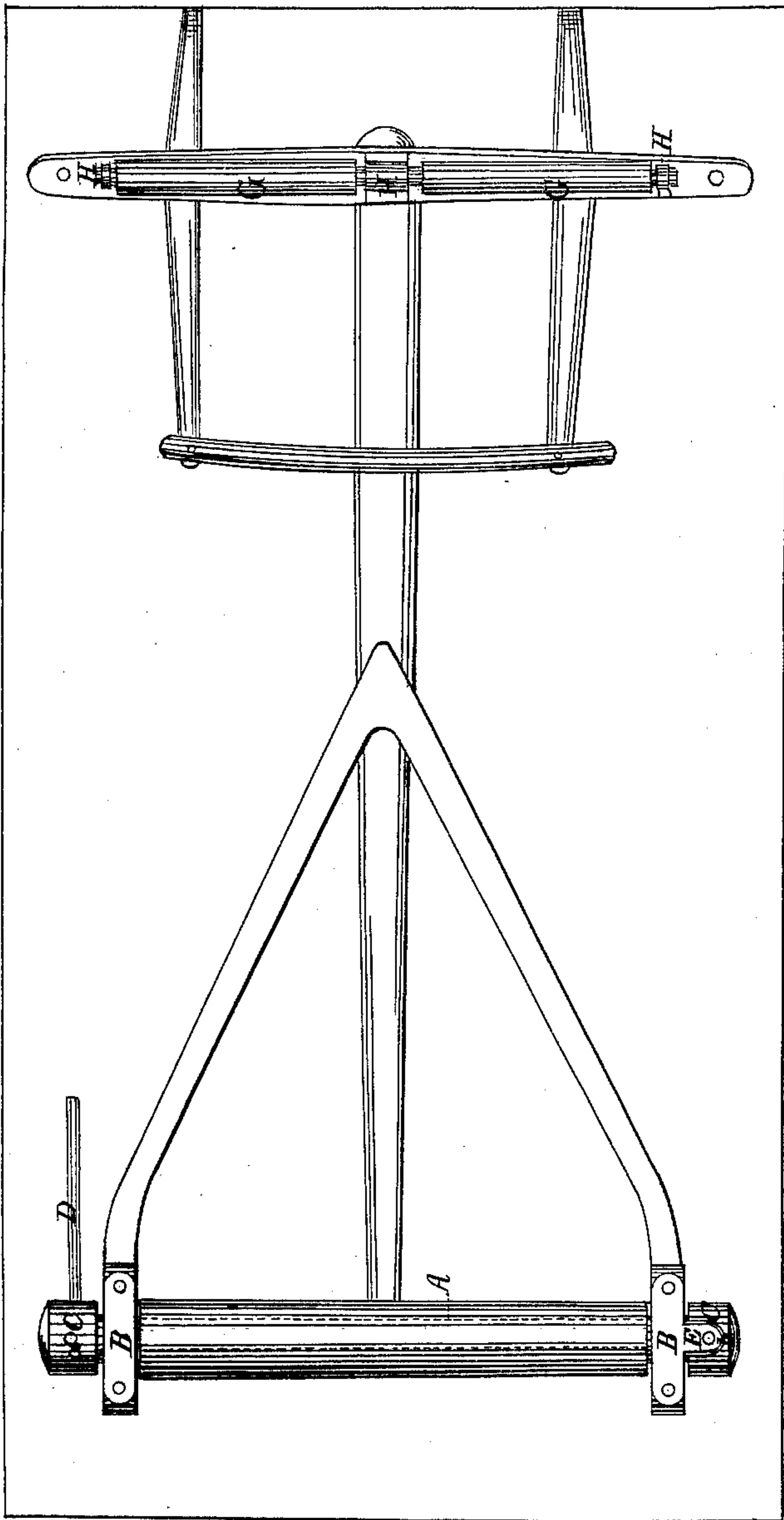


C. F. HALL.
Lumber Wagon.

No. 57,650.

Patented Aug. 28, 1866.

Fig. 1.



Inventor:

Witnesses:

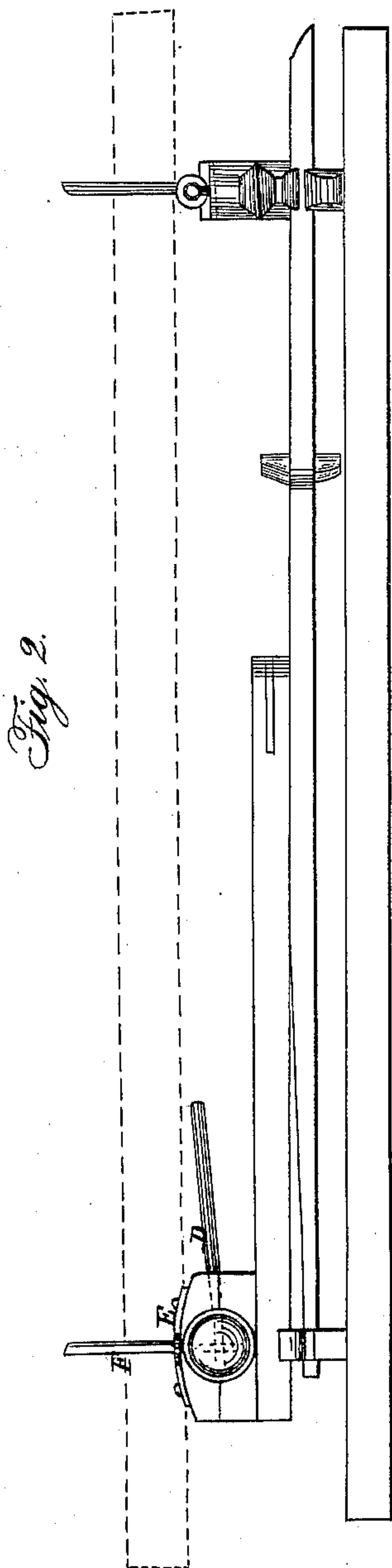
J. M. B. Livingston
Wm. Brown

C. F. Hall
Per Munn & Co
Attorneys

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Witnesses:

J. M. Blount
Wm. Brown

Inventor:

C. F. Hall
Per Munnell
Attorney

UNITED STATES PATENT OFFICE.

C. F. HALL, OF TORONTO, CANADA WEST.

IMPROVEMENT IN LUMBER-WAGONS.

Specification forming part of Letters Patent No. 57,650, dated August 28, 1866.

To all whom it may concern:

Be it known that I, C. F. HALL, of the city of Toronto, in the county of York, Canada West, have invented new and useful Improvements in Lumber-Wagons; 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 make and use the same.

This invention relates to improvements in the construction of lumber-wagons, especially those employed in saw-mills and lumber-yards, the object of which is to facilitate the discharge of the load, the wagon in every other respect being made in the ordinary manner therefor, and therefore needing no particular description herein.

In accompanying plate of drawings my improvements are illustrated, Figure 1 being a plan or top view of the same, and Fig. 2 a view of one side.

In my improved wagon, in lieu of the ordinary bolster above the hind or rear axle, I use a roller, A, of any desired diameter, made of any suitable material, which roller extends from side to side of the wagon, entirely across the same, turning in boxes or bearings B B at or near each end, and projecting beyond said boxes, with each end bound or clasped by a metallic or other suitable band or collar, C, pierced with a series of radial holes or apertures, *a*, into which is introduced a bar or stake, D, for turning the roller around. Above each of these bands or collars C, and fixed to the box or forming a part thereof, is a metal plate, E, solid or hinged, with a hole, *b*, through it, in line with those of the bands. A bar or stake, F, being passed through this plate into the band or collar, locks the roller and keeps it immovable.

On the forward or front bolster I place two rollers, G G, in a line with each other, made of any suitable material, and of a smaller diameter than the hind roller, A, but the two together of an equal length thereto. These rollers G turn in boxes or bearings H, attached to the bolster; and in lieu of the two, one only,

having a bearing or journal in the center, may be used, and, although not necessary, it would lessen the labor of unloading were similar rollers, or a roller, also placed on the sway-bar to receive the end of the lumber after it has passed from off the bolster-roller.

When it is desired to remove the load the bars or stakes which lock the hind bolster or roller are taken out and placed in an outer hole in the bands, so that by then pressing down the roller is turned toward the end of the wagon, causing the load to move in that direction, when, the center of the load arriving at a point about over this hind roller, the load will be carried over the end of the wagon and discharged therefrom, passing rapidly off *en masse* to the ground, the power necessary to unload by this method being so slight that persons of moderate or medium strength can perform the operation or work with comparative ease, and manifestly in much less time than is required when every board and piece of timber comprising the load has to be removed one by one by the hand.

In addition to the above, which is also one of the uses to which my invention may be applied, I propose, by placing a suitable box upon the rollers, to carry and expeditiously discharge sand, gravel, or other substances from the wagon, thereby saving much time and labor.

What I claim as new, and desire to secure by Letters Patent, is—

The roller A, with perforated projecting ends, the perforated plate E, in combination with the boxes B of the running-gear of wagon, provided at its forward end with rollers G and bearings H, all constructed and operating substantially as described, for the purpose specified.

The above specification of my invention signed by me this 14th day of February, 1866.

C. F. HALL.

Witnesses:

G. W. FOLTS,
A. CHRISTIE.