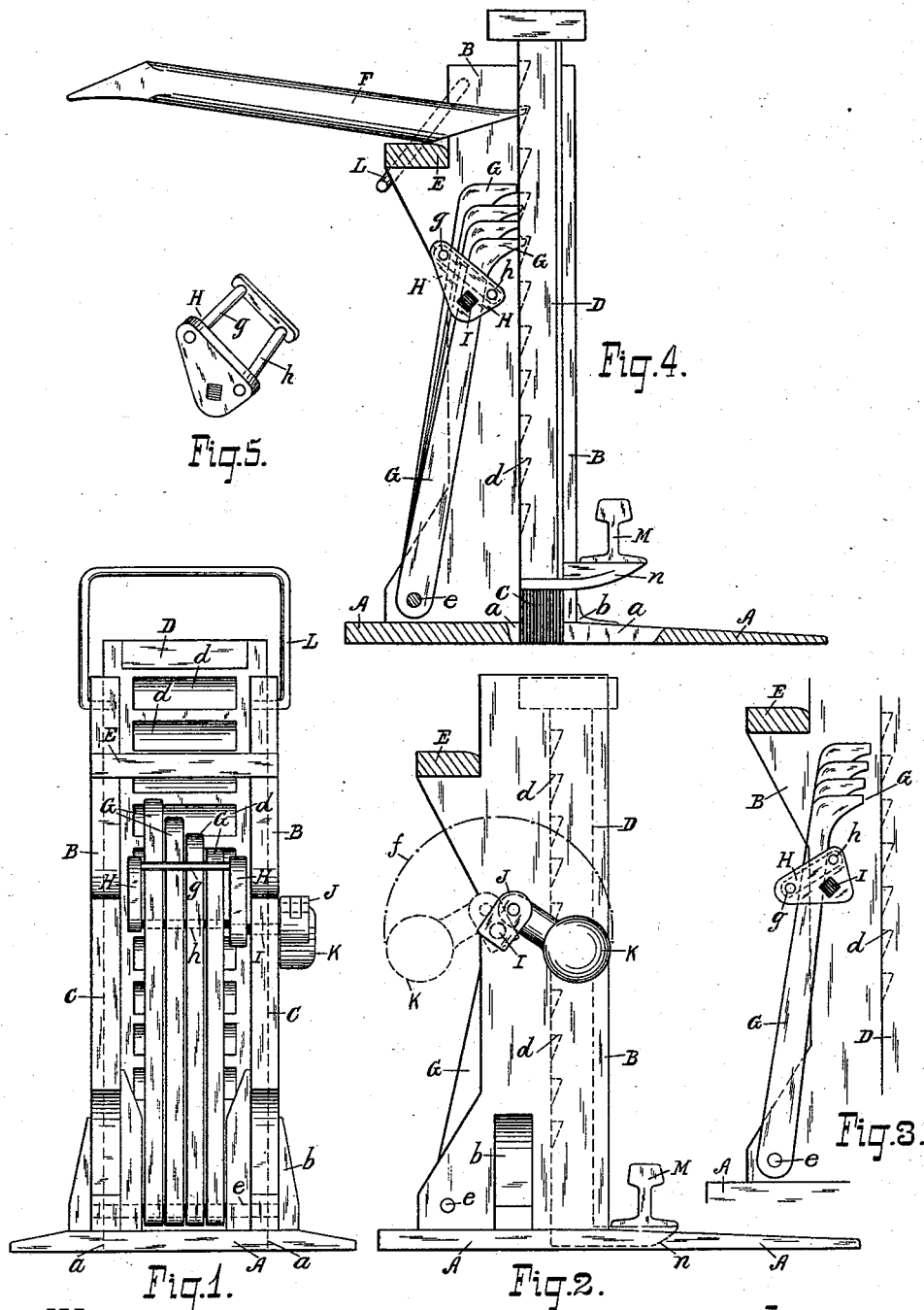


(No Model.)

J. HENRY.
LEVER TRACK JACK.

No. 491,049.

Patented Jan. 31, 1893.



Witnesses
A. Edmunds,
Jas. E. Edmunds

Inventor
John Henry
By P. J. Edmunds
Att'y

UNITED STATES PATENT OFFICE.

JOHN HENRY, OF ILDERTON, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS,
TO PHILIP A. HARDING AND DAVID SMITH, OF LONDON, CANADA.

LEVER TRACK-JACK.

SPECIFICATION forming part of Letters Patent No. 491,049, dated January 31, 1893.

Application filed May 4, 1892. Serial No. 431,848. (No model.)

To all whom it may concern:

Be it known that I, JOHN HENRY, a subject of the Queen of Great Britain, and a resident of Ilderton, in the Province of Ontario, Canada, have invented a certain new and useful Lever Track-Jack, of which the following is a full, clear, and exact description.

In the accompanying drawings, of this invention. Figure 1. is a front view, and Fig. 2. is a side view. Fig. 3. is a detailed side view of the socket bracket and dogs, showing the latter disengaged from the standard. Fig. 4. is a side view of this invention, the weight and upright at one side being removed, and a central section of the bed-plate being shown, in order to more clearly show the working parts when in operation. Fig. 5. is a detail perspective view of the pivotal socket bracket.

A, designates a bed-plate, formed with the opening, a.

B, B, designate uprights, rigidly secured to, or formed integral with bed-plate, A. The connection between the uprights, B, B, and bed-plate, A, is further strengthened by the braces, b, and in the adjacent sides of these uprights, B, B, grooves, C, are formed.

D, designates a sliding standard formed with the foot, n, which standard is slidingly supported in the grooves C, of the uprights, B, B; d, are recesses, formed in the standard, D, as shown.

E, is a fulcrum, secured to the uprights, B, B, on which the lever, F, rests, when engaging with the recesses, d, this fulcrum, E, also braces and assists in strengthening the uprights, B, B, at their upper ends.

G, G, designate dogs of varying lengths, and these dogs are pivoted on the pivot bolt, e.

H, is a socket arm, through which the dogs, G, extend.

I, is a shaft, which is supported perfectly free in one of the uprights, B, to the inner end of which shaft, I, the socket arm, H, is rigidly secured, and with this shaft, I, said socket arm, H, moves.

J, is a crank, which may be secured to, or it may be an extension formed integral with the shaft, I, to which crank, the weight, K, is pivotally secured.

L, is a handle, which forms a convenient

means for transporting this implement from one place to another; and M, is a railroad rail.

The opening, a, is formed in the bed-plate, A, to permit the standard, D, and foot, n, to be lowered therein, so that the upper face of the foot, n, will be about flush with the upper face of said bed-plate, in order to readily insert the bed-plate, A, and foot, n, underneath the rail. This opening, a, also permits the sand or gravel to be readily removed, to prevent it from interfering with the lowering of the standard, or the operation of the dogs. And dogs of varying length are used, in order to hold the standard and rail at the position to which they are adjusted, and to give a fine vertical adjustment of the rail, so as not to raise the latter higher than is absolutely required, in order to bring it up to the required height.

The action of the weight, K, and socket arm, H, through which the dogs, G, extend, is as follows;—This weight, K, is adjusted in the direction shown by dotted line, f, to the two positions shown in Fig. 2. and this weight, K, being connected with the socket arm, H, the latter is also adjusted to the positions corresponding thereto, the positions of the socket arm, H, being shown in Figs. 3 and 4. By adjusting the weight, K, to the position shown by solid line in Fig. 2. the dogs, G, and socket arm, H, will be adjusted as shown in Fig. 4. that is, with one of the dogs engaging with the recess in standard, D, to rigidly and safely hold the latter, at the elevation to which it may be adjusted; and by adjusting the weight, K, to the position shown by dotted line in Fig. 2. the socket arm and dogs are adjusted to the position shown in Fig. 3., that is disengaged from the recesses, d, in standard, D. In the former case, the upper side, g, of the socket arm, H, abuts against the back of the dogs to hold them, or lock them in contact with the recesses, d, in the standard, D, and in the latter case, the arm, g, prevents the dogs from falling down in a horizontal position, at the same time, the side, h, of the socket arm, H, prevents the dogs from accidentally engaging with the recesses, d, in the standard, D.

The operation of this invention is very simple and is as follows;—The bed-plate, A, is inserted between the ties under the rail, until

the rail, M, and foot, *n*, are in the position shown in Fig. 2.—The weight, K, is then adjusted to the position shown by solid line in Fig. 2. the lever, F, is then placed on the fulcrum, E, and the end engaged with the recesses, *d*, in the standard, D, as shown in Fig. 4. and by pressing down on, and lowering the outer end of said lever, F, the inner end and standard, D, will be raised, until the ties and rail, M, are raised to the proper height, the ties are then packed with sand and gravel, to hold them and the rail in this position, this packing of the ties with gravel eases the downward pressure, of the rail, M, on the foot, *n*, and the downward pressure of the standard, D, on the dogs, G, so that when the ties are properly ballasted the weight, K, may be readily adjusted to the position shown by dotted line in Fig. 2. and the socket arm and dogs to the position shown in Fig. 3. When adjusted

as just described, the standard, D, is lowered by its own weight, to the position shown in Fig. 2. ready to be used again where required.

Having thus described my invention, I claim;—

A lever track jack, consisting of the bed-plate, A, in which an opening, *a*, is formed, the uprights, B, B, having the grooves, C, formed therein, the sliding standard, D, having recesses, *d*, formed therein, and provided with a foot, *n*, in combination with the dogs, G, the socket arm, H, shaft, I, crank, J, and weight, K, substantially as shown and described, and for the purpose specified.

In testimony whereof I affix my signature in the presence of the two undersigned witnesses.

JOHN HENRY.

Witnesses:

P. J. EDMUNDS,
JAS. EDMUNDS.