

No. 708,928.

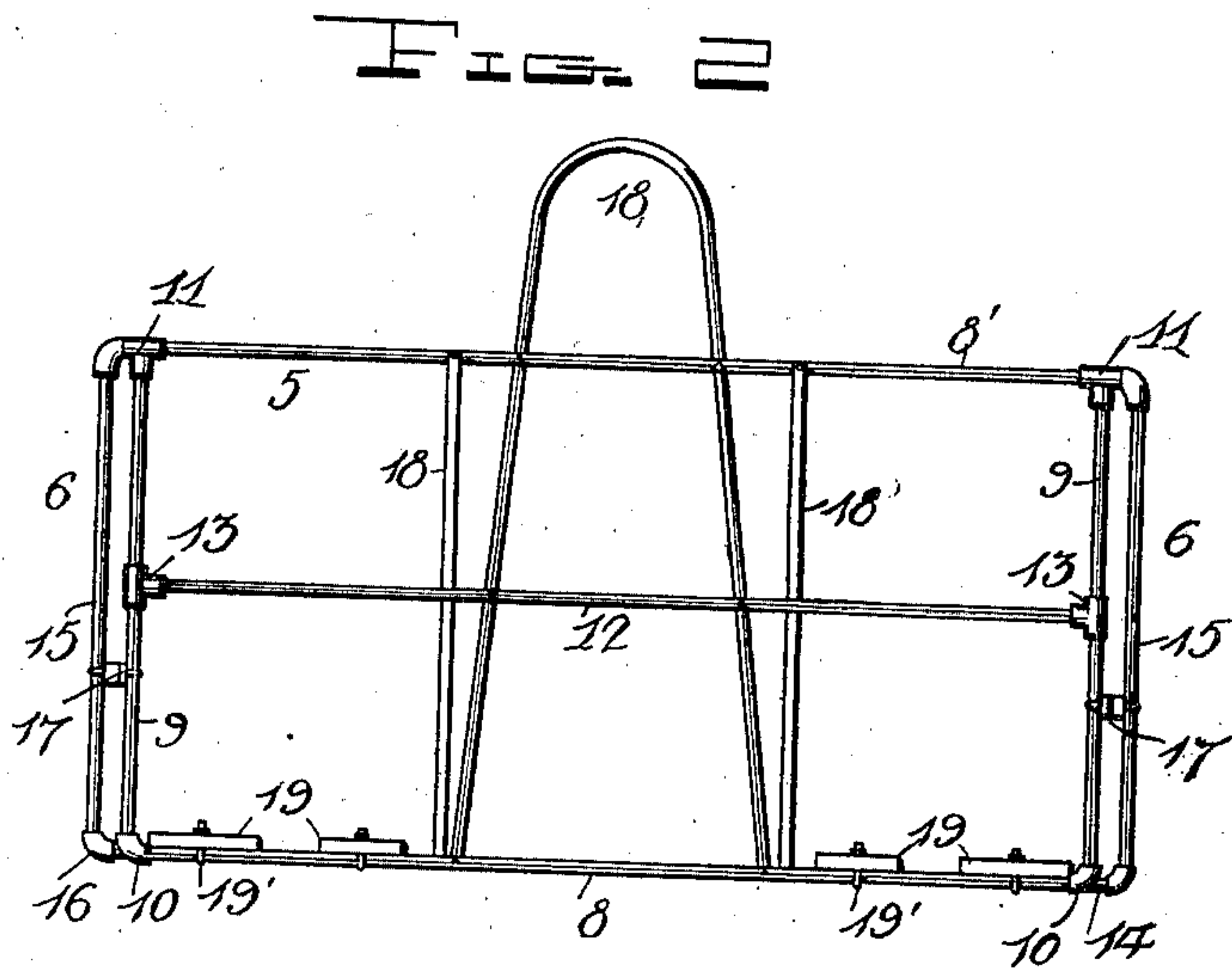
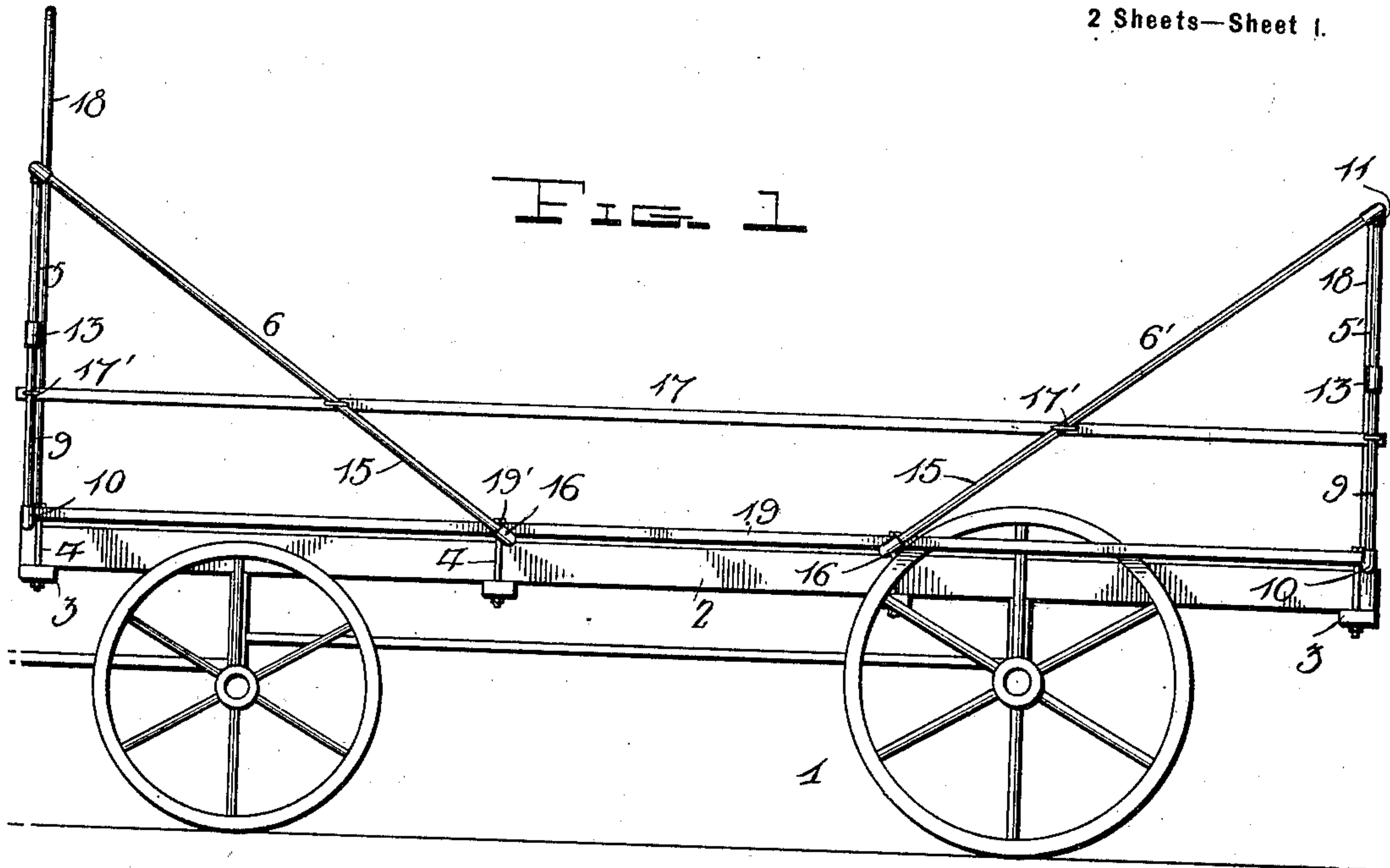
J. SIEMSEN.
HAY RACK.

Patented Sept. 9, 1902.

(Application filed July 21, 1902.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses
J. L. Johnson
J. L. Johnson

Inventor
Jorgen Siemsen
By
A. B. Wilson & Co.
Attorneys

No. 708,928.

Patented Sept. 9, 1902.

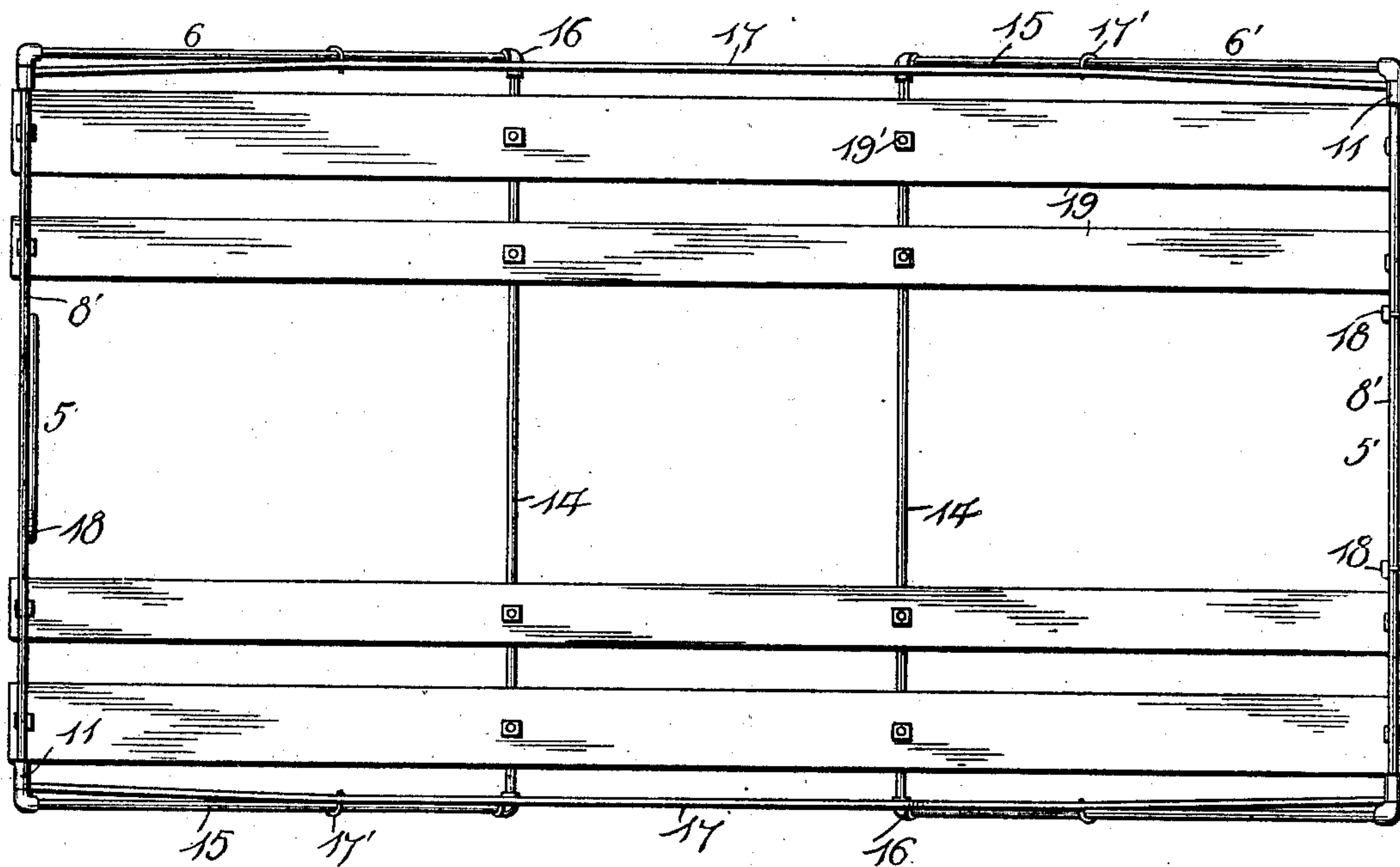
J. SIEMSEN.
HAY RACK.

(Application filed July 21, 1902.)

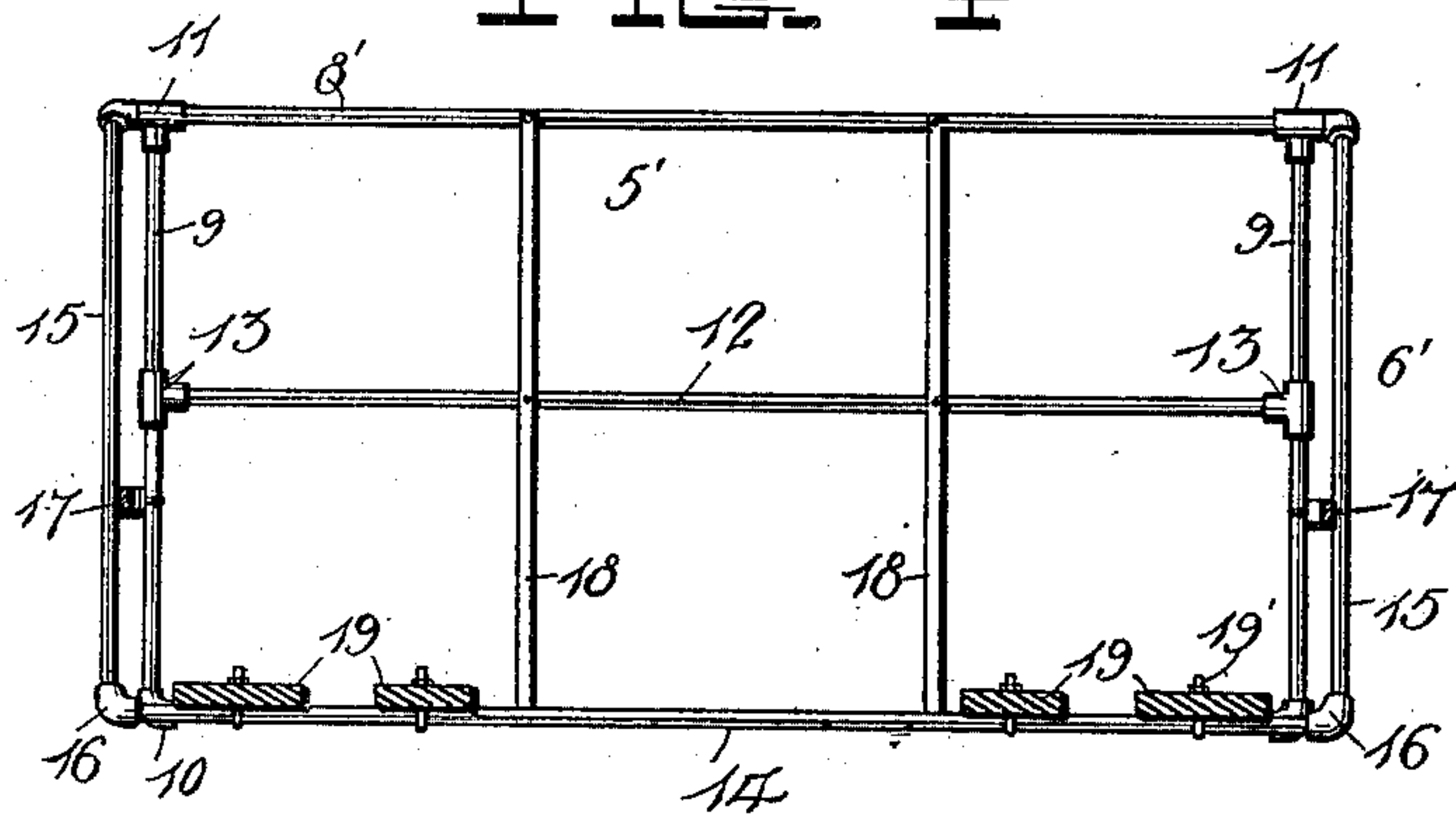
(No Model.)

2 Sheets—Sheet 2.

Fig. 3



F I G. 4



Inventor

Jurgen Siemsen,

Witnesses

J. A. Robinson

By

A. B. Wilson & Co
Attorneys

Attorneys

UNITED STATES PATENT OFFICE.

JURGEN SIEMSEN, OF VALPARAISO, NEBRASKA, ASSIGNOR OF ONE-HALF
TO JACOB SIEMSEN, OF VALPARAISO, NEBRASKA.

HAY-RACK.

SPECIFICATION forming part of Letters Patent No. 708,928, dated September 9, 1902.

Application filed July 21, 1902. Serial No. 116,370. (No model.)

To all whom it may concern:

Be it known that I, JURGEN SIEMSEN, a citizen of the United States, residing at Valparaiso, in the county of Saunders and State of Nebraska, have invented certain new and useful Improvements in Hay-Racks; and I do 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 appertains to make and use the same.

This invention relates to improvements in hay-racks; and its object is to provide a rack composed in the main of piping, forming a light, strong, and durable structure the parts of which are so connected as to be readily detached for shippage and as readily assembled for use.

With the above and other objects in view, which will readily appear as the nature of the invention is better understood, said invention consists in certain novel features of construction and combination and arrangement of parts, which will be hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a hay-rack embodying my invention. Fig. 2 is an end elevation thereof. Fig. 3 is a top plan view. Fig. 4 is a cross-section.

Referring now more particularly to the drawings, the numeral 1 represents a suitable wheeled supporting-frame, preferably formed of a pair of longitudinal side beams 2, resting upon the bolsters of any desired type of running-gearing and connected at intervals by transverse bars 3, secured thereto by U-clips 4. The rack proper is carried by this frame and comprises a pair of vertical end frames 5 5' and a pair of intermediate brace-frames 6 6'. These frames are of rectangular form, and each end frame consists of bottom and top tubes or pipes 8 8', side tubes or pipes 9, connected at their lower ends by L-couplings 10 to the pipes 8 and at their upper ends by T-couplings 11 to the pipes 8', together with a pipe 12, connected by T-couplings 13 to the pipes 9 and serving to brace and give greater strength and rigidity to the frame. The brace-frames 6 6' each consists of a base transverse pipe 14 and inclined arms 15, connected

at their inner ends thereto by elbows 16 and fitted at their outer ends to the T-couplings 11 of the adjacent end frame, so that the upper cross-pipe 8' forms a top piece common to both frames. The pipes 8 and 14 are firmly secured to the bars 2 by the U-clips 4, whereby they may be readily attached to and detached from the base-frame. Side bars 17 may extend between the two end frames 5 5' and be united by clips 17' to the pipes 9 and 15, and also, if desired, the end frames may be braced by vertical standards 18 of any approved form. The floor 19 of the rack is composed of boards connected by clips 19' to the pipes 8 and 14.

It will be seen that each pair of end and brace frames act as mutual supports and that as the structure in entirety is composed mainly of piping a simple, strong, and durable rack is produced.

The advantage of the invention is that the use of nails and bolts as fastenings is wholly obviated and the device made readily capable of being put up and taken down by the use of the clips and couplings, enabling the parts to be conveniently shipped and easily assembled to form the rack.

From the foregoing description, taken in connection with the accompanying drawings, it is thought that the construction, mode of operation, and advantages of my improved hay-rack will be readily apparent without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

A hay-rack comprising a base-frame, end frames mounted upon the base-frame and each comprising top and bottom and side pipes coupled together, the bottom pipes being detachably connected to the base-frame, brace-frames arranged adjacent to the end frames and each consisting of a cross-pipe detachably connected to the base-frame and inclined side pipes coupled at their lower ends to said cross-

pipe and at their upper ends to the upper
couplings of the adjacent end frame, so that
the top pipe of the end frame is common to both
frames, and side bars uniting the end and in-
5 termediate frames, substantially as and for
the purpose set forth.

In testimony whereof I have hereunto set

my hand in presence of two subscribing wit-
nesses.

JURGEN SIEMSEN.

Witnesses:

LUKE TARPENNING,
C. Y. McDERMOTT.