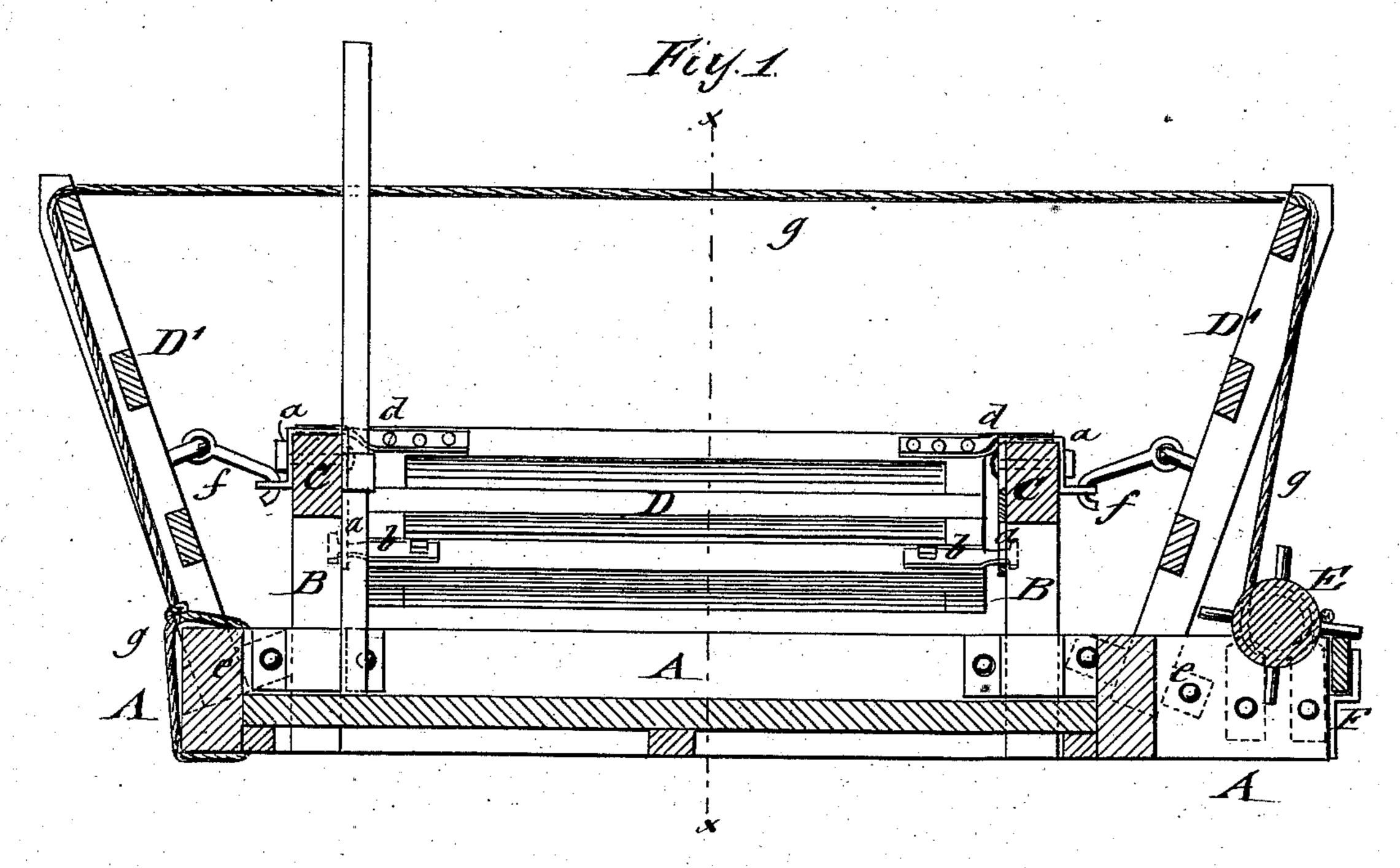
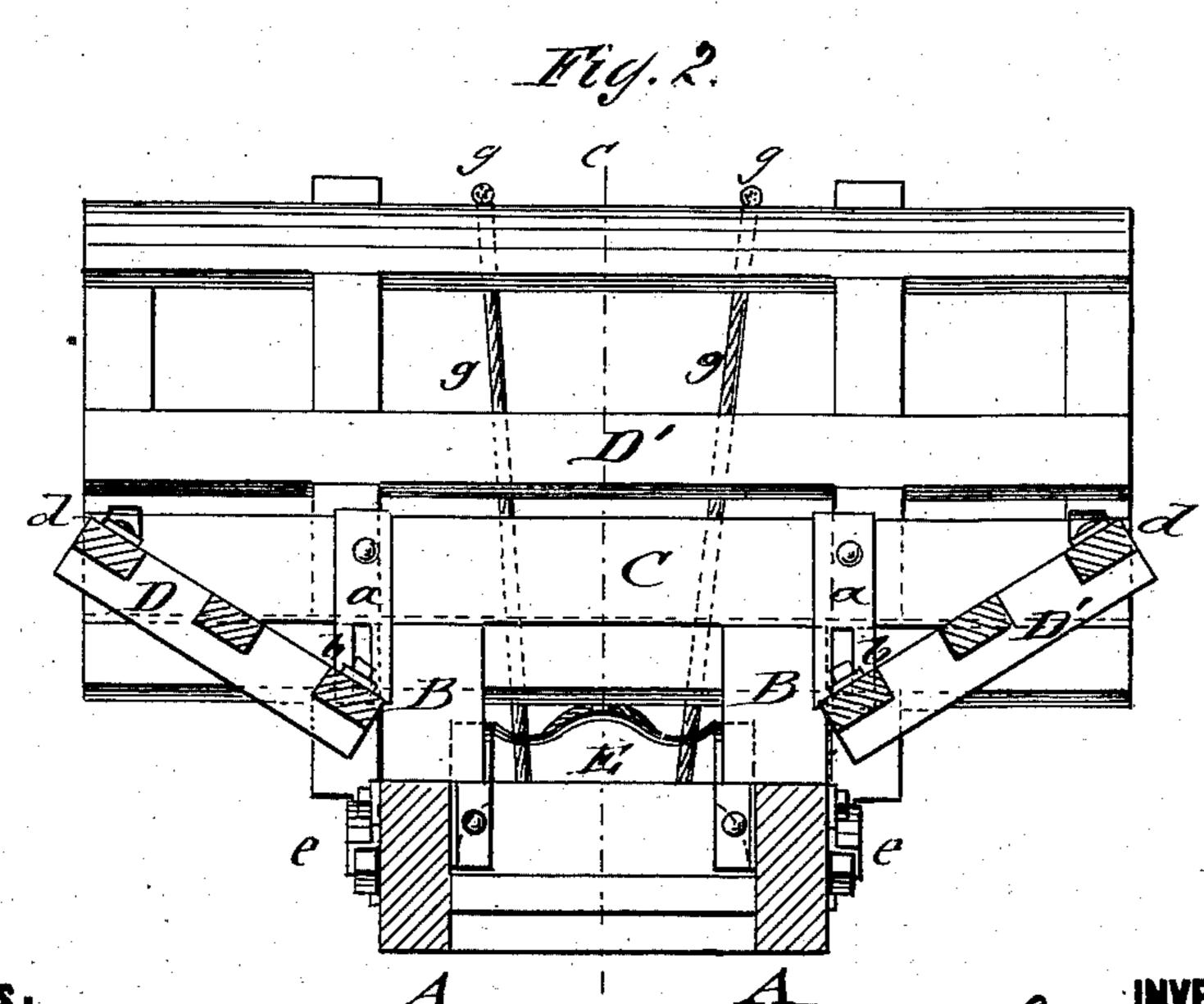
J. HALL. Hay-Rack.

No. 164,731.

Patented June 22, 1875.





WITNESSES:

INVENTOR:

UNITED STATES PATENT OFFICE.

JOSEPH HALL, OF RIVERSIDE, NEBRASKA.

IMPROVEMENT IN HAY-RACKS.

Specification forming part of Letters Patent No. 164,731, dated June 22, 1875; application filed May 1, 1875.

To all whom it may concern:

Be it known that I, Joseph Hall, of Riverside, in the county of Burt and State of Nebraska, have invented a new and Improved Hay-Rack, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a vertical longitudinal section on the line cc, Fig. 2, of my improved hay-rack; and Fig. 2, a vertical transverse section of the same on the line xx, Fig. 1.

Similar letters of reference indicate corre-

sponding parts.

The object of my invention is to furnish to farmers an improved hay-rack that is constructed in such a manner that it can be taken to pieces and stored away when not in use, while it may be readily set up and placed on the wagon by one person; being capable of carrying a large load, close to the team, without danger of slipping, moving, or upsetting.

The invention consists of a bed-frame, which is placed on the running-gear of a wagon, and provided with vertical standards having detachable cross-beams, and with inclined side and end ladders attached thereto, and load-binding cords stretched by a windlass attachment.

In the drawing, A represents an oblong bedframe; B its vertical standards, and C the cross-beams, which are secured by slotted recesses to the top of the standards, so as to be

readily applied and detached.

The cross-beams C are provided with slotted bands a, which are bolted thereto near the standards, to form at both sides supports, to which the inclined side and end ladders D and D' may be connected. The side ladders D have at their lower ends projecting lock-bolts b, with L or T shaped ends, which are introduced to the interior slotted parts of bands a by holding the ladders in vertical position, to be then carried back into inclined position until the

rest-plates d at the upper corners of the side ladders, are seated on the cross-beams. The side ladders are in this manner securely retained in position, while being quickly detached on being swung up in vertical position to release the lock-bolts from the slots. - The front and rear ladders D' are of greater height than the side ladders, and are seated into socket staples or bands e at the sides of the bed-frame. They are also placed at suitable inclination, and secured furthermore by hooks f to the outer slotted parts of bands a. The load is then placed on the rack, and the hay, straw, or other article firmly bound by means of the top cords g which are attached to the lateral front piece of the bed-frame, and carried over the front and rear ladders to a windlass, E, at the hind part of the bed-frame to be looped thereto. By turning the windlass the load-binding cords may be tightened to such a degree that the load is fully and securely, and without any danger of slipping, bound to the rack. A pivoted stay board, F, or other device locks the windlass in position for keeping the cords tight. All the parts of the rack are thus firmly secured, yet readily detachable from the bed-frame, for being taken off for storage or set up for use by one person, forming a convenient and superior rack device for farmers.

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

The combination of bed-frame A, having standards B and side sockets e, the crossbeams CC, having slotted bands a, and the frames DD', having fasteners, substantially as and for the purpose specified.

JOSEPH HALL.

Witnesses:

J. C. LAUGHLIN, GEO. W. GREEN.