

J. E. LEWIS.
CONNECTING ROD FOR SWITCH POINTS.
APPLICATION FILED NOV. 12, 1907.

900,750.

Patented Oct. 13, 1908.

2 SHEETS—SHEET 1.

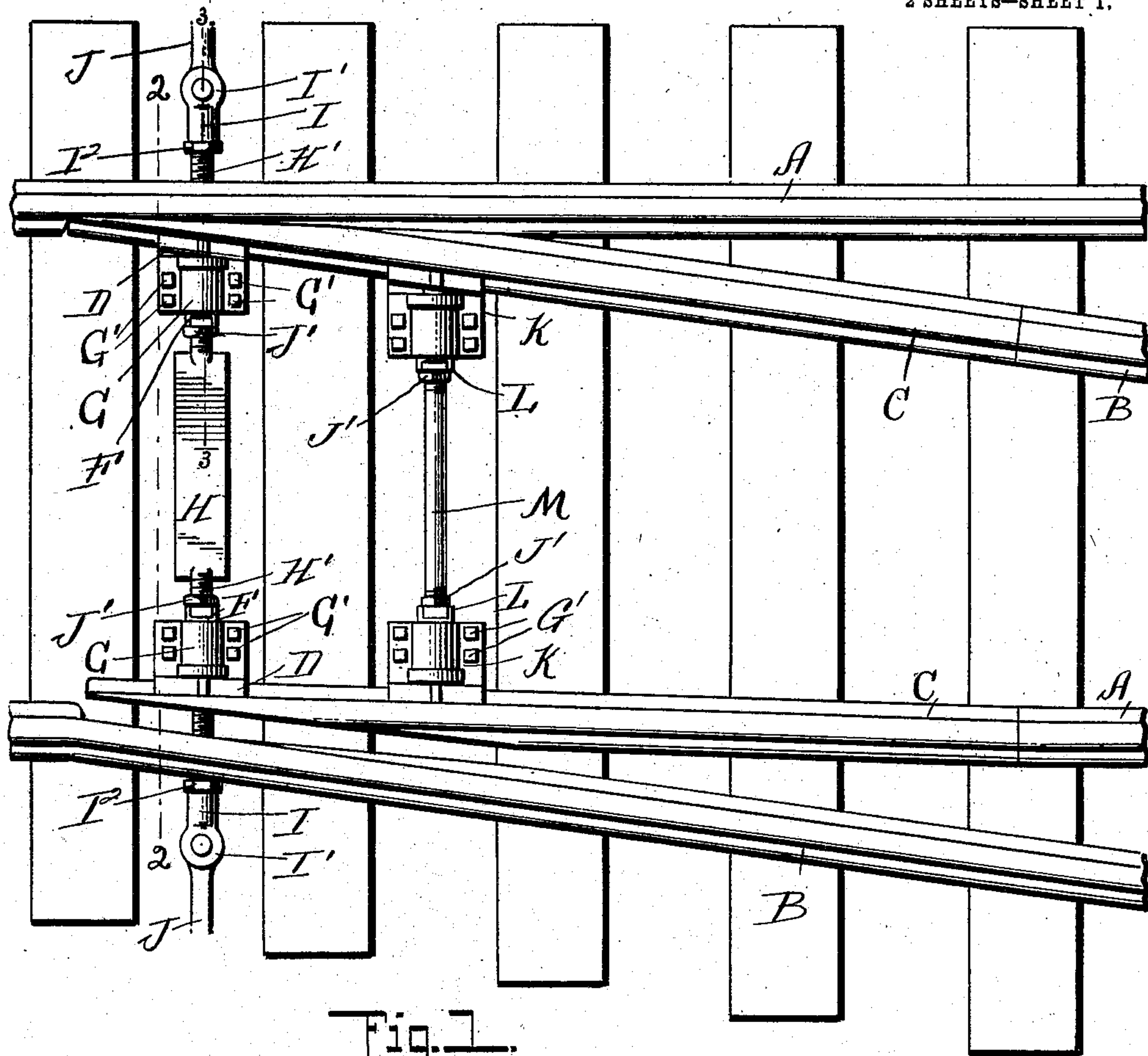


Fig. 1.

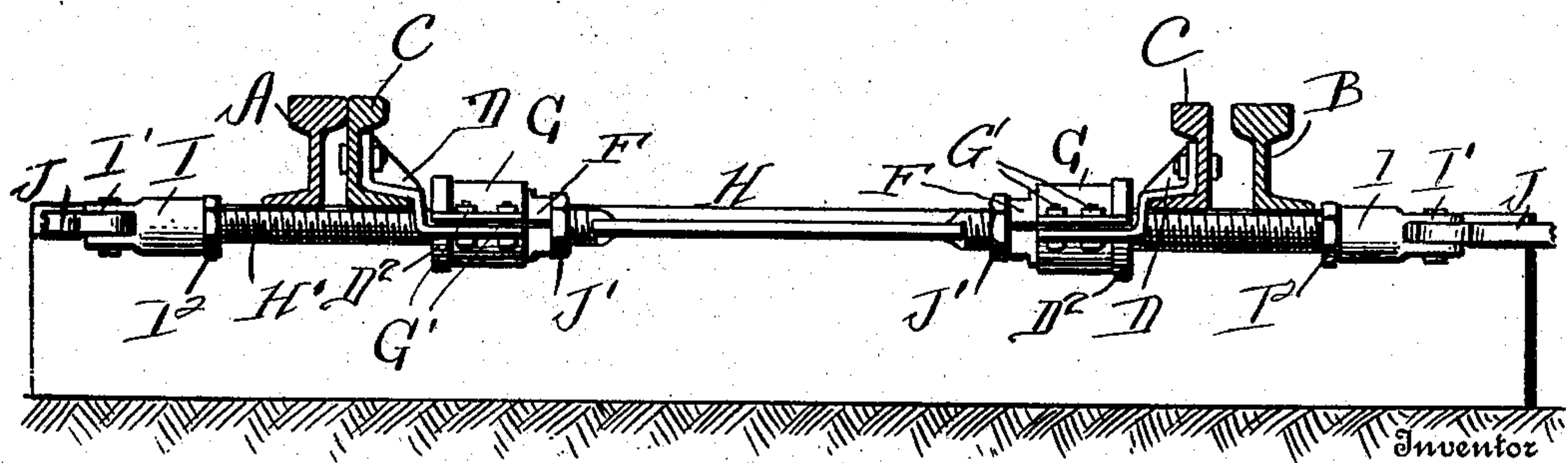


Fig. 2.

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Witnesses

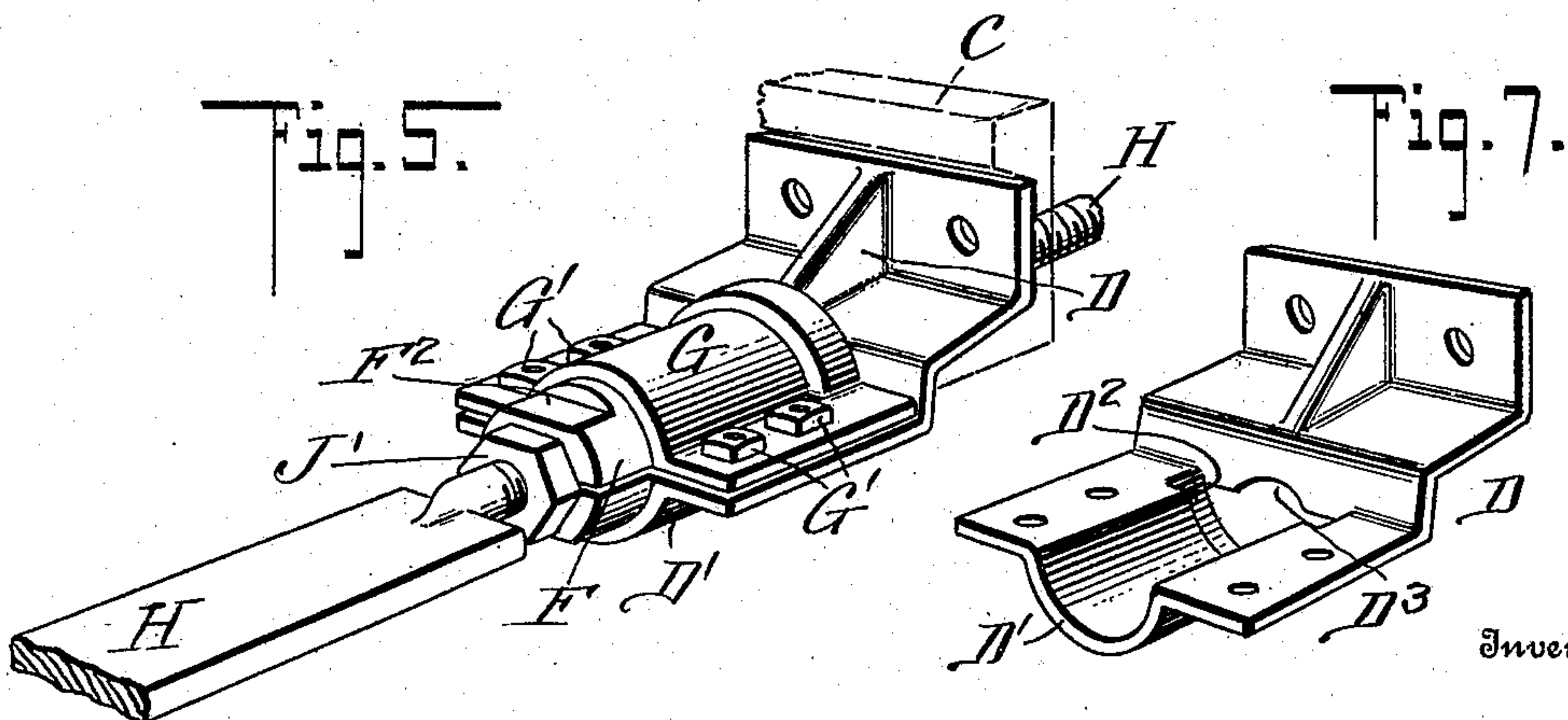
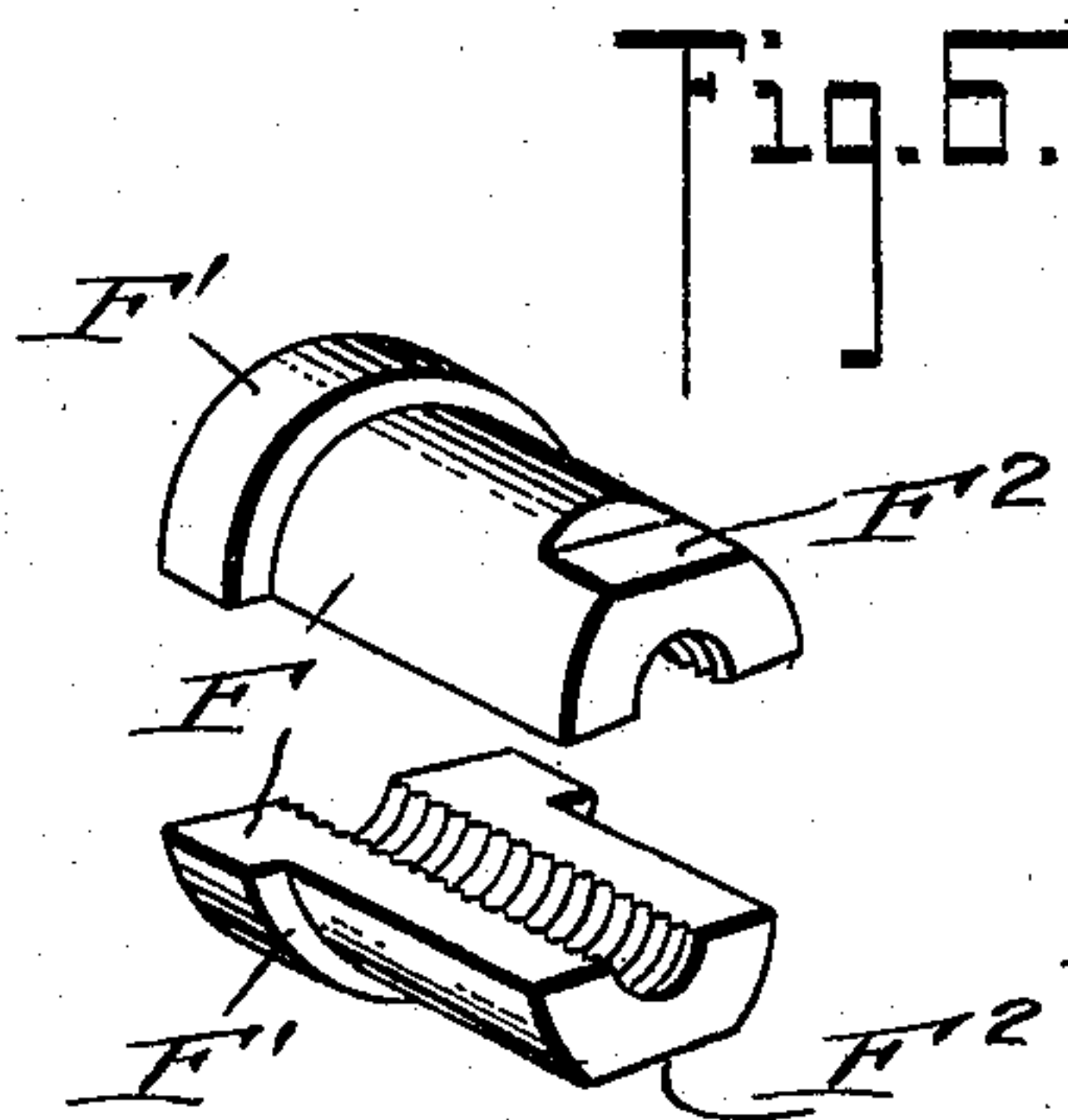
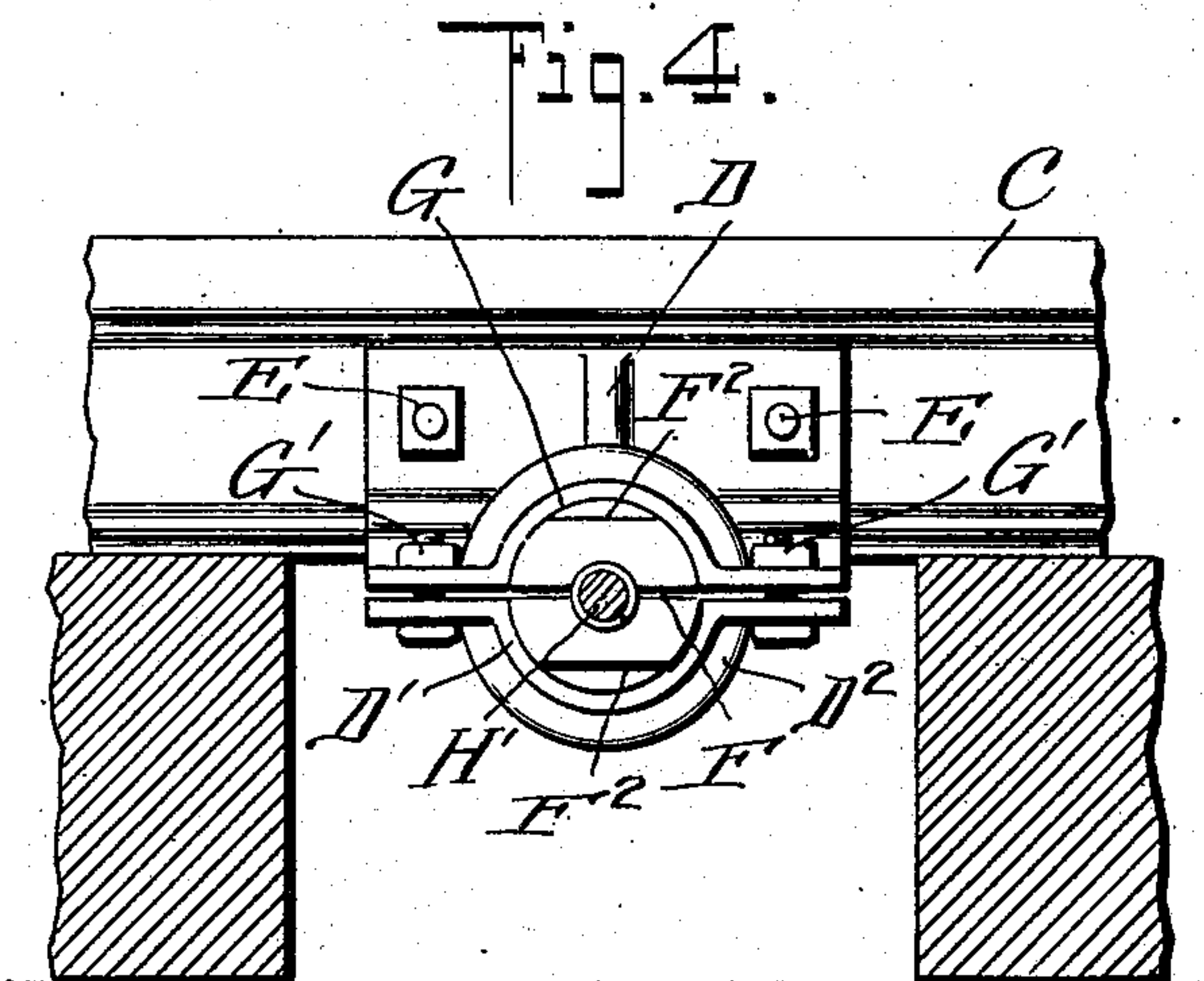
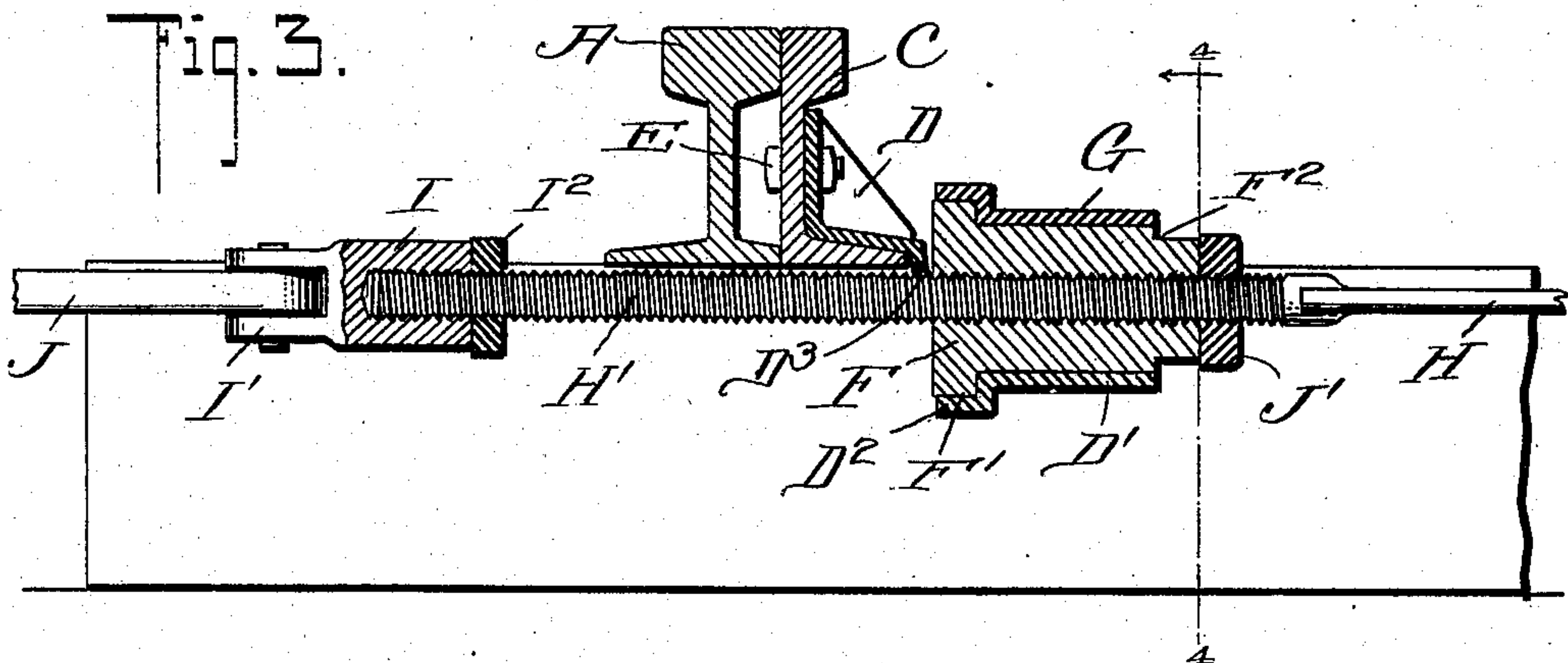
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UNITED STATES PATENT OFFICE.

JAMES E. LEWIS, OF STEELTON, PENNSYLVANIA.

CONNECTING-ROD FOR SWITCH-POINTS.

No. 900,750.

Specification of Letters Patent.

Patented Oct. 13, 1908.

Application filed November 12, 1907. Serial No. 401,843.

To all whom it may concern:

Be it known that I, JAMES E. LEWIS, a citizen of the United States, residing at Steelton, in the county of Dauphin and State of Pennsylvania, have invented a new and useful Improvement in Connecting-Rods for Switch-Points, of which the following is a specification.

This invention relates to connecting rods for switch points, the object being to provide an adjustable rod so that the throw of the switch can be readily adjusted, and one which will securely hold the points in their proper position.

Another object of my invention is to provide a rod which is so constructed that when attached to a switch-point the points can be adjusted to suit any gage track.

Another object of my invention is to provide very novel means for connecting the rod to the switch-point so that they can be thrown apart or drawn together as desired.

A further object of my invention is to provide a switch point with socket-members in which are mounted nuts through which the connecting rod passes, so that by turning the nuts in one direction the points will be drawn together and by turning the same in a reverse direction they will be thrown apart.

With these objects in view, the invention consists in the novel features of construction, combination and arrangements of parts, hereinafter fully described and pointed out in the claims.

In the drawings forming a part of this specification:—Figure 1 is a top plan view of a portion of the railroad track showing the application of my improved connecting bar. Fig. 2 is a section taken on the line 2—2 of Fig. 1. Fig. 3 is a section taken on the line 3—3 of Fig. 1. Fig. 4 is a section taken on the line 4—4 of Fig. 3. Fig. 5 is a detail perspective view of a portion of my improved rod showing it attached to a switch-point which is in section. Fig. 6 is a perspective view of my improved sectional nut detached. Fig. 7 is a perspective view of the socket plate carried by the switch-point.

In the drawings A indicates the main-rail, B the siding-rail and C the pivoted switch-point connecting the siding rail to the main rail. The main-rail being notched to receive the point as clearly shown in Fig. 1.

Secured to the inside of the point are socket-plates D which are angled to fit over the base and web of the points and are con-

nected thereto by bolts E which pass through the web, and securely lock the plates thereto. The plates are provided with a recessed portion D', in which are mounted sectional nuts F provided with a flange F' at one end which fits in the cut-out portion D² of the plate D so that it can be freely adjusted therein and yet be prevented from being moved longitudinally, the nut being locked therein by a curved plate G which is secured to the plate by a bolt G', the inner end of the nut F being cut away as shown at F² so that they can be readily turned with a wrench as will hereinafter be fully described.

The threaded rounded ends H' of a flat rod H extend through the nut in the plate and through the notches D³ formed in the plate D, and out through the semi-tubular portions D⁴ which register with openings formed in the point, and secured on the outer ends H' of the bar are sockets I provided with spaced apertured ears I' in which the switch operating rods J are pivotally mounted, the socket being locked thereon by a nut 12, and it will be seen that when the switch operating rods are moved, the points will be thrown opened and shut.

A locking nut J' is secured on the threaded ends H' of the rod H and are operated to engage the adjusting nut F and lock them in their adjusted position, and it will be seen that by loosening these nuts, and turning the adjusting nuts, the points can be thrown further apart or drawn together, as desired.

Similar journal-plates K are secured to the points as shown in Fig. 1 and are provided with adjusting nuts L, in which are mounted the threaded ends of a rod M for holding the points the required distance apart, it will be seen that when the rod H is adjusted, the rod M must likewise be adjusted.

From the foregoing description it will be seen that I have provided a very novel connecting rod for switch points which is so connected to the points and can be readily detached when desired, and one which can be adjusted so as to make the points fit exactly and one which is exceedingly simple and cheap in construction.

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

1. The combination with a switch point carrying socket plates, nuts mounted in said plates, and a connecting rod working in said nut, for the purpose described.

2. A device of the kind described comprising socket plates adapted to be connected to switch-points, nuts mounted in said socket-plates, a connecting rod working in said nuts, and means for locking said nuts, for the purpose set forth.

3. The combination with pivoted switch-points, of socket-plates secured to said points, sectional nuts mounted in said plates, and connecting rods having threaded ends working in said nuts, whereby said points can be adjusted, for the purpose set forth.

4. In a device of the kind described, the combination with pivoted switch-points, of socket-plates having angled portions fitting over the base and against the web of said points and secured thereto by bolts, nuts mounted in said plates, a connecting rod working in said nuts and locking nuts working on said connecting rod, adapted to engage said nut, for the purpose described.

5. In a device of the kind described, the combination with pivoted switch-points, of socket-plates and angled portions fitting over the base of said points and against the web

and bolted thereto, sectional nuts mounted in said plates, a connecting rod extending through said nuts carrying sockets at its ends adapted to be connected to switch-operating rods, means for securing said nuts in said socket-plates, and means for locking said nuts in their adjusted position, for the purpose described.

6. In a device of the kind described, the combination with switch-points, of socket-plates provided with angled portions secured over the base of the points and against the web, said sockets being provided with curved portion having a depression, of nuts provided with flanged ends mounted in said curved portion and depression, a plate for securing said nuts in said plates, a connecting rod extending through said nuts and points, and locking nuts working on said connecting rod adapted to engage said nuts, for the purpose described.

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Witnesses:

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HENRY G. POSEY.