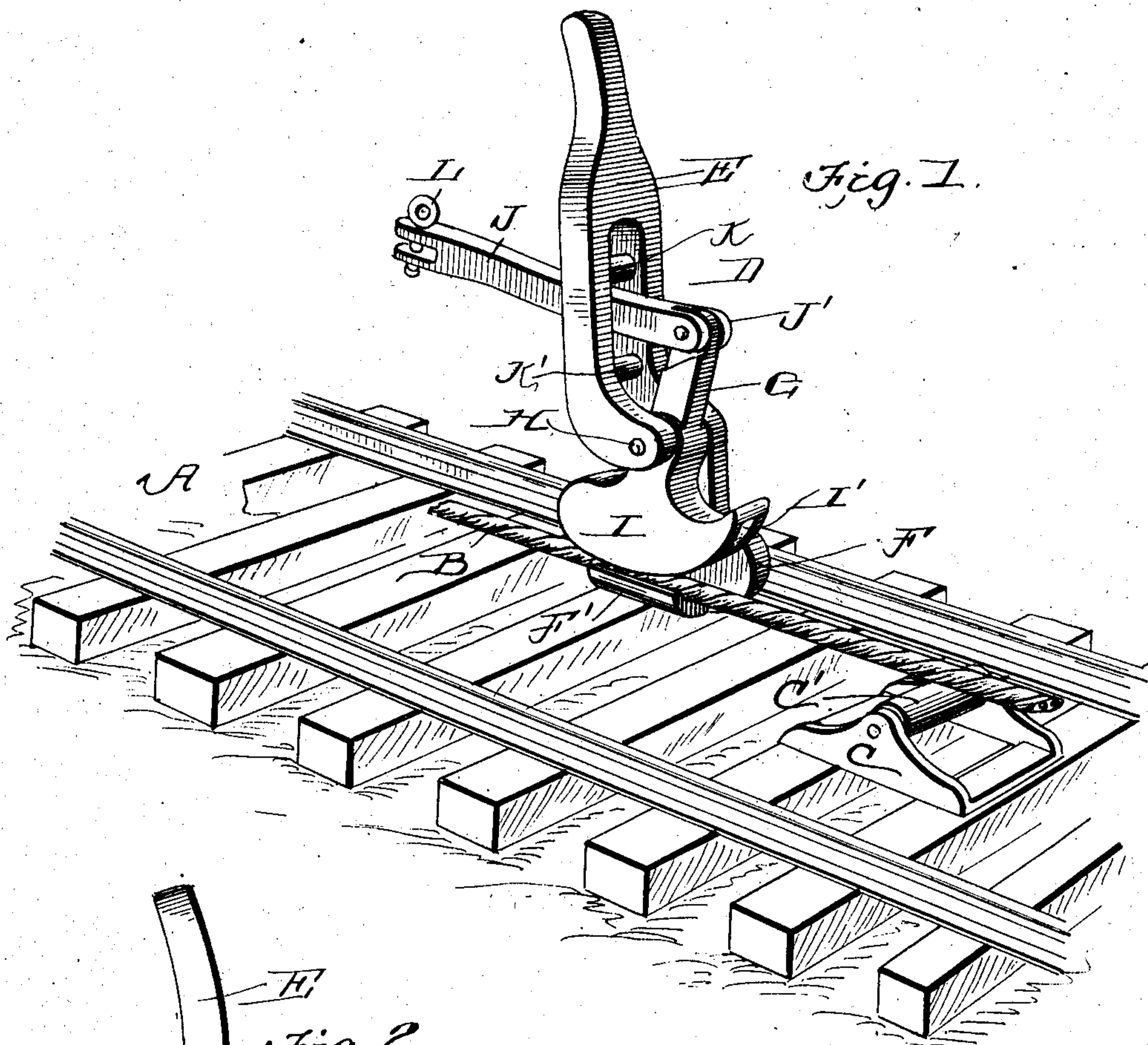
No. 834,768.

PATENTED OCT. 30, 1906.

J. S. SPARKS.
CABLE GRIP.

APPLICATION FILED MAR. 23, 1906.

2 SHEETS—SHEET 1.



WITNESSES

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2 SHEETS—SHEET 2.

Fig. 5.

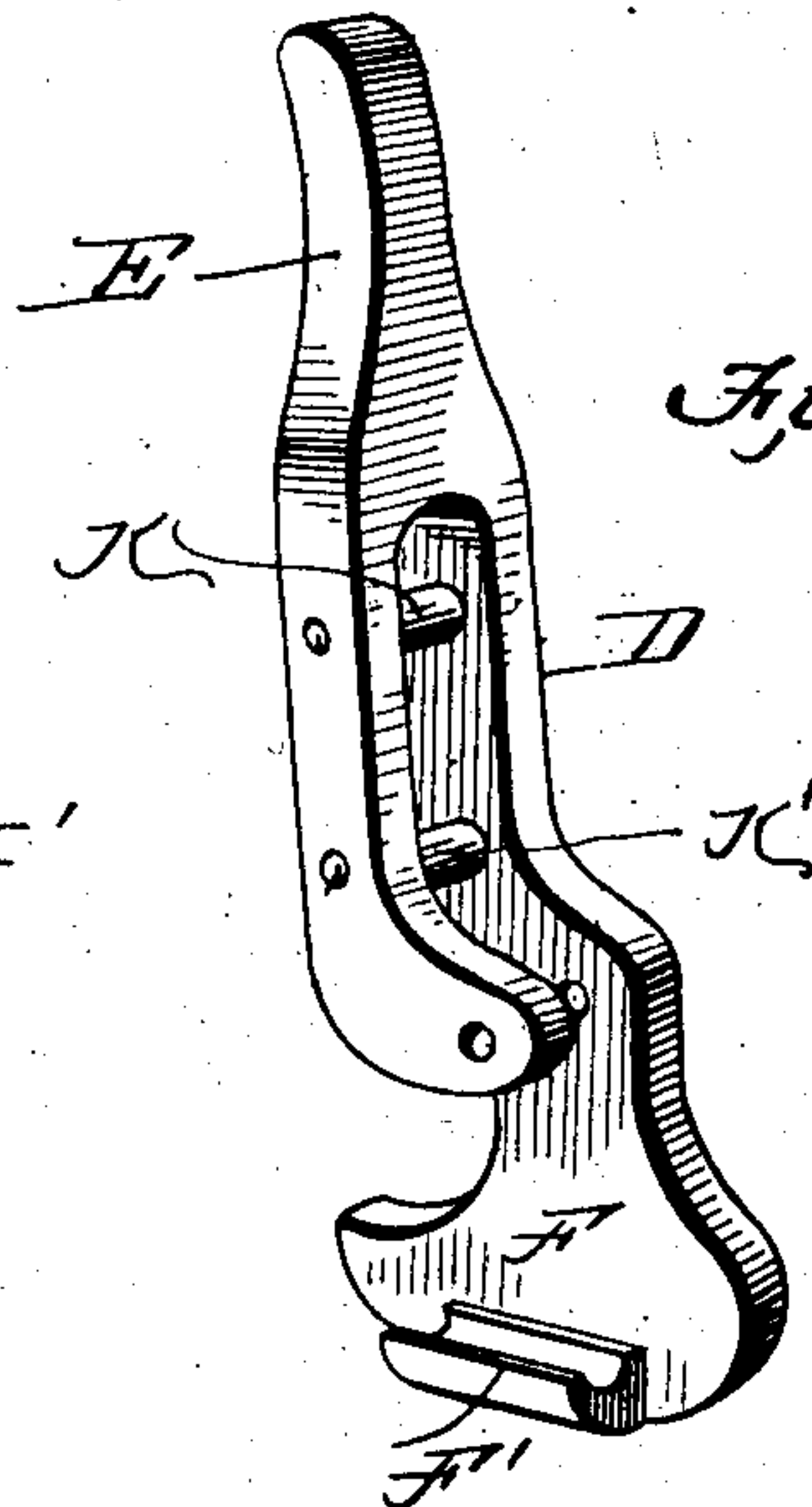
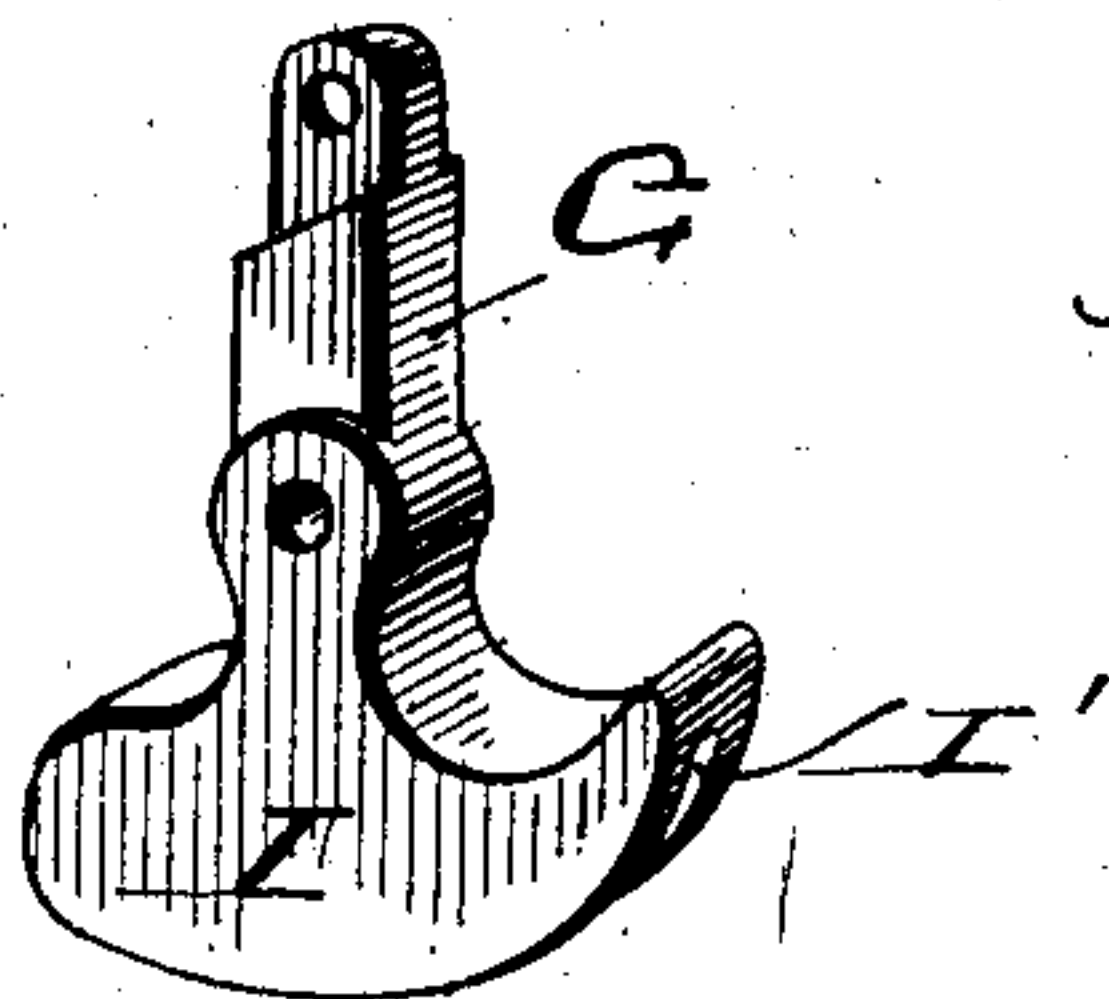


Fig. 4.

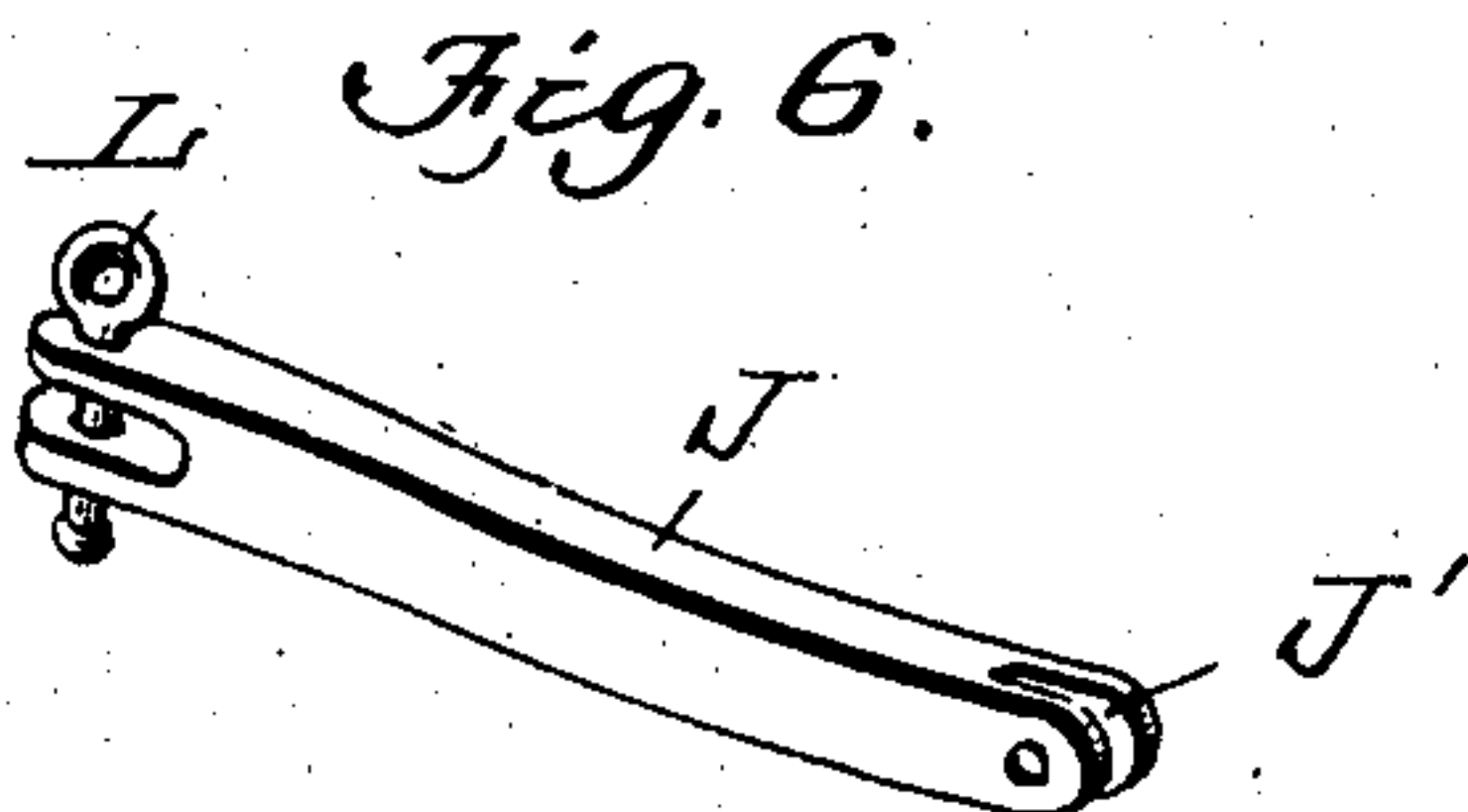


Fig. 6.

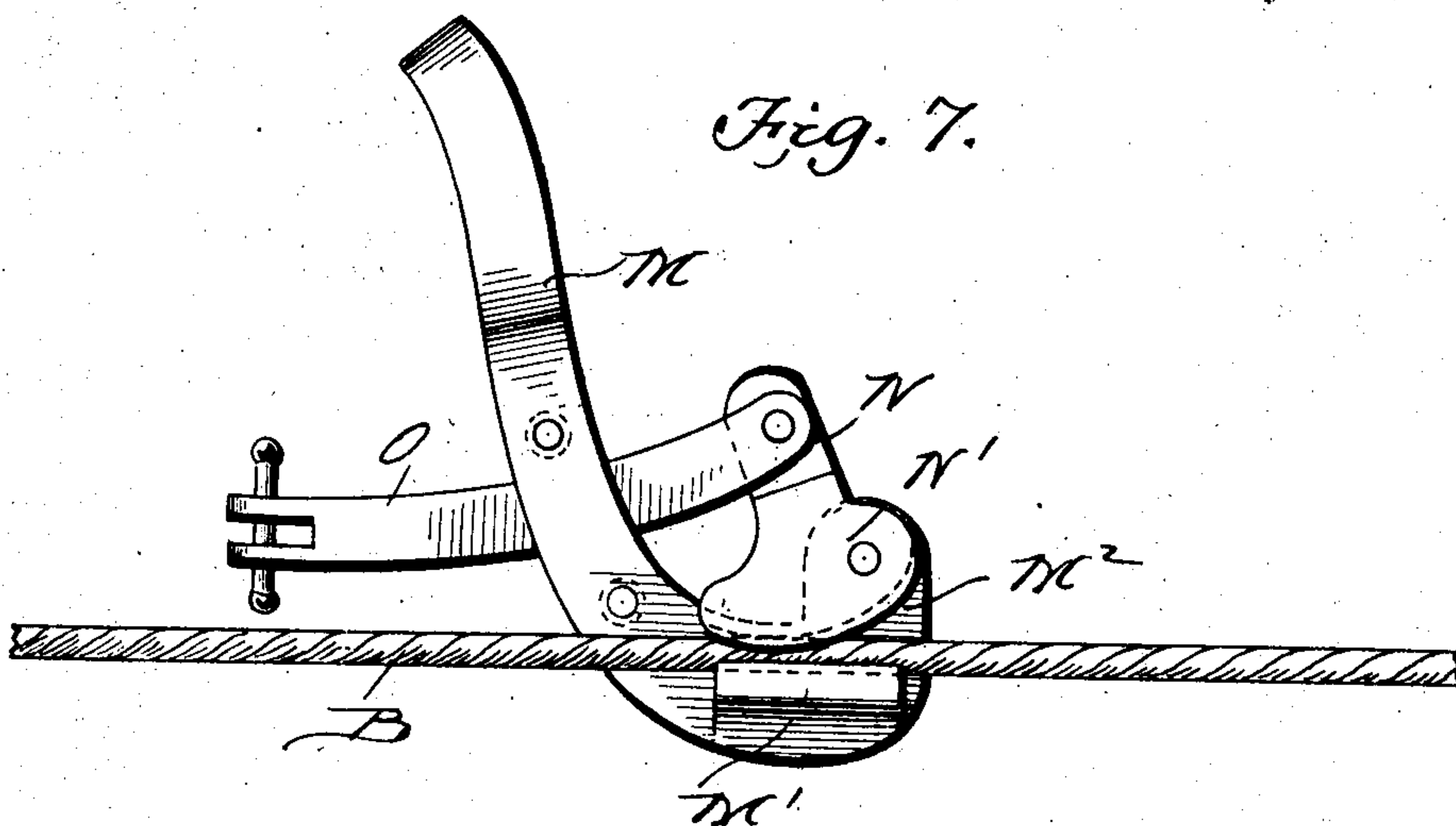


Fig. 7.

WITNESSES

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UNITED STATES PATENT OFFICE.

JOHN S. SPARKS, OF BESSEMER, ALABAMA.

CABLE-GRIP.

No. 834,768.

Specification of Letters Patent.

Patented Oct. 30, 1906.

Application filed March 23, 1906. Serial No. 307,705.

To all whom it may concern:

Be it known that I, JOHN S. SPARKS, a citizen of the United States, residing at Bessemer, in the county of Jefferson and State of Alabama, have invented a new and useful Improvement in Cable-Grips, of which the following is a specification.

This invention relates to cable-grips, and more particularly to grips used on mining-cars where cables are used for haulage, the object being to provide an arm with a cam-shoe adapted to engage the cable connected to the draw-bar of the car.

Another object of my invention is to provide a grip so constructed that it can be readily connected or disconnected from the running cable.

With these objects in view my invention consists, essentially, in the employment of a forked arm provided with a grooved lug which is adapted to fit under the cable, said arm being provided with a cam-shoe having a grooved face, the upper end of said shoe being connected to the draw-bar of the car.

The invention consists also in certain details of construction hereinafter fully described, and pointed out in the claims.

In the drawings forming a part of this specification, Figure 1 is a perspective view of the grip, showing it attached to a cable supported between the track. Fig. 2 is a side view of the grip attached to a cable. Fig. 3 is an end view of the grip. Fig. 4 is a perspective view of the supporting-arm. Fig. 5 is a perspective view of the shoe. Fig. 6 is a perspective view of the draw-bar; and Fig. 7 is a side view of a modification, showing it attached to a cable.

Referring to the drawings, A indicates a railroad track; B, the cable, mounted on supports C, and D the grips, connected to the cable.

The grip D consists of a forked arm E, having an enlarged downwardly-extending member F, formed on one of the forked members of the arm, provided with an outwardly-projecting grooved lug F', adapted to fit under the cable B. A lever G is mounted on a bolt H, secured between the end of the forked member of the arm F, and is provided at its lower end with a cam-shoe I, provided with a grooved face I'. The upper end of the lever is reduced and apertured and is secured in the bifurcated end J' of the draw-bar J by a

bolt passing through openings formed in the walls of the bifurcation. The draw-bar J extends through the forks of the cam F between the antifriction-rolls K', mounted on bolts K, and the other end of the bar is forked, having apertures formed in its members, in which a coupling-pin L is adapted to be secured.

In the modification shown in Fig. 7 the grip is especially adapted to be used where the cable passes over the car, the forked arm M being formed with a similar lug M' and is provided with an upwardly-projecting member M², to which the cam-shoe N', carried by the lever N, is pivoted, the lever N being connected to the draw-bar O in a similar manner.

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

1. In a device of the kind described, the combination with a forked arm, of a shoe pivoted to said arm, and a draw-bar passing through said arm connected to said shoe, for the purpose described.

2. In a device of the kind described, the combination with a forked arm having a grooved lug, of a lever pivoted in said arm provided with a cam-shoe, and a draw-bar passing through said arm connected to said lever, for the purpose described.

3. In a device of the kind described, the combination with a forked arm having an enlarged member, of a grooved lug arranged on said member, a lever pivoted in said arm provided with a cam, having a grooved face, and a draw-bar connected to the upper end of said lever, for the purpose described.

4. In a device of the kind described, the combination with a forked arm having antifriction-rollers, of an enlarged member formed on one of said forked members, a grooved lug extending outwardly from said members, a lever pivoted between said arm provided with a cam-grooved shoe at its lower end and a draw-bar connected to the upper end of said lever extending through said arm between said rollers, for the purpose described.

JOHN S. SPARKS.

Witnesses:

B. C. JONES,
J. H. READ.