

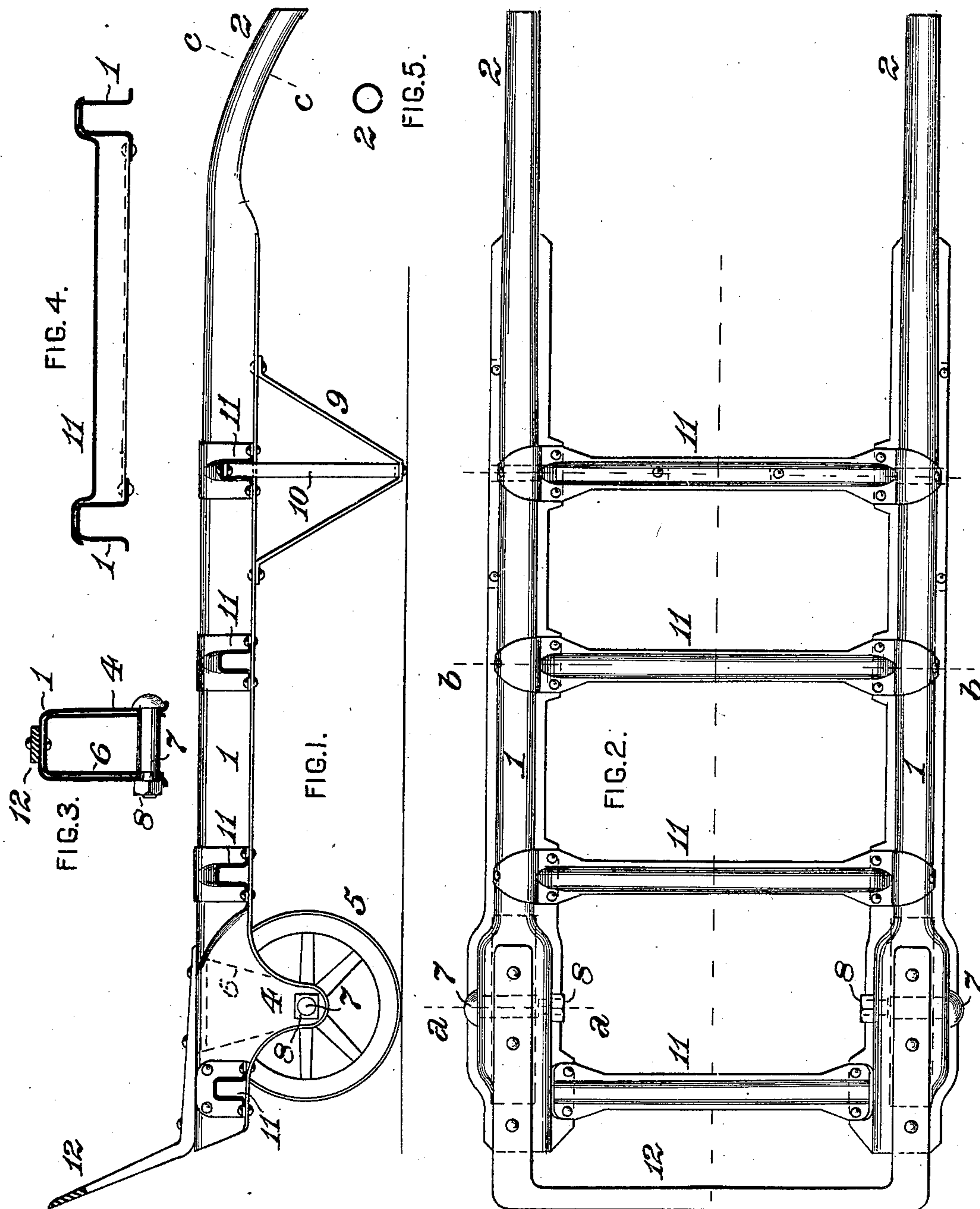
No. 669,200.

Patented Mar. 5, 1901.

B. HASKELL.  
WAREHOUSE TRUCK.

(Application filed Sept. 25, 1900.)

(No Model.)



WITNESSES:

James C. Heron.  
S. R. Bell.

INVENTOR,

Frederick Haskell,  
by J. Howard Bell,  
Att'y.



# UNITED STATES PATENT OFFICE.

BRODERICK HASKELL, OF SAGINAW, MICHIGAN.

## WAREHOUSE-TRUCK.

SPECIFICATION forming part of Letters Patent No. 669,200, dated March 5, 1901.

Application filed September 25, 1900. Serial No. 31,073. (No model.)

*To all whom it may concern:*

Be it known that I, BRODERICK HASKELL, of Saginaw, in the county of Saginaw and State of Michigan, have invented a certain new and useful Improvement in Warehouse-Trucks, of which improvement the following in a specification.

The object of my invention is to provide a hand-truck for the transportation of goods and material in and about warehouses, docks, railroad freight-stations, &c., which shall embody to a substantial extent the advantages of strength and lightness of construction and which can be constructed at comparatively slight cost by ordinary mechanics.

The improvement claimed is hereinafter fully set forth.

In the accompanying drawings, Figure 1 is a vertical longitudinal central section through a warehouse-truck, illustrating an embodiment of my invention; Fig. 2, a plan or top view of the same; and Figs. 3, 4, and 5, transverse sections at the lines *a a*, *b b*, and *c c*, respectively, of Figs. 1 and 2.

In the practice of my invention I form from sheet-steel or other suitable metal, by pressing or bending in proper dies or formers, two side frame members 1 1, which are at their front ends and for the major part of their length of inverted-U or channel section and are turned downwardly and into cylindrical form at and near their rear ends to form handles 2 2. Each of the side frame members 1 is widened at and for a short distance in rear of its front end, and its vertical webs are extended downwardly to pass on each side of one of the wheels 5, upon which the forward end of the truck is supported and form bearing-arms 4 therefor. The bearing-arms are each braced and stiffened by a strengthening-plate 6, which is bent into form in transverse section corresponding with the side member and is riveted thereto. The wheels 5 are journaled on bolts 7, which pass through the side members and strengthening-plates and are secured in position by nuts 8. Ground-supports 9, formed of metal bars or rods or, if preferred, of pressed metal of channel-section bent into V form, are riveted to the side frame members in advance of the handles 2 and serve to support the rear end of the truck when standing. Diagonal braces 10 extend from the ground-supports to one of

the cross-beams 11, below which they are located. The side frame members are connected by cross-beams 11, which are of inverted-U or channel section, substantially similar in form to that of the side frame members, between which the vertical webs of the cross-beams fit, and the horizontal webs of the cross-beams extend over and are riveted to those of the side frame members. A nose-bar 12, having a comparatively thin front edge for insertion under boxes, &c., which are to be moved, extends across the front end of the truck and is riveted to the side frame members at and near their front ends.

The construction, substantially as herein set forth, is strong, light, and durable for any desired and determined carrying capacity. The several members, other than the wheels, wheel-bolts, and nose-bar, may be readily and economically formed of pressed steel, and there is no tendency to looseness or breakage of their connections.

I claim as my invention and desire to secure by Letters Patent—

1. In a warehouse-truck, the combination of two metal side frame members, pressed or bent into U or channel section for the major portion of their length, and widened and downwardly extended adjacent to their forward ends, strengthening-plates fitting within and secured to the widened and downwardly-extended portions of the frame, supporting-wheels journaled in said portions and stiffening-plates and rotatable between the latter, and pressed or bent metal cross-beams connecting the side frame members.

2. In a warehouse-truck, the combination of two metal side frame members pressed or bent into U or channel section for the major portion of their length, supporting-wheels journaled in the forward portions of the side frame members, and pressed or bent metal cross-beams, of channel-section, having the ends of their vertical webs fitting against the inner vertical webs of the side frame members and having their horizontal webs secured to the horizontal webs of the side frame members.

BRODERICK HASKELL.

Witnesses:

J. SNOWDEN BELL,  
CLARENCE A. WILLIAMS.