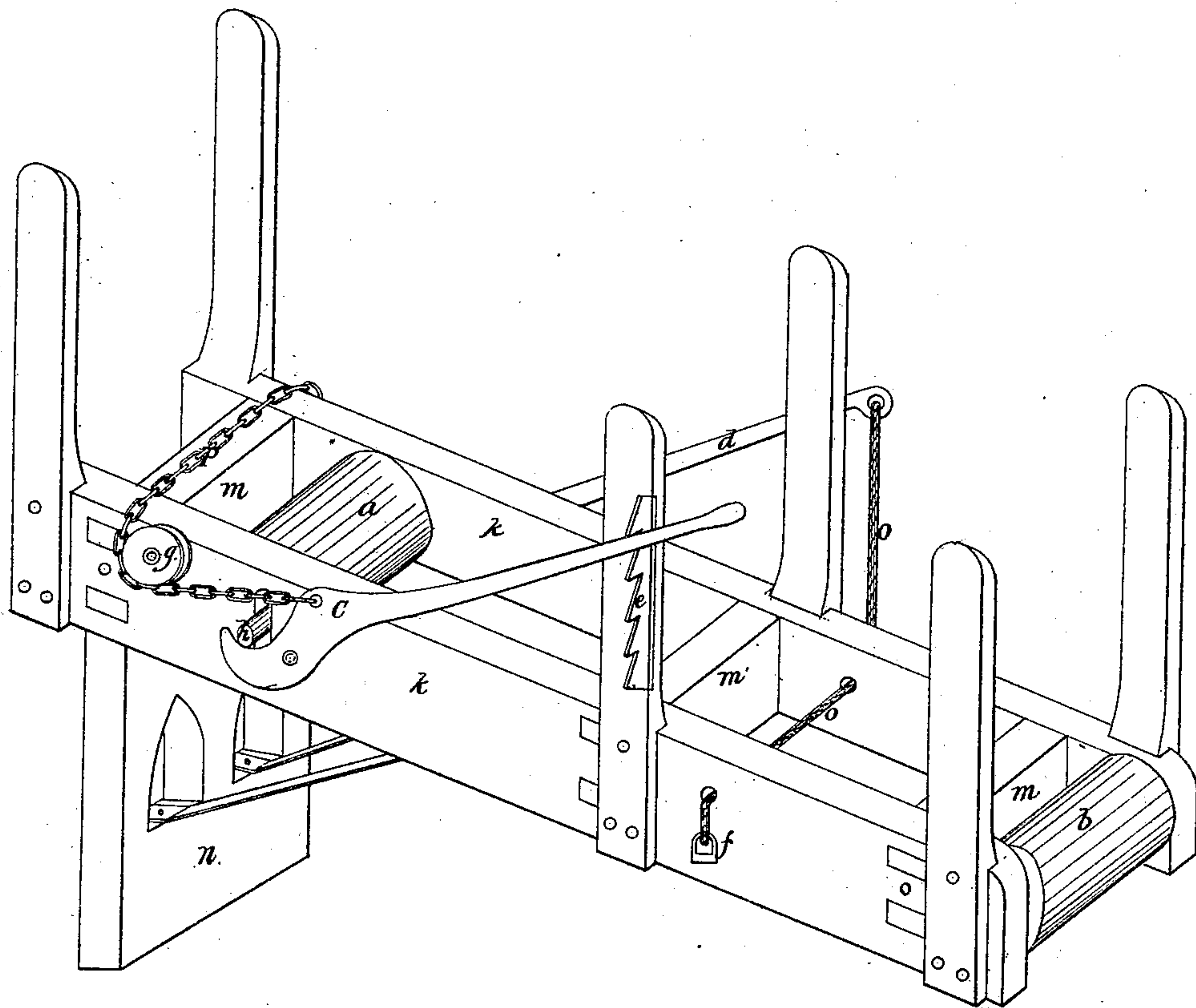


C. SACH
Lumber Rack.

No. 99,006

Patented Jan. 18, 1870.



Witnesses.
Geo. W. Griggs.
Jacob Barns.

Inventor.
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United States Patent Office.

CHARLES SACH, OF GRAND RAPIDS, MICHIGAN.

Letters Patent No. 99,006, dated January 18, 1870.

IMPROVED LUMBER-RACK.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, CHARLES SACH, of the city of Grand Rapids, Kent county, Michigan, have invented certain new and useful Improvements in Lumber-Racks; and do hereby declare that the following is a full, clear, and exact description of my invention, reference being had to the accompanying drawing, and the letters of reference marked thereon, and the same are made a part of this specification.

My invention relates to that class of lumber-racks in which the lumber is loaded from, and unloaded at the rear, its supporting-surface being upon an inclined plane, and supplied with rollers, to effect the more easy discharge of the lumber in unloading.

The drawing above referred to is a view, in perspective, of my invention, and of its several parts.

My invention consists of a frame composed of the bed-pieces K K and the cross-pieces *n*, *m'*, and *m*, the cross-piece *n* extending downward from the bottom of the rack, in an ordinary rack, about twenty inches, to give the necessary incline for discharging. The front and rear cross-pieces rest upon the bolsters of an ordinary wagon, and are attached to them by bolts, not shown in the drawing.

The roller *b* is so hung, in the side-pieces of the rack, as to have its upper surface raised slightly above the upper part of the rack, in order that the lumber, while and after being loaded, shall rest upon and be supported in part by it.

The roller *a* is hung in perpendicular slots just back of the cross-piece *n*, and when its bearings rest down upon the lower end of the slots, its upper surface will be slightly below the upper part of the rack, thus permitting the load to rest on the cross-pieces *n* and *m'*.

Upon each side of the rack are the levers *c* and *d*, which terminate at their lower ends in a hook, directly underneath the gudgeons *h*, the opposite end not being shown; and they are so hung, that by depressing the handles of the levers, the roller *a* will be raised up from its natural and usual position.

The lever *d* may be operated from the left-hand side

of the wagon or rack, by means of the rope *o o*, which is attached to it, and passes through holes in the rack, as shown.

When loaded, the lumber is bound to its place by the binding-chain P, which is attached to the right-hand side of the rack by a staple, and then thrown over the load, passed around the pulley *g*, and hooked into the lever *c*, while in a vertical or nearly vertical position. The depression of the lever will thus bind the load firmly to the rack, and when the chain P is sufficiently tightened, the lever may be held to its place by the ratch *e*, attached to the middle left-hand stake of the rack. There is no ratch on the opposite side of the rack.

In using my invention, the upper roller *a* should be suffered to rest upon the bottom of the slots while the lumber is being loaded and drawn to the place of deposit, the load resting upon the cross-pieces *n* and *m'* and the roller *b*, and bound by the chain P, as heretofore described.

When the load is to be discharged, the binding-chain should be loosened and removed, and the roller *a* so elevated, by depressing the levers *c* and *d*, that the load will be in part supported by it. The lumber will then roll off the rack, at the rear, in a body, and the work of unloading is done.

Having thus described my invention,

What I claim to have invented, and desire to secure by Letters Patent of the United States, is—

An improved lumber-rack, consisting of the roller *a*, resting in perpendicular slots, as shown, the lever *c*, chain *p*, pulley *g*, and ratch *e*, the lever *d* and rope *o o*, and the inclined bed-pieces K K provided with roller *b*, when constructed, arranged, and operating substantially as and for the purposes above specified.

Dated October 4, A. D. 1869.

CHARLES SACH.

Witnesses:

OMAR H. SUNAUCK,
BENJ. A. HARLAN.