

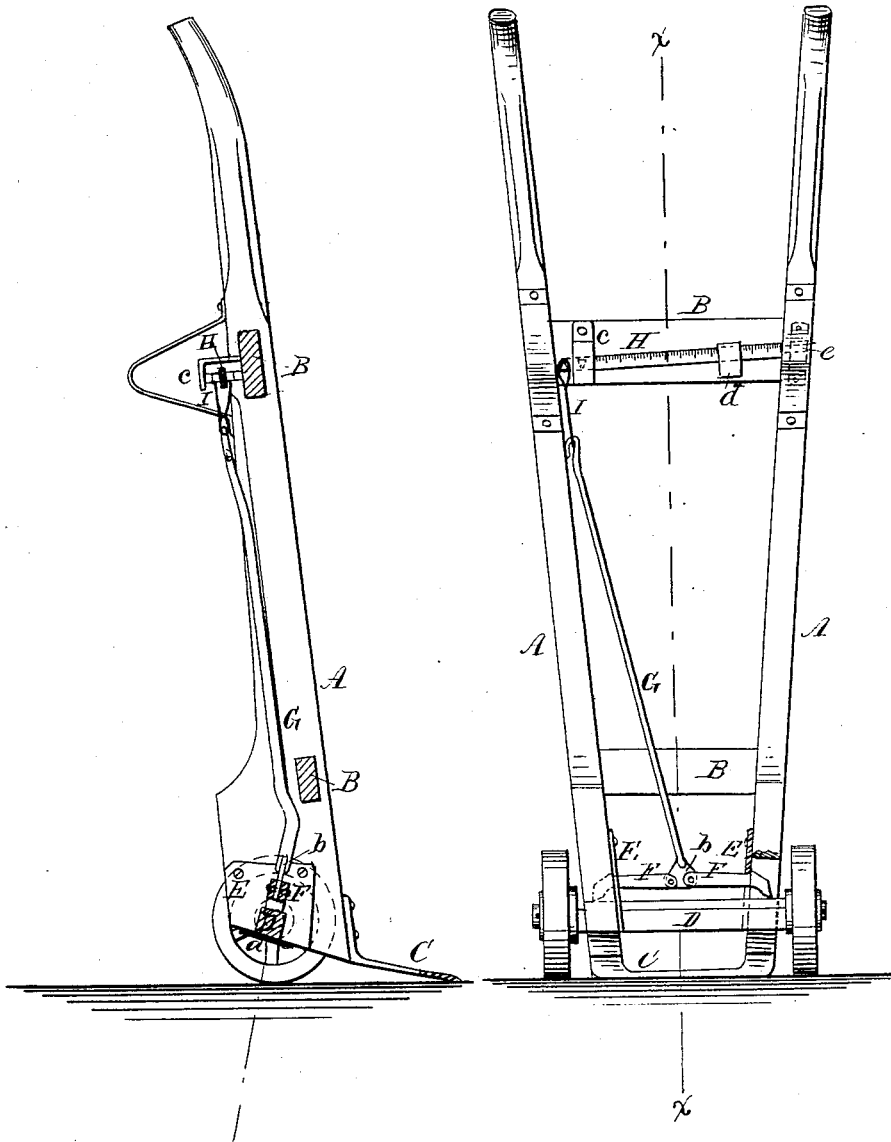
D. A. BEAM.
WEIGHING ATTACHMENT FOR HAND-TRUCKS.

No. 194,983.

Patented Sept. 11, 1877.

Fig. 1

Fig. 2



WITNESSES:

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UNITED STATES PATENT OFFICE.

DANIEL A. BEAM, OF NEWARK, NEW JERSEY.

IMPROVEMENT IN WEIGHING ATTACHMENTS FOR HAND-TRUCKS.

Specification forming part of Letters Patent No. **194,983**, dated September 11, 1877; application filed July 13, 1877.

To all whom it may concern:

Be it known that I, DANIEL A. BEAM, of Newark, in the county of Essex and State of New Jersey, have invented a new and Improved Combined Truck and Scale, of which the following is a specification:

Figure 1 is a side elevation, in section, on line *xx* in Fig. 2. Fig. 2 is a rear view.

Similar letters of reference indicate corresponding parts.

This invention consists in the combination of scale-levers and a scale-beam with an ordinary two-wheeled hand-truck having an axle fitted in slotted bearings of the truck-frame, so as to enable the latter to have a vertical motion relatively to the axle when weight is applied.

In the drawing, A A are the sides of the truck, which are connected by the usual cross-bars B and iron lifting-piece C. The side pieces are slotted at their lower ends to receive the axle D, which is prevented from slipping out of the slots by plates *a*. Upon the inner surface of the side pieces slotted plates E are secured, which serve the double purpose of guiding the axle D and of a fulcrum for the levers F, which levers are notched to receive the edge of the plates, and are bent downward, and beveled to an edge where they come into contact with the axle. The inner ends of their levers are slotted to receive a plate, *b*, which is attached to the end of the rod G. Pins pass through the ends of the levers, and through elongated holes in the plate *b*.

A scale-beam, H, is pivoted in a bracket, *c*, that is attached to the upper cross-bar B, and is connected with the rod G by a link, I. The scale-beam is provided with the usual weight *d*, and its motion is limited by the strap *e*.

Instead of a weighted scale-beam a spring-balance may be employed, to indicate the weight carried by the truck, and the improvement may be modified in various ways. Therefore I do not confine myself to the exact form herein shown and described.

The invention is mainly designed for use where an approximation to the weight of several packages is required, when it would be impossible to weigh each package accurately upon regular scales.

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

1. The combination of the levers F, rod G, and a suitable scale-beam or weighing device, with a truck-body having slotted side pieces, and an axle, D, seated therein, as and for the purpose set forth.

2. The levers F, rod G, and scale-beam H, in combination with a truck having the slotted side pieces A, slotted plates E, and axle D, substantially as shown and described.

DANIEL A. BEAM.

Witnesses:

GEO. M. HOPKINS,
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