J. M. Batchelor.

Lifting Jack.

No. 106,913. Patented Aug. 30, 1870.

Fig. 1.

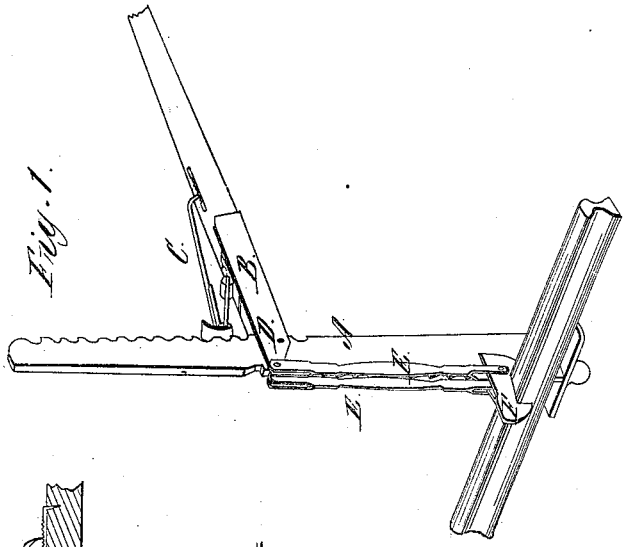


Fig. 3.

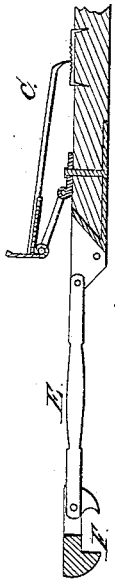


Fig. 4.

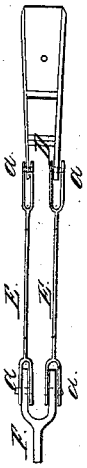
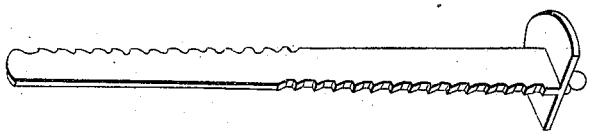


Fig. 5.

Fig. 2.



Witnesses:
William H Fulton
A G Lebrohe

Inventor:
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United States Patent Office.

JOSEPH M. BATCHELOR, OF FOXCROFT, MAINE.

Letters Patent No. 106,913, *dated August* 30, 1870.

IMPROVEMENT IN TRACK-LIFTER.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JOSEPH M. BATCHELOR, of Foxcroft, in the county of Piscataquis, in the State of Maine, have invented a new and useful Machine for the purpose of Raising Railroad-Track, and called a "Track-Lifter;" and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings which form a part of this specification, in which—

Figure 1 is a perspective view of the machine in operation;

Figure 2, perspective view of self-adjusting bar;

Figure 3, longitudinal vertical section of iron head of lever;

Figure 4, top view of iron portion of lever; and

Figure 5, top view of friction-brake or pawl.

A, fig. 1, is an upright self-adjusting bar.

B, a lever.

C, friction-brake or pawl.

D, fulcrum-bolt.

E E, rods.

F, grapple.

a a a a, fig. 4, show the manner of connecting rods to grapple and lever.

The machine operates substantially as follows:

Place the adjustable bar A between and with its toothed side close to one of the rails; pass the lever B down over the bar A, (having the friction-pawl C turned back upon the lever,) until the grapple F clutches the rail; then raise the lever B till the fulcrum-bolt D (figs. 1 and 4) engages the tooth in the bar. Now, by depressing the lever B, the rail will be raised, and the bar A will adjust itself to a hold on the rail till the lever B is again raised. The friction-pawl C will, by being thrown forward, hold the rail at any point between the teeth.

The machine complete weighs about forty pounds, and with it one man can do the labor which has heretofore required from two to five men to perform.

The lifter never throws the track out of line. The pry always does.

What I claim as my invention, and desire to secure by Letters Patent, is—

The arrangement of the lever B, rods E E, grapple F, and the friction-brake or pawl C, or their equivalents, in connection with the self-adjusting oscillating ratchet-fulcrum and bearer-bar A, or its equivalent, operating substantially as and for the purpose set forth.

JOSEPH M. BATCHELOR.

Witnesses:

W. H. FULTON,

JOHN F. ARNOLD.