2 Sheets—Sheet 1.

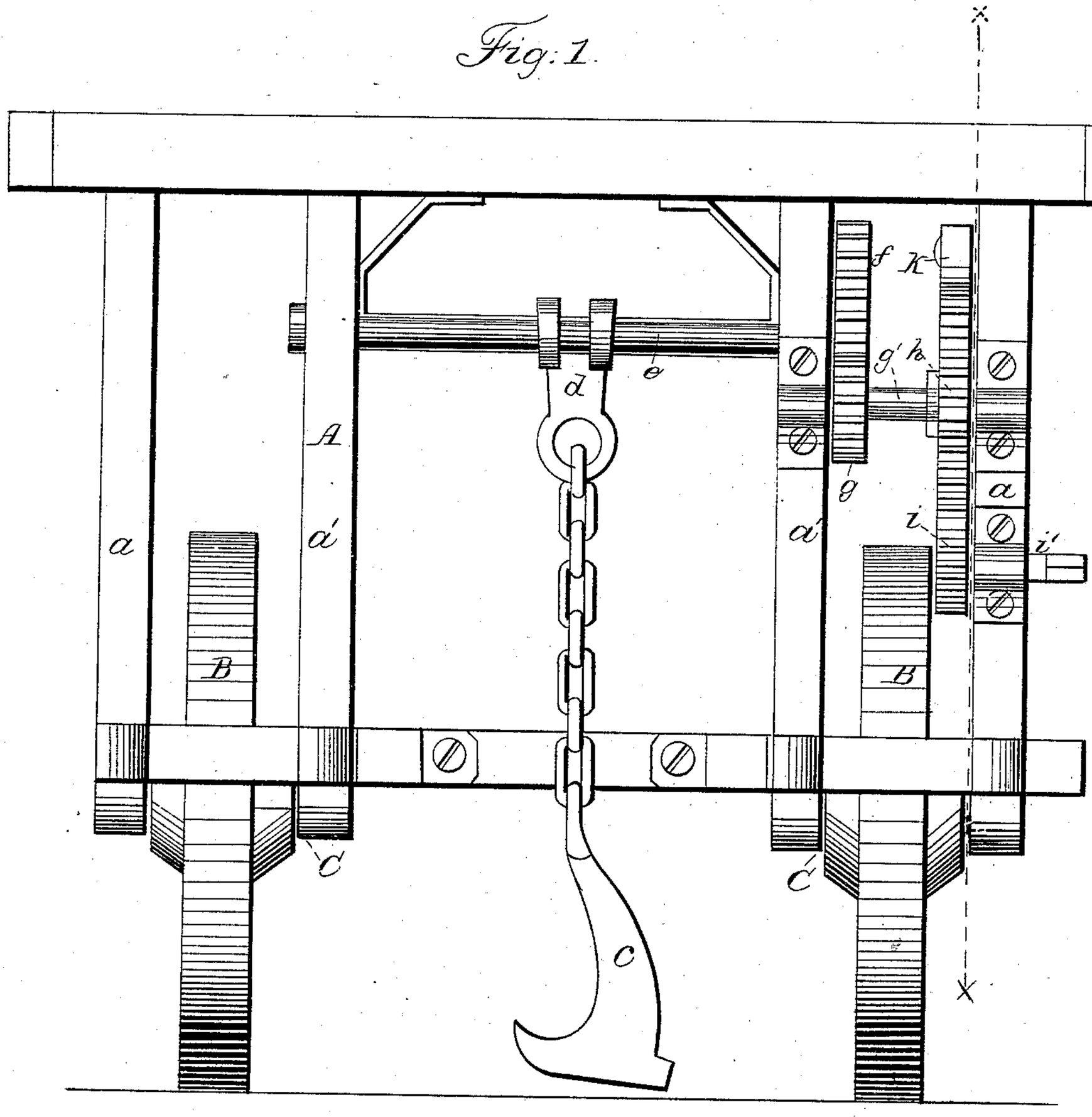
H. PENNEPACKER.

Car Truck.

No. 39,745.

Patented Sept. 1, 1863.

Fig: 1.



Witnesses:

J. W. Coombs

G. W. Reed

Inventor:

Henry Pennepacker

per Munn & Co

Attys

2 Sheets—Sheet 2.

H. PENNEPACKER.

Car Truck.

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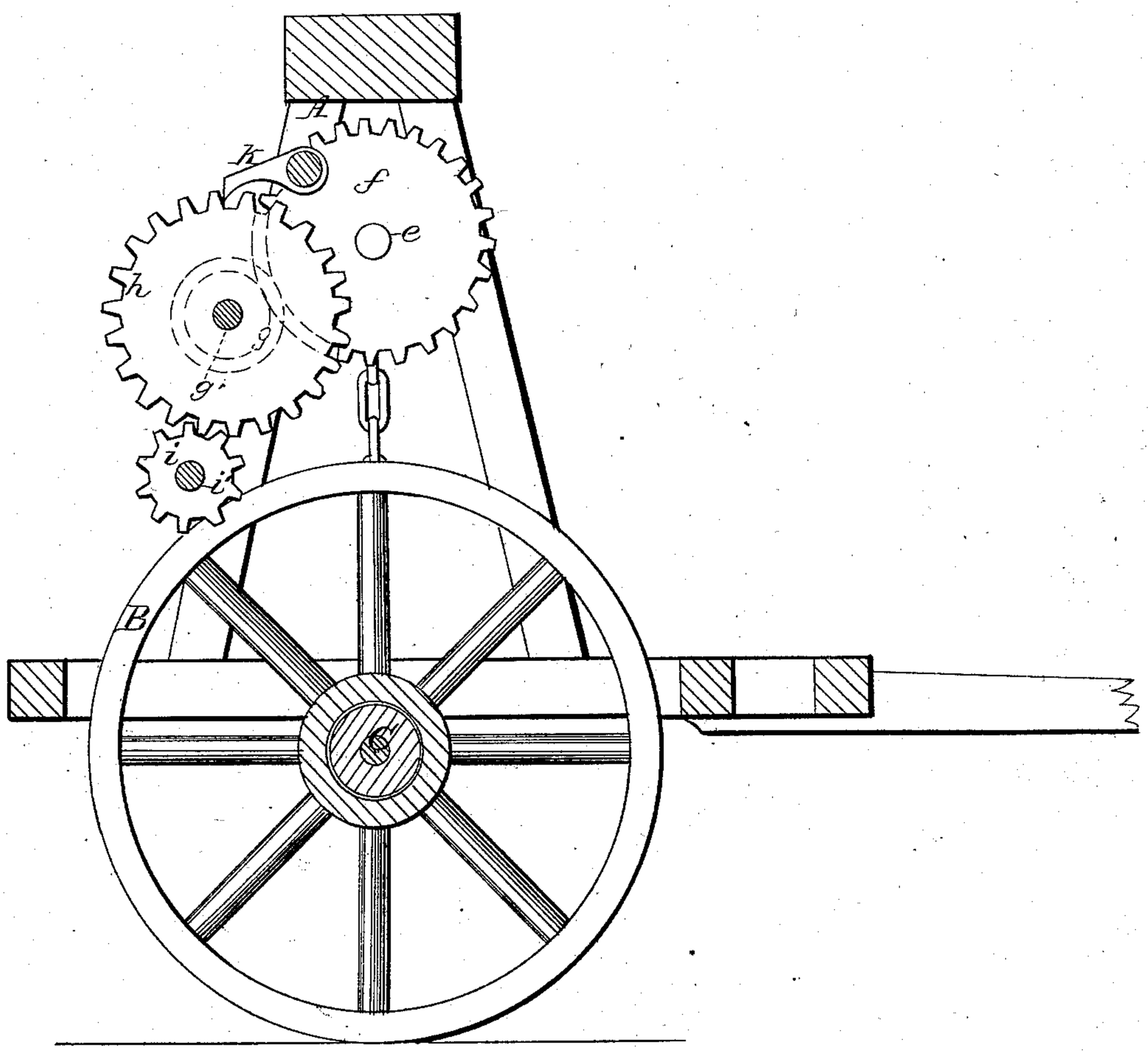
Fig. 2.



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UNITED STATES PATENT OFFICE.

HARMAN PENNEPACKER, OF KIMBERTON, PENNSYLVANIA.

IMPROVEMENT IN HOISTING APPARATUS.

Specification forming part of Letters Patent No. **39,745**, dated September 1, 1863.

To all whom it may concern:

Be it known that I, HARMAN PENNEPACKER, of Kimberton, in the county of Chester and State of Pennsylvania, have invented a new and useful Improvement in Trucks; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a rear elevation of my invention. Fig. 2 is a longitudinal vertical section of the same.

Similar letters of reference in both figures indicate corresponding parts.

The object of this invention is to produce a simple device for the purpose of raising rocks or other heavy articles and hauling them from one place to another.

To enable others skilled in the art to make and use my invention, I will proceed to describe it.

A represents a frame, built of timber or other suitable material of sufficient strength for the work to be accomplished. This frame is supported by the axles C of wheels B B, and each of the axles has two bearings—one on each side of the hub, in standards *a a'*—so that the full strength of the axle is preserved and the truck is enabled to carry a heavy load without danger of snapping an axle.

The rock or other article to be hauled is suspended from a chain, which is provided with two hooks, *c d*, one to take hold of the rock or other article and the other to catch on a shaft, *e*, which has its bearings in suitable boxes in the upper part of the truck-frame between the standards *a'*. To one end of this shaft a cog-wheel, *f*, is firmly keyed, and this cog-wheel gears into a pinion, *g*, on a shaft, *g'*, which has its bearings in boxes on the standards *a a'*, and which carries a cog-wheel, *h*, that gears into a pinion, *i*, on the shaft *i'*, to which a rotary motion can be imparted by by means of a crank or winch secured to its square end. This winch is at such a distance from the ground that it can readily be reached and operated by a man standing on the ground. The truck is driven over the rock or other article to be raised, the hook *c* is attached to said article, and the winch is turned. The chain is secured to the shaft *e*, so that it will wind up on the same, and the rock or other article will be raised, and it can now be conveniently hauled to any place. A pawl, *k*, catching in one of the cog-wheels, prevents the shaft *e* turning backward and keeps the weight suspended in the air. For very heavy work the shaft *e* is provided with two sets of gearing—one on each side of the trunk frame—and two winches are provided, whereby the operation of raising the rock or other article is considerably facilitated.

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

The arrangement of the standards *a a'* in the truck-frame A, forming bearings on the outside of the hub of the wheels B B, in combination with the shaft *e* and gear *f g h i*, all constructed and operating in the manner and for the purpose herein shown and described.

HARMAN PENNEPACKER.

Witnesses:

ADAM PICKEL,

A. B. THOMPSON.