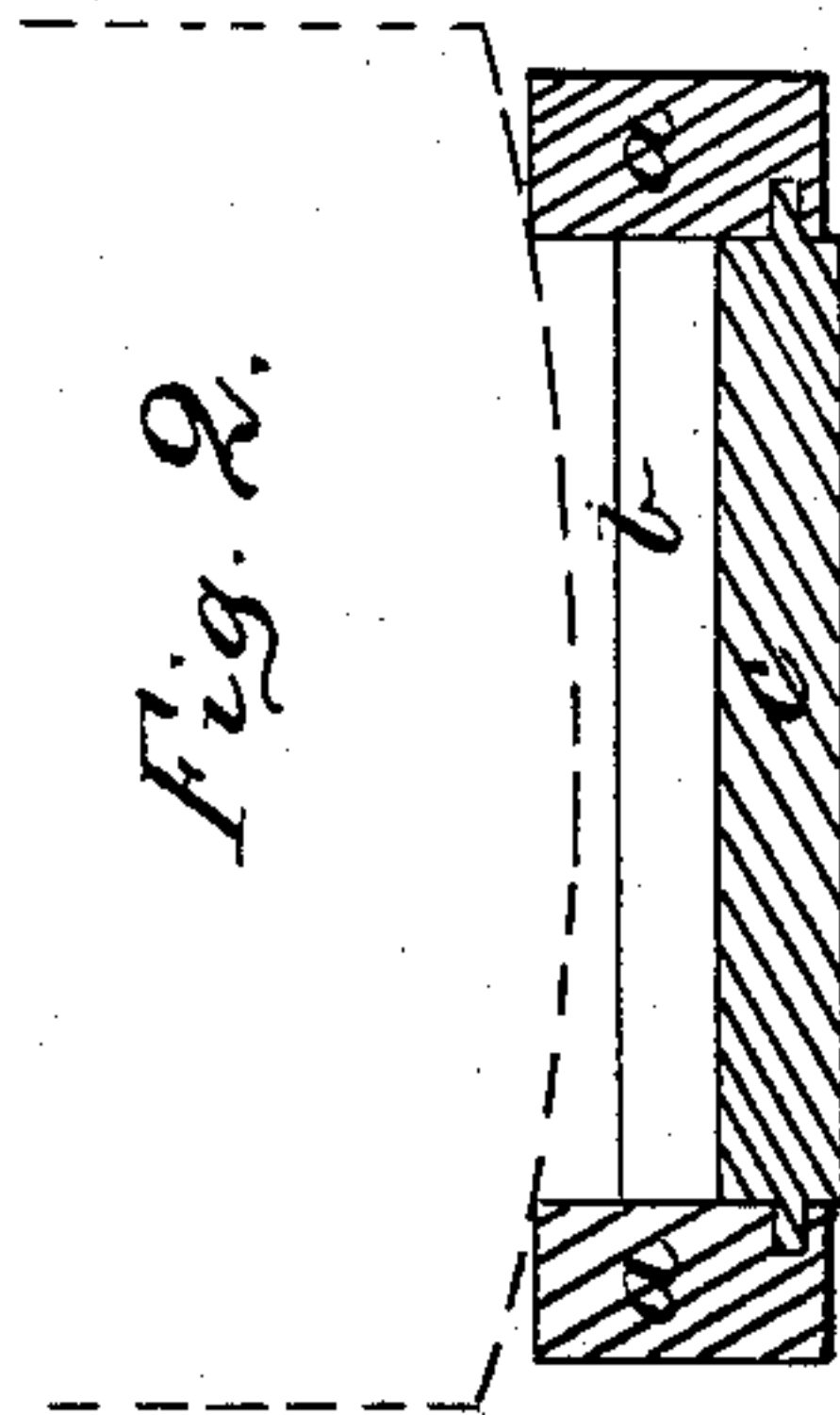
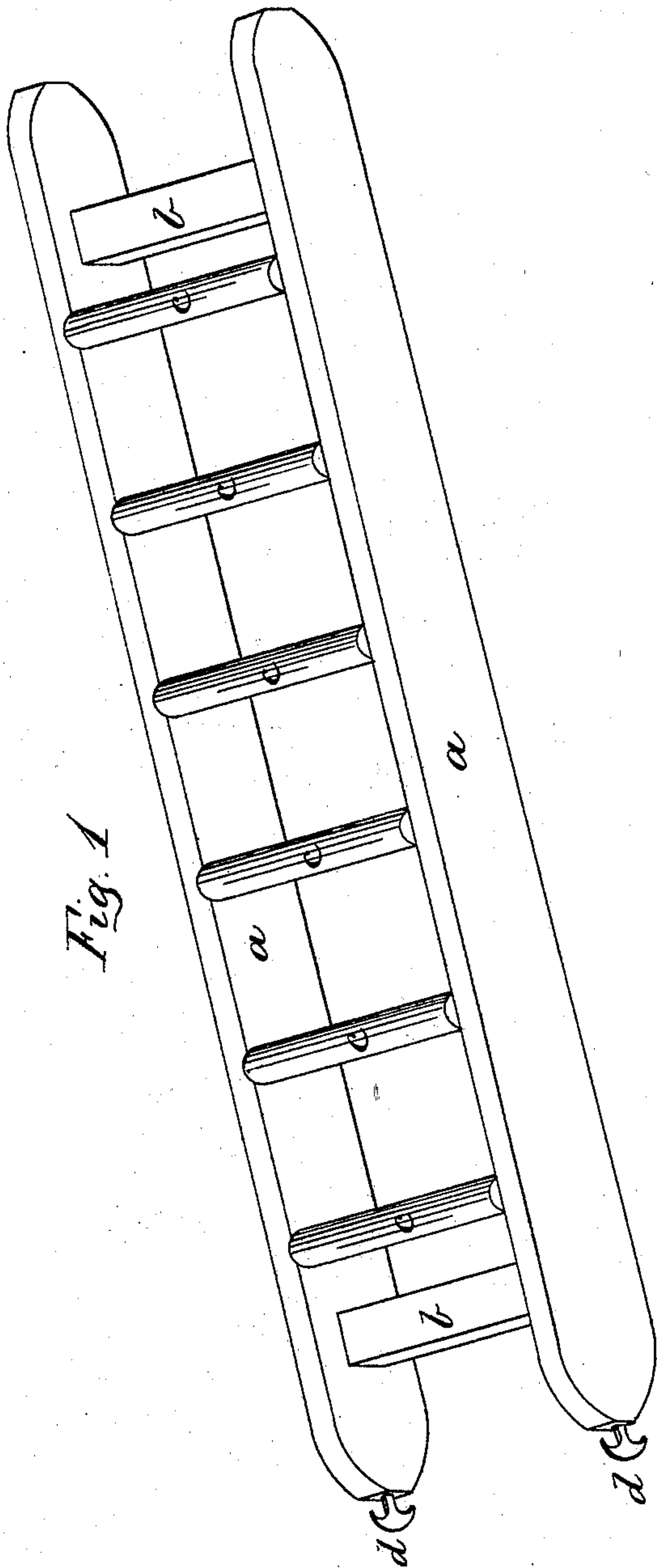


G. E. HARRINGTON.

PORTABLE SKID.

No. 169,990.

Patented Nov. 16, 1875.



Witnesses:

H. Allen

H. Chadbourne

Inventor.

George E. Harrington

by Alvan Andrus
his atty.

UNITED STATES PATENT OFFICE.

GEORGE E. HARRINGTON, OF SALEM, MASSACHUSETTS.

IMPROVEMENT IN PORTABLE SKIDS.

Specification forming part of Letters Patent No. **169,990**, dated November 16, 1875; application filed October 16, 1875.

To all whom it may concern:

Be it known that I, GEORGE E. HARRINGTON, of Salem, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Portable Skids; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in portable skids, for the purpose of loading and unloading articles of merchandise to and from wagons, wharves, warehouses, &c.; and consists, in combination with the ordinary frame and its braces, of a number of rolls freely movable around their centers in bearings in the frame, which rolls project a little above the upper side of the frame, but do not project as low as the lower part of the frame, by which I am able to load and unload boxes and similar articles of merchandise with great ease, and with very little friction, by drawing them up or down on that side of the skid having the rollers projecting above the frame. By reversing the skid I can use it for the purpose of loading and unloading barrels, or similar convex articles, in the usual manner, without interfering with the rollers.

In one end of each of the frame-timbers is placed a T-shaped bolt, for the purpose of attaching the skid temporarily to the rail of the wagon, &c., to or from which the goods are to be moved. The object of said T-shaped bolts is to secure the skid in position with either side upward, for the purpose of moving flat and convex articles of merchandise.

On the accompanying drawings, Figure 1 represents a perspective view of my improved skid, and Fig. 2 represents a cross-section over one of the rollers.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

a a represent the frame-work, and *b b* the braces, in the usual manner. *c c c* represent the rollers, movable in bearings in the frames *a a*, and having a portion of their convex surfaces projecting above the upper side of the frames *a a*, so that boxes, bars, &c., can be moved up and down on the rollers without touching the frames *a a*, thereby relieving a great deal of the friction that would exist if the goods were moved directly on the frames *a a*, as is the common occurrence on the ordinary skids. The rollers *c c c* are placed so near the upper side of the frames *a a* that the skid can be reversed for the purpose of moving barrels or similar convex goods by rolling them directly on the frames *a a* without coming in contact with the rollers *c c c*, as represented in dotted lines in Fig. 2. The frames *a a* are provided in one end with T-shaped bolts *d d*, for the purpose of securing the skid to the rail of a wagon, &c., with either side upward.

I am aware of the patent granted on the 2d day of July, 1867, No. 66,426, to Francis Van Doren, in which a roller-skid is shown having a solid flat bottom, and I therefore disclaim the invention as set forth in said patent.

Having thus fully described the nature, construction, and operation of my invention, I wish to secure by Letters Patent, and claim—

In combination with the frame *a a*, braces *b b*, and rollers *c c*, the T-shaped bolts *d d*, substantially as set forth and described.

In testimony that I claim the foregoing as my own invention I have affixed my signature in presence of two witnesses.

GEO. E. HARRINGTON.

Witnesses:

ALBAN ANDRÉN,
JOS. C. TORREY.