No. 884,459. PATENTED APR. 14, 1908.

E. J. BRICKER.

COMBINED TRUCK, SCALE, AND BAG HOLDER.

APPLICATION FILED JULY 13, 1907.

Fig. 1

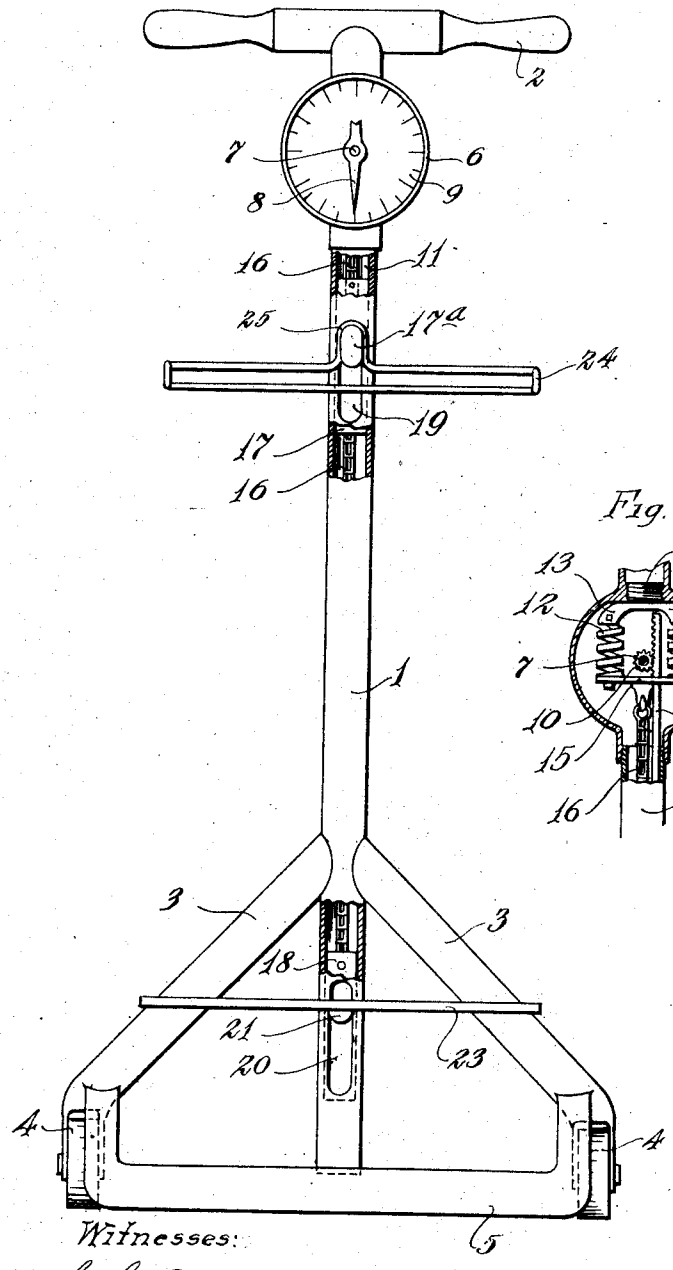


Fig. 2

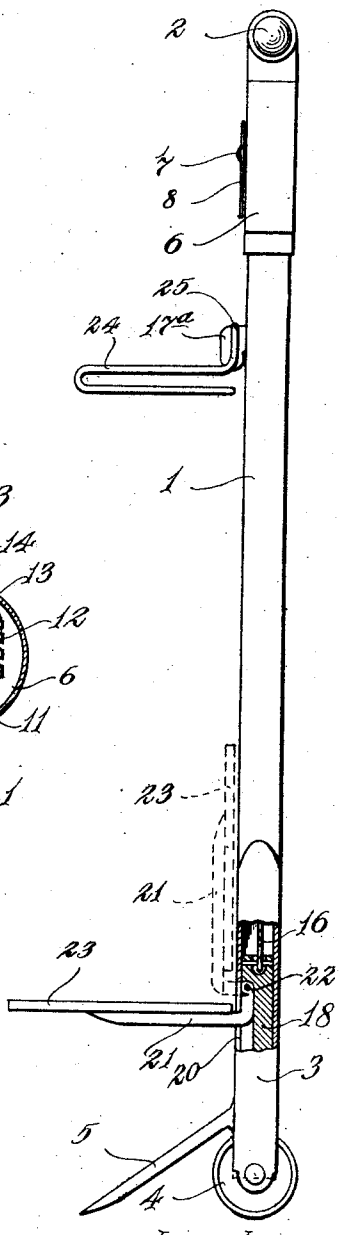


Fig. 3

Witnesses:

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UNITED STATES PATENT OFFICE.

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COMBINED TRUCK, SCALE, AND BAG-HOLDER.

No. 884,459. Specification of Letters Patent. Patented April 14, 1908.

Application filed July 13, 1907. Serial No. 383,635.

To all whom it may concern:

Be it known that I, EDWARD J. BRICKER, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in a Combined Truck, Scale, and Bag-Holder; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has for its object to provide an improved device in the nature of a combination truck, scale and bag holder, and to this end it consists of the novel devices and combinations of devices hereinafter described and defined in the claims.

The invention is illustrated in the accompanying drawings, wherein like characters indicate like parts throughout the several views.

Referring to the drawings, Figure 1 is a view in front elevation with some parts broken away, showing the improved combination truck, scale and bag holder. Fig. 2 is a side elevation of the same; and Fig. 3 is a detail partly in elevation and partly in vertical section, showing the scale actuating connections.

The frame of the device comprises a tubular column or standard 1, which at its upper end is provided with a transverse hand bar 2, and near its lower portion is provided with downwardly diverging legs 3 which are also preferably tubular and to the bifurcated ends of which are journaled small truck wheels 4. A transverse yoke 5 connects the end portions of the legs 3 and is so located that when turned into engagement with the floor it will coöperate with the wheels 4 to support the column 1 in a vertical position. A circular casing 6 is interposed in the hollow column 1 near the upper end thereof, and mounted in this casing at the axis thereof is a small shaft 7 which, at its outer end, is provided with a pointer 8 that works over a scale dial 9 secured to the front face of the case 6. Within the casing the shaft 7 is provided with a small spur pinion 10 that meshes with a rack 11, which rack is connected for movements with the scale platform, presently to be described.

The scale springs 12, of which there are preferably two, are attached at their upper ends to depending arms 13 of an anchoring plug 14, which latter, as shown, is screwed into that portion of the column 1 which is connected to the top of the case 6. The lower ends of the springs 12 are attached to an equalizing bar 15, to the intermediate portion of which, as shown, the upper end of a chain 16 is attached, as best shown in Fig. 3. This chain 16 is extended through and rigidly attached to a tubular upper plunger 17 and to a solid lower plunger 18, which plungers are adapted to slide freely within the tubular standard 1. The plunger 17 is located but slightly below the case 6 and is provided with a projecting head 17^a that works through a slot 19 in the column 1. The plunger 18 is located in the lower end portion of the column 1 and is arranged to work in the vicinity of a slot 20 formed in the lower end portion of the tubular column 1. A crooked arm 21 works through the slot 20 and the short laterally bent end thereof is pivotally connected at 22 to the lower plunger 18 and is adapted to engage with the reduced depending end of said plunger when turned into the position shown in Figs. 1 and 2. To the outer end of the arm 21 a scale platform 23 is rigidly secured. A bag holder formed by a bent wire or light rod 24 is applied to the projecting head 17^a of the upper plunger 17. This bag holder 24 is preferably detachable, and is shown as provided at its intermediate rear portion with a U-shaped crook or crotch 25 that is adapted to be frictionally engaged with a groove in said head 17^a.

When the device is set as shown in Figs. 1 and 2, it is adapted for use as a combined scale and bag holder, and at such time the lower end of the bag will rest upon the scale platform 23, while the upper end of the bag will be held open by the bag holder 24 around which it is stretched, and by which it is spring pressed open and frictionally held. As is evident, the weight of the bag and the material therein will force the chain 16, plungers 17 and 18 and scale platform 23 downward against the tension of the scale springs 12. The depending end of the rack 11 is preferably attached to the upper plunger 17 but may be attached to any part which is forced downward by the weight of the filled bag against the tension of the springs 12. Hence, it is evident that when the bag is moved downward against the tension of the springs 12, the weight thereof will be gaged by the position of the pointer 8 on the scale

dial 9. After the weight of the filled bag has been noted, it may be wheeled away by the device which is then used as a truck, which runs upon the truck wheels 4 when the column 1 is turned backward into an oblique position.

When the device is to be used as a truck for carrying other materials than bags which have been weighed, the bag holder 24 should be removed and the scale platform 23 should be turned as shown by dotted lines in Fig. 2 against the column 1, so that it will then serve as a bottom board or support to the truck and will coöperate with the yoke 5 to hold boxes or other articles placed thereon, very much after the manner of an ordinary truck.

The device described, while of small cost is, as is evident, capable of quite a large range of work, and is generally efficient for the several purposes had in view.

What I claim is:

1. The combination with a truck-frame having truck wheels at its lower end and a hand-piece at its upper end and provided with a tubular column, of a scale applied to the said tubular column and comprising a scale platform and yielding devices contained in said hollow column and supporting said platform, substantially as described.

2. The combination with a truck-frame having truck wheels at its lower end and a hand-piece at its upper end and provided with a tubular column, of a scale applied to the said tubular column and comprising a scale platform, yielding devices contained in said hollow column for supporting said platform, and a bag holder connected for movements with said scale platform, substantially as described.

3. The combination with a truck-frame comprising a hollow column with a hand-piece at its upper end and diverging legs at its lower portion, of truck wheels journaled to said legs, a scale platform and a bag holder, a yielding connection in said hollow column supporting said platform and bag holder, and a weight indicator subject to said yielding connection, substantially as described.

4. The combination with a hollow column 1 having a hand-piece 2 at its upper end and provided at its lower portion with diverging legs 3, of truck wheel 4 journaled to the ends of said legs 3, a yoke 5 connecting the ends of said legs 3 and coöperating with said wheels to support said column in an upright position, a spring supported scale connection working within said hollow column, and a scale platform pivotally supported by said spring supporting connection and movable to and from a position at an angle to said column, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

EDWARD J. BRICKER.

Witnesses:
H. D. KILGORE,
MALIE HOEL.