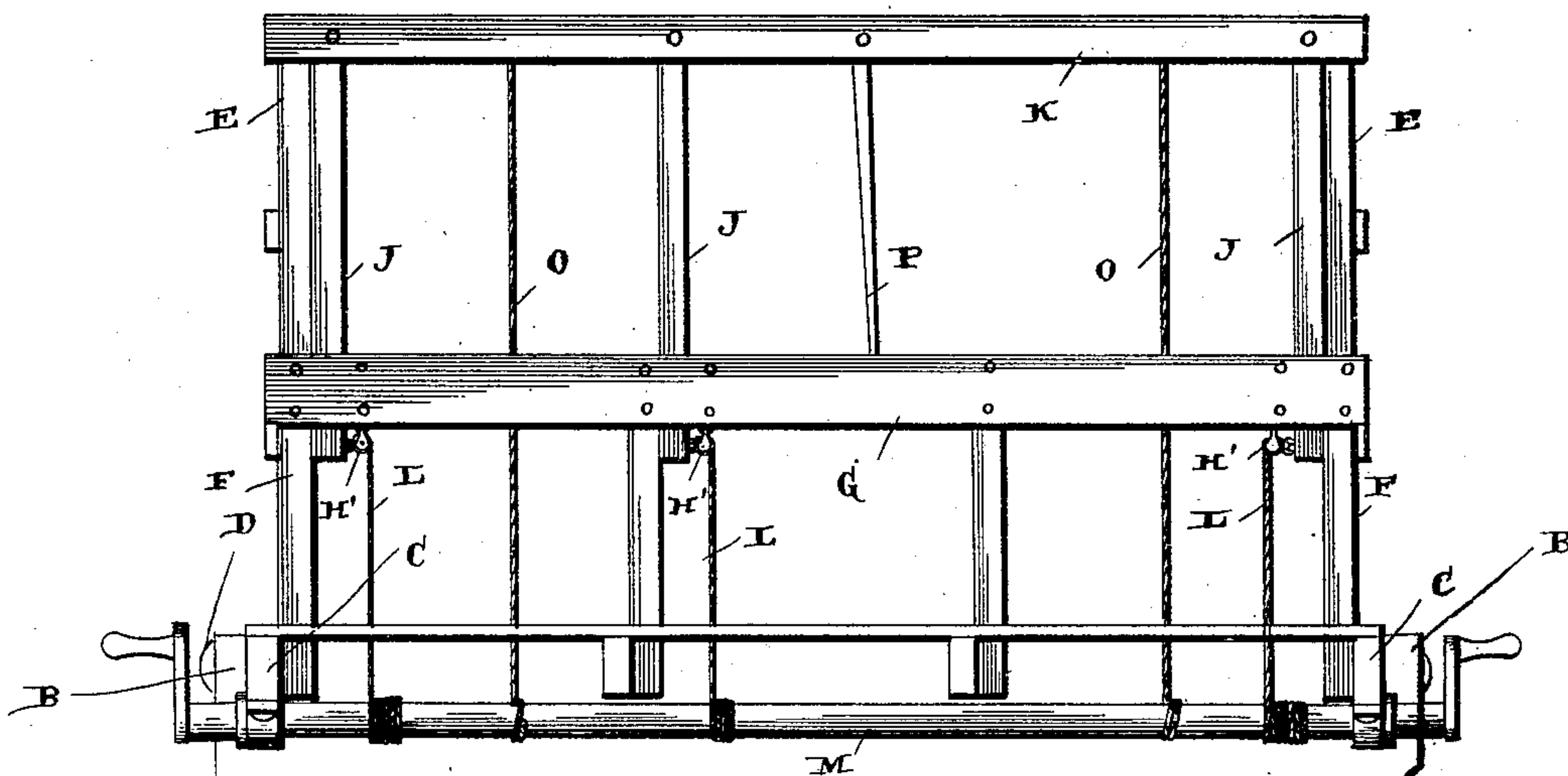
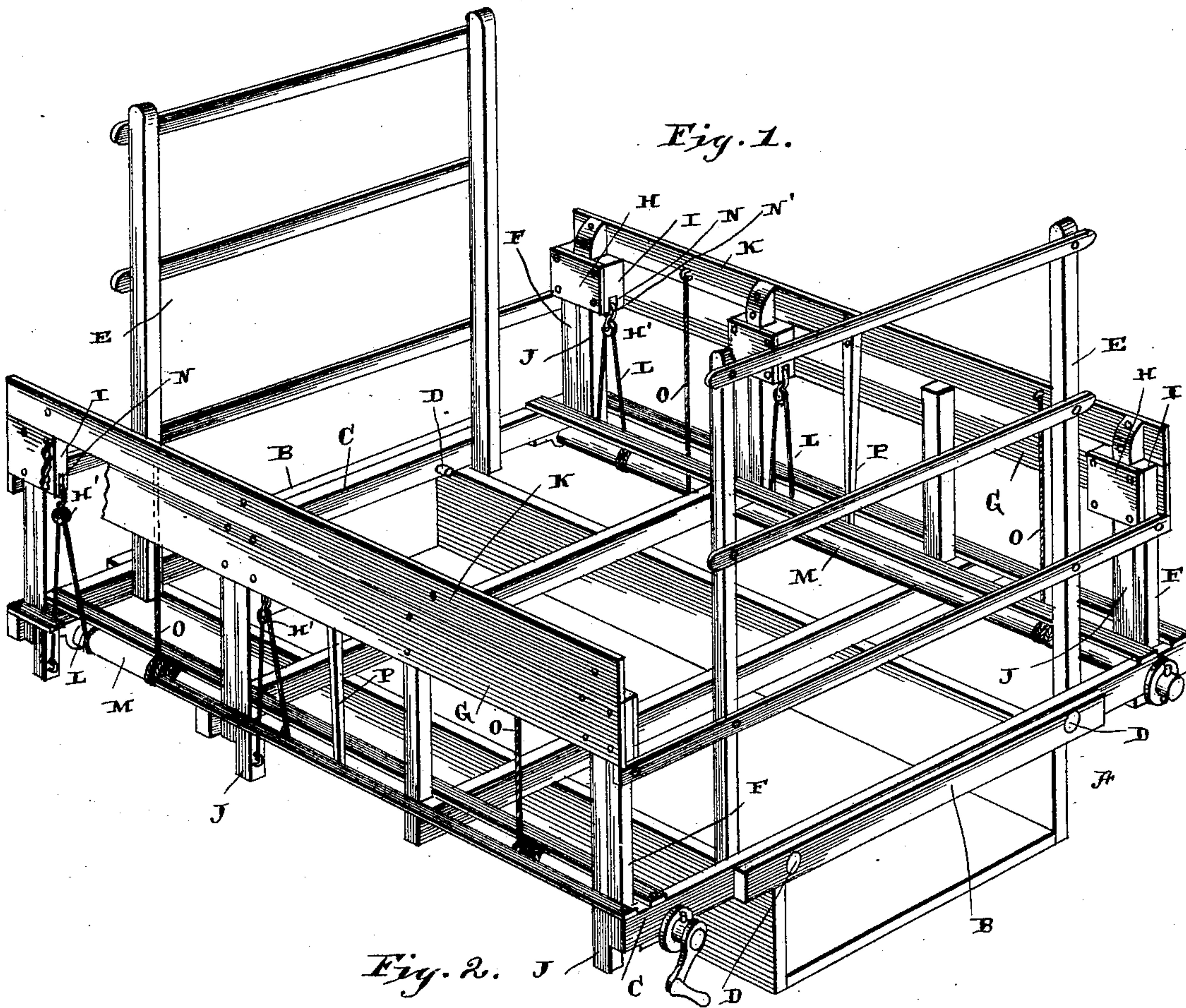


(No Model.)

S. H. PLOMBERG.  
HAY RACK.

No. 481,420.

Patented Aug. 23, 1892.



WITNESSES

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# UNITED STATES PATENT OFFICE.

SEVER H. PLOMBERG, OF LELAND, IOWA.

## HAY-RACK.

SPECIFICATION forming part of Letters Patent No. 481,420, dated August 23, 1892.

Application filed May 18, 1892. Serial No. 433,419. (No model.)

*To all whom it may concern:*

Be it known that I, SEVER H. PLOMBERG, of Leland, in the county of Winnebago and State of Iowa, have invented certain new and useful Improvements in Hay-Racks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in hay-racks; and it consists in the novel features of construction, which will be fully described hereinafter, and more particularly referred to in the claims.

The object of my invention is to construct a rack with vertically-adjustable sides, whereby the depth of the body may be regulated according to the amount of hay or other matter to be transported, and, further, to provide an improved means of securing the rack in position on top of the wagon-body proper.

Referring to the accompanying drawings, Figure 1 is a perspective view of my improved rack, the adjustable portion being lowered. Fig. 2 is a side elevation showing the adjustable portion raised.

A represents the body proper of ordinary construction, which is adapted to fit the bolsters of an ordinary wagon, and secured across the ends of the said body are the cross-pieces B.

C represents the main cross-pieces of the hay-rack, which rest on the top of the body A, the end cross-pieces being secured to the members B by pins D. The rack is thus held securely in position on the body and prevented from any movement whatever, while at the same time by simply removing the pins D the rack may be easily removed.

E represent the end portions of the rack, which are secured to the end cross-pieces C. Projecting vertically from the opposite ends of the latter are the uprights F, and secured to their upper ends are the longitudinal beams G, and by means of the stops I and cleats H vertical ways are formed on the sides of the said uprights F. Adapted to move vertically in the ways thus formed are the standards J, which are connected at their upper ends by the horizontal rail K.

L represents ropes, which are secured at their

lower ends to the bottom of the standards J. These ropes extend upward through pulleys H', and from the latter the ropes extend downward to the longitudinal roller or drum M, which is journaled to the upper sides of the cross-pieces C and which is provided with a crank for conveniently turning it, as shown.

The lower ends of the blocks I are slotted upward, as shown at N, and secured therein by cross-pins are the rings N', to which are secured the depending pulleys H'. By this construction it will be seen that they can be easily removed or adjusted in position when desired. Thus it will be seen that by simply winding the ropes L upon the said roller or drum the adjustable side sections may be elevated to any desired degree.

Secured at their upper ends to the rail K, between the standards J, are the lines O, which wind at their lower ends upon the drum M in an opposite direction from that followed by the elevating-ropes L, so that when the latter are winding on the drums elevating the rack the former will be giving out, and in a reverse operation the ropes O serve to draw the rack down when it is desired that the same be lowered. The ropes O also serve to close the wide spaces between the standards J, and thus prevent the passage of hay or straw therethrough. Depending fingers P are provided for the intermediate spaces between those occupied by the ropes O for the purpose above stated.

My improved rack is also of great convenience for unloading, it being simply necessary to either lower one side or both to enable the operator to have ready access to the hay for removing it from the rack.

Having thus described my invention, I claim—

1. The combination, with the sides of a hay-rack having vertical ways formed thereon, of vertically-adjustable racks having depending standards which move in said ways and a means for elevating the said adjustable racks, substantially as shown and described.

2. The combination, with the sides of a hay-rack having vertical ways formed thereon and side racks adapted to move in said ways, of a drum secured across the projecting portion of the side of the rack and ropes so connected to the drum and the adjustable racks



that when the former is revolved the racks will be elevated, substantially as shown and described.

3. In a hay-body, the combination of a stationary vertical rack, a vertically-adjustable rack adapted to move thereon, ropes for elevating and separate ropes for lowering the rack, and a drum upon which the said ropes are adapted to be wound in opposite directions, substantially as shown and described.

4. The combination, with a hay-body having cross-pieces C, of sides projecting vertically from said cross-pieces having ways thereon, vertically-adjustable racks, standards depending therefrom which move in the ways

of the said sides, a drum journaled to the under sides of the cross-pieces C, and ropes secured to the said drum and lower ends of the said standards at their respective ends, the said ropes between their ends passing up over pulleys depending from the stationary vertical sides, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

SEVER H. PLOMBERG.

Witnesses:

C. H. REAGAN,  
M. MICHAELSON.