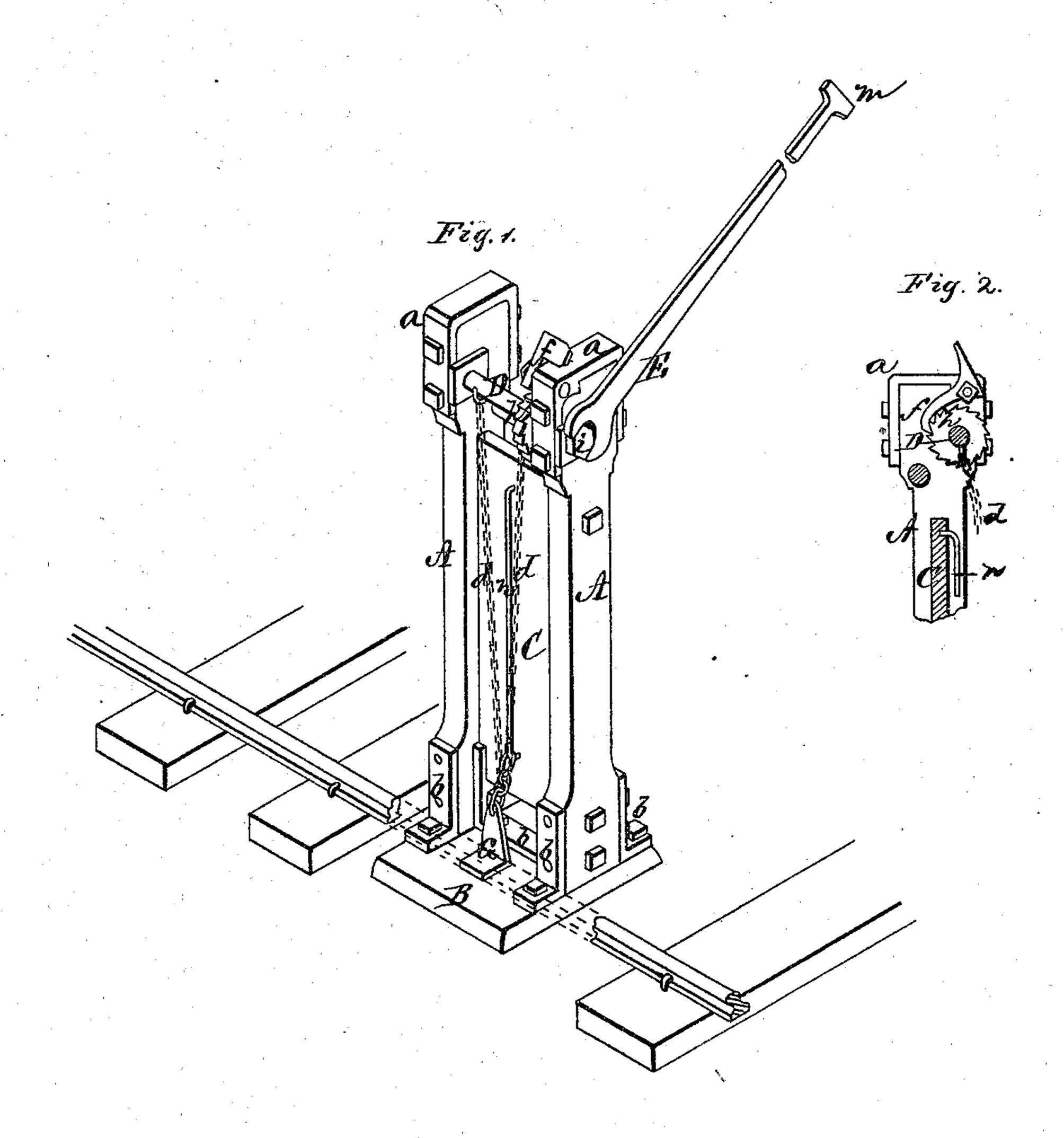
G. J. KINZEL. Track-Lifters.

No. 140,713.

Patented July 8, 1873.



Witnesses:

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United States Patent Office,

GEORGE J. KINZEL, OF KNOXVILLE, TENNESSEE.

IMPROVEMENT IN TRACK-LIFTERS.

Specification forming part of Letters Patent No. 140,713, dated July 8, 1873; application filed June 14, 1873.

To all whom it may concern:

Be it known that I, George J. Kinzel, of Knoxville, in the county of Knox and in the State of Tennessee, have invented certain new and useful Improvements in Track-Lifter; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a track-lifter, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view of my entire machine, and Fig. 2 is a cross-section through

the upper part thereof.

A A represent two upright posts, of any suitable dimensions, the top ends of which are bound with iron stirrups a a and bolted firmly together. The bottom or lower ends of the posts are made fast to a foot-piece, B, by angle-irons b b bolted to the upright posts and foot-board. Between the two posts A A is a board or back, C, extending for a suitable distance upward from near the foot-board. D represents an iron shaft or cylinder placed in suitable metal boxes in the upper ends of the posts A A, and to this shaft two chains, d d, are attached, said chains having a heavy hook,

G, attached to their lower ends. On the shaft or cylinder D is a ratchet-wheel, h, close to the inner side of one of the posts A, and on said post is pivoted a pawl, f, to engage with the ratchet-wheel. On the extreme end of the shaft or cylinder outside of the post A is a six-square nut, i, upon which is placed a wrench, E, for working the shaft to raise the hook G. On the other end of the wrench-lever is formed a tamping-bar, m. The chains d d and hook G are guided by a loose link made fast to the hook and sliding on a rod, n, attached to the back C.

This lifter may be used for raising a railroad track, or for any other purpose of the same character to which it may be applied.

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

1. The combination of the chains d d with hook G and guide-rod n, for the purposes set forth.

2. The combination of the frame A B C, shaft D, lever E, chains d d, hook G, guidered n, ratchet-wheel h, and pawl f, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 15th day of May, 1873.

G. J. KINZEL.

Witnesses:

A. N. MARR, JOHN W. MOSES.