

G. W. LEEK.  
CAR-MOVERS.

No. 194,828.

Patented Sept. 4, 1877.

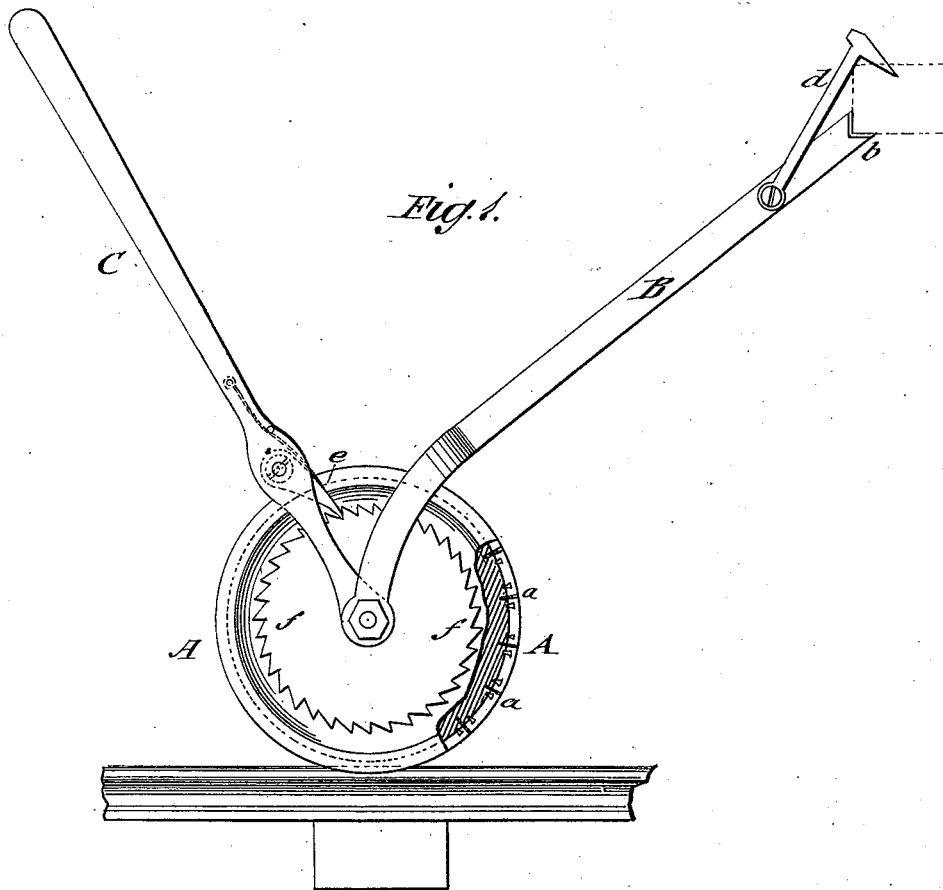


Fig. 1.

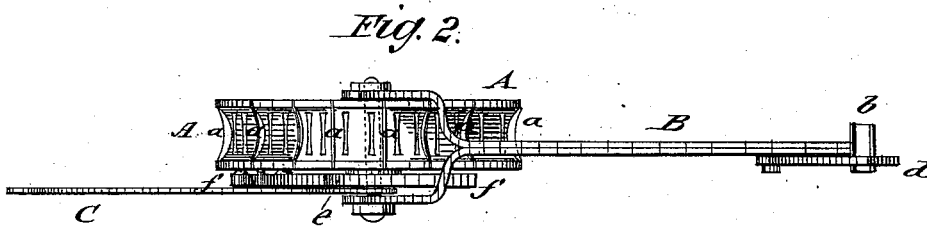


Fig. 2.

WITNESSES:  
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# UNITED STATES PATENT OFFICE.

GEORGE W. LEEK, OF TERRE HAUTE, INDIANA.

## IMPROVEMENT IN CAR-MOVERS.

Specification forming part of Letters Patent No. 194,828, dated September 4, 1877; application filed June 11, 1877.

*To all whom it may concern:*

Be it known that I, GEORGE W. LEEK, of Terre Haute, in the county of Vigo and State of Indiana, have invented a new and Improved Car-Mover, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a side elevation, with knife-wheel partly in section, of my improved car-mover; and Fig. 2 a top view of the same.

Similar letters of reference indicate corresponding parts.

The invention is intended to provide an easily-operated yet powerful device for moving cars on the track; and it consists of a wheel with lateral concaved knives, driven into the grooved circumference and biting into the rail-head, said wheel turning, by a center pivot, in a forked lever-arm, that is secured to the platform of the car.

The knife-wheel is turned and car moved by a pivoted spring-pawl of a hand-lever engaging a fixed side ratchet-wheel of the knife-wheel.

Referring to the drawing, A represents the knife-wheel, which is made of suitable diameter, and with a grooved or concaved circumference, that is provided with a number of lateral knives, *a*, set rigidly at suitable distances from each other into the concaved circumference.

The knives *a* are also slightly concaved to correspond to the head of the rail, the width of the wheel at the circumference being also made to conform to the size of the rail-head.

The knife-wheel A revolves by a fixed cen-

ter pivot in the forked ends of a lever-arm, B, whose end rests by an angular seat, *b*, against the lower corner of the car-platform, and is secured thereto by a pivot-dog, *d*, that is slightly driven into the wood of the platform.

A hand-lever, C, swings on the pivot-shaft of the knife-wheel, and engages, by a pivoted spring-pawl, *e*, a ratchet-wheel, *f*, keyed to the pivot-shaft of the wheel, or cast in one piece with the wheel. The forward motion of the hand-lever gives a purchase on the ratchet, which thereby turns the knife-wheel, that bites, by the lateral knives, into the head of the rail, and transmits thereby motion to the car. The return motion of the hand-lever passes the pawl back over the ratchet, so as to engage the same again by the forward motion of the hand-lever.

The car or cars are thus moved with ease by this simple and effective device to any point on the track or to the side track, as required.

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

A car-mover, consisting of the knife-wheel A, having lateral concaved knives *a* in its grooved circumference, the ratchet-wheel on the same shaft, the forked lever-arm B, and the hand-lever C, having spring-pawl *e*, all as shown and described, for the purpose specified.

GEORGE W. LEEK.

Witnesses:

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