

(No Model.)

R. I. LAPHAM.  
PORTABLE FEED RACK.

No. 457,784.

Patented Aug. 18, 1891.

Fig. 1.

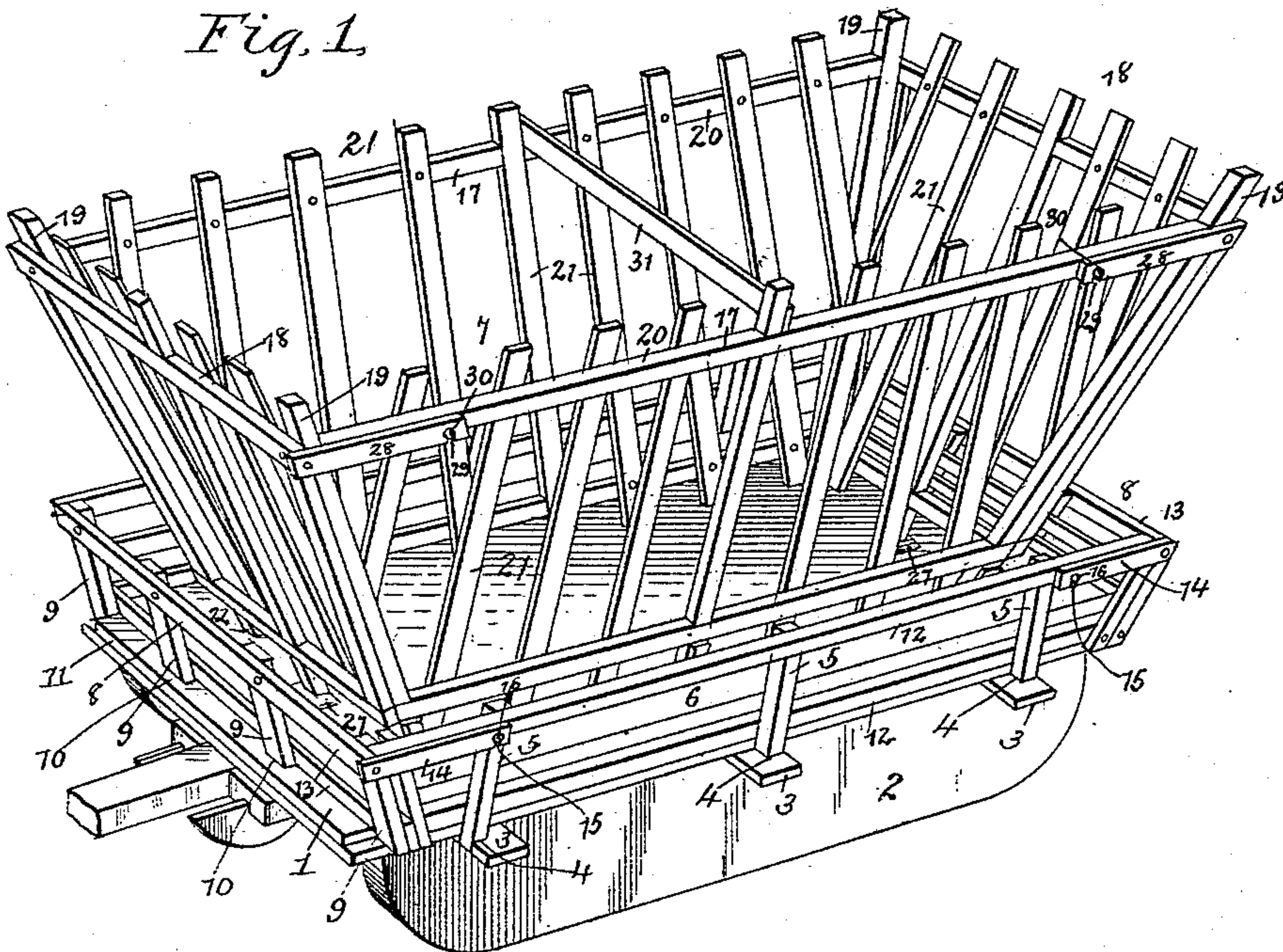


Fig. 2.

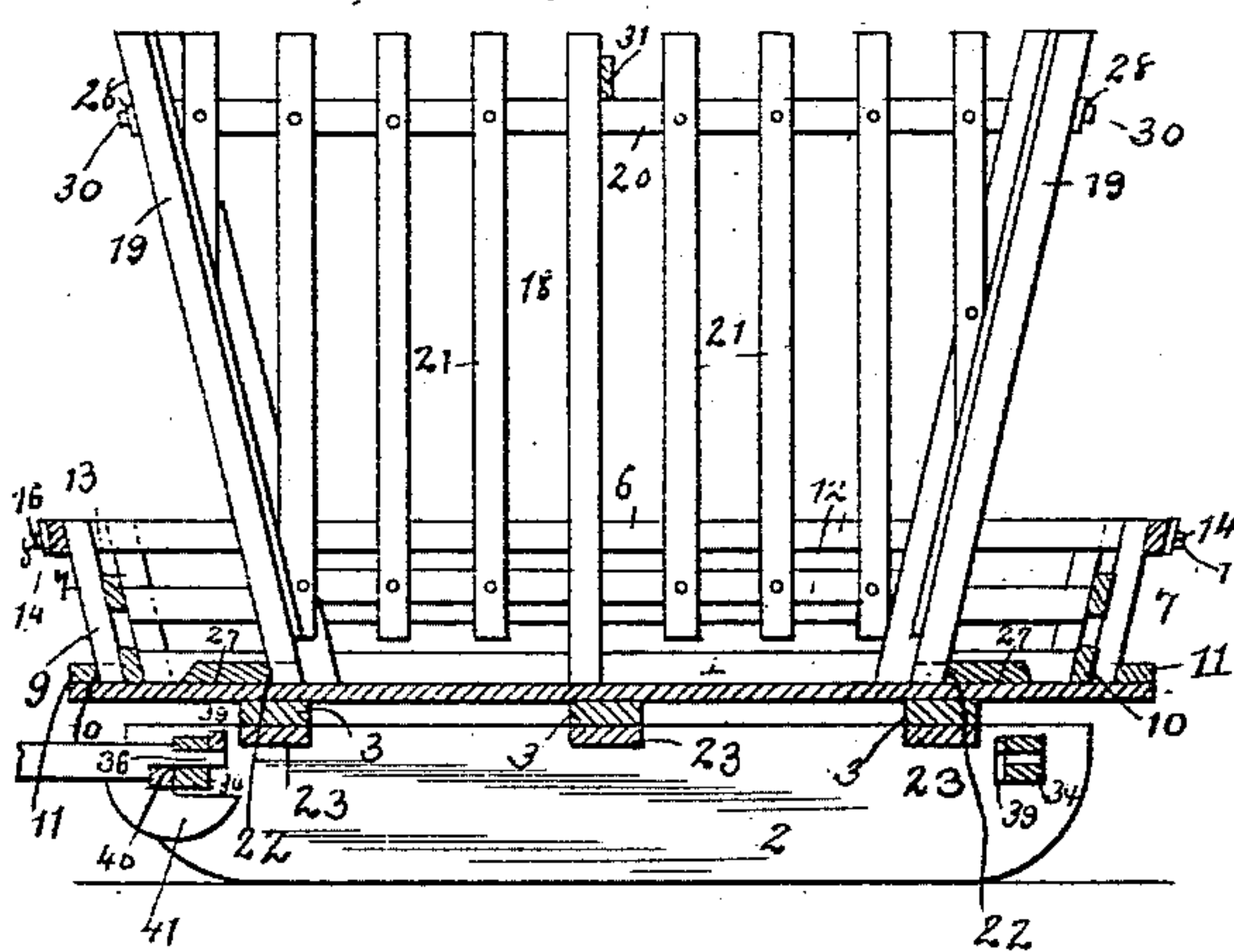


Fig. 3.

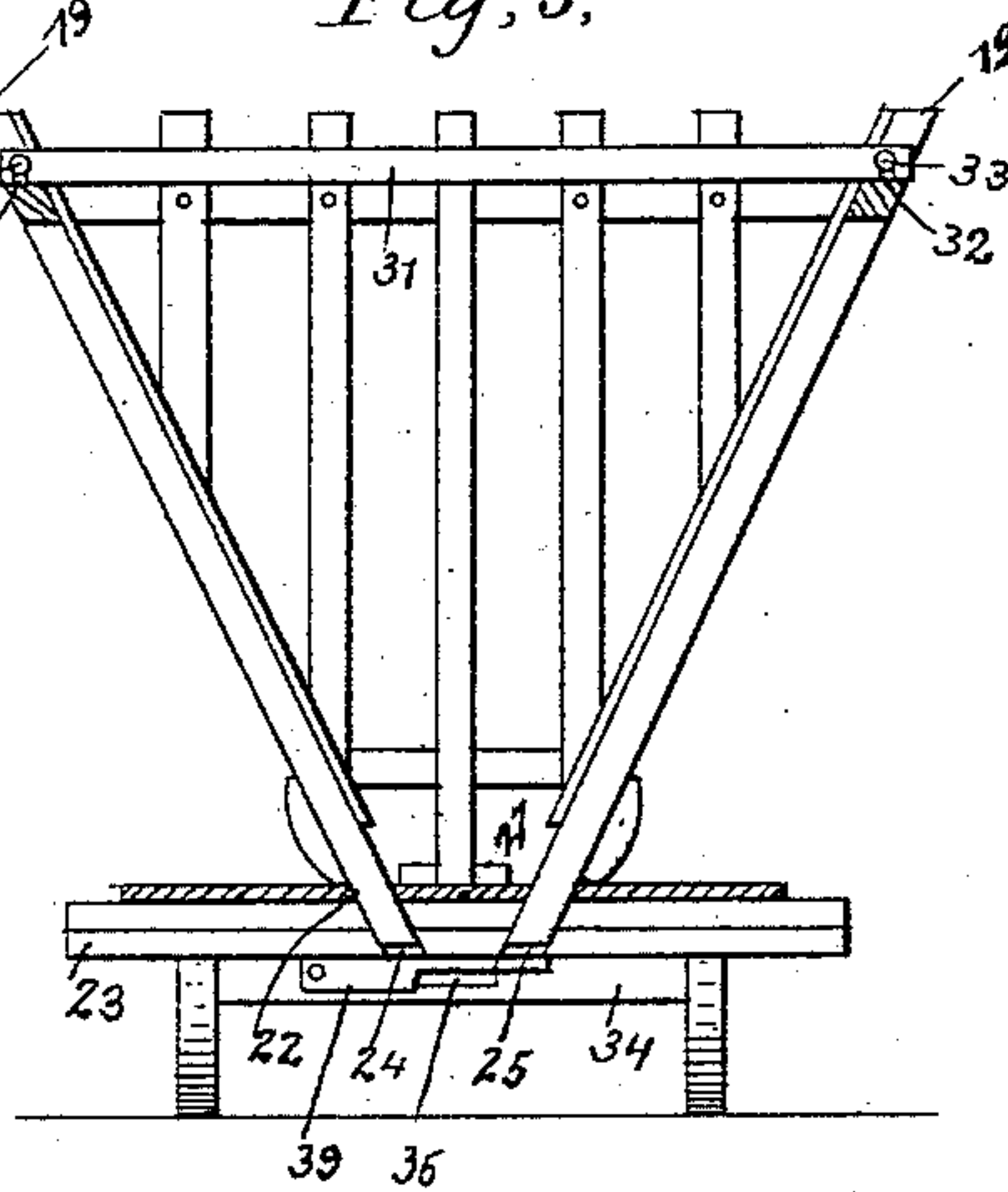
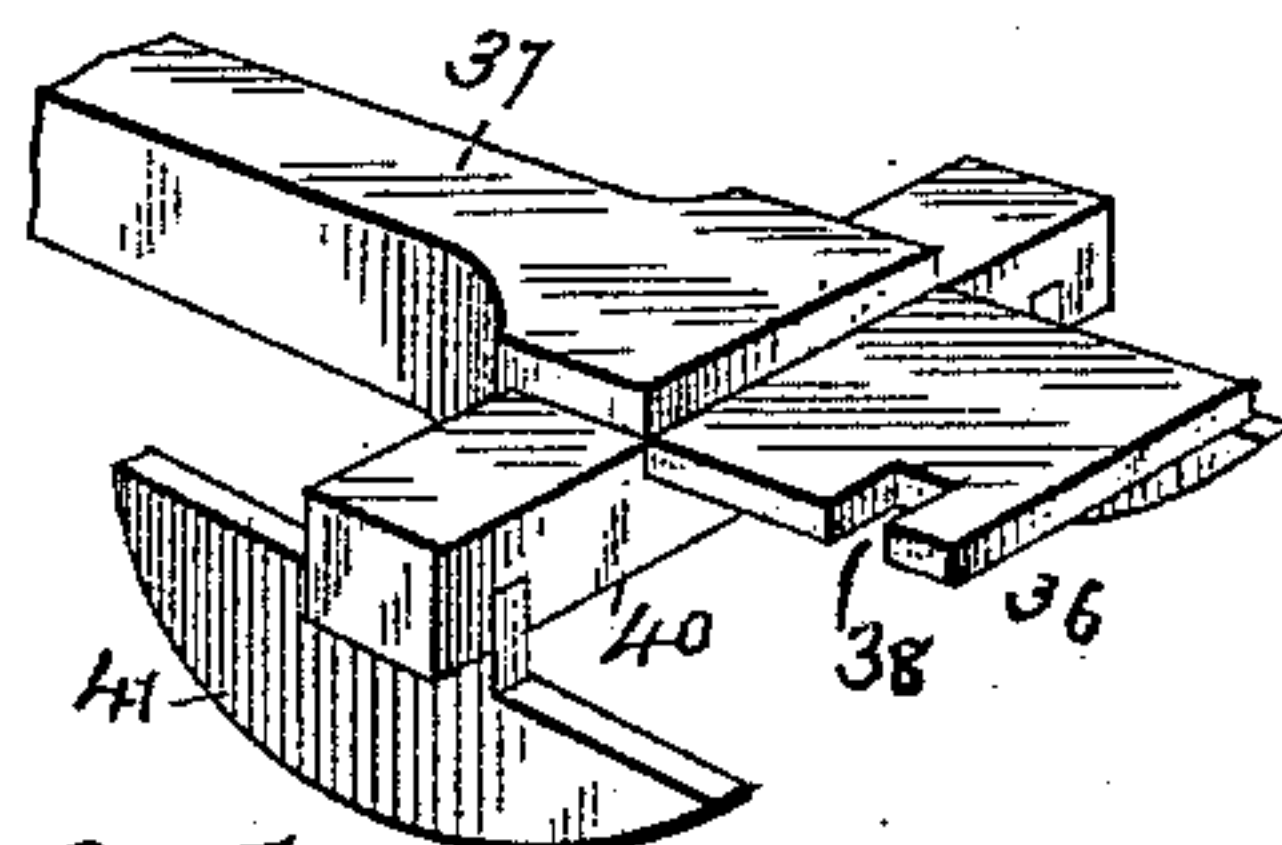


Fig. 4.



Witnesses

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# UNITED STATES PATENT OFFICE.

REED I. LAPHAM, OF CLIFTON, MISSOURI.

## PORTABLE FEED-RACK.

SPECIFICATION forming part of Letters Patent No. 457,784, dated August 18, 1891.

Application filed August 2, 1890. Serial No. 360,787. (No model.)

*To all whom it may concern:*

Be it known that I, REED I. LAPHAM, a citizen of the United States, residing at Clifton, in the county of Schuyler and State of Missouri, have invented a new and useful Portable Feed-Rack, of which the following is a specification.

The invention relates to improvements in portable feed-racks.

10 The object of the present invention is to provide a simple and inexpensive feed-rack adapted to be readily moved from place to place and capable of having its parts readily separated and assembled when desired.

15 The invention consists of the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

20 In the drawings, Figure 1 is a perspective view. Fig. 2 is a vertical longitudinal sectional view. Fig. 3 is a transverse sectional view. Fig. 4 is a detail perspective view of the rear or inner end of the tongue.

25 Referring to the accompanying drawings, 1 designates a platform mounted upon runners 2 and composed of longitudinal boards and cross-pieces 3, secured to the lower faces of the boards and projecting beyond the sides 30 of the platform and provided with recesses 4, adapted to receive the lower ends of posts 5 of the side sections 6 of an outer rack, which forms a trough between it and an inner rack 7. The outer rack is composed of the side 35 sections 6 and end sections 8, which has its posts 9 arranged in recesses 10 of end strips 11, secured to the upper face of the platform at the ends thereof; and the said sections 6 and 8 are composed of vertical posts and horizontal bars 12 and 13, and the said end sections 8 are provided with hinged latch-bars 14, provided at their free ends with notches 15, arranged to engage pins 16, extending laterally from the top bars 12 of the side sections 6, and the said sections 6 and 8 are inclined outward and serve to support each other and may readily be separated by disengaging the latch-bars from the pins 16.

40 The inner rack is composed of side and end sections 17 and 18, and is adapted to contain feed for cattle, and said sections have their

lower ends secured to the platform and are inclined upward and outward therefrom and consist of posts 19, horizontal bars 20, and vertical slats 21. The side sections 17 have 55 the lower ends of their posts 19 gained or stepped in the platform, which is provided with rectangular openings 22, and the cross-pieces 3 of the platform and cross-bars 23 of the sled are provided with recesses 24 and 25, 60 which communicate or register with the openings of the platform, and their walls are inclined, and they form oppositely-inclined ways to receive the lower ends of the posts of the side sections. The central posts of the 65 end sections have their lower ends arranged in recesses of blocks 27, secured to the upper face of the platform a short distance from the ends thereof. The sections of the inner rack are secured together similar to the sections 70 of the outer rack, and the end sections of the inner rack are provided with hinged latch-bars 28, provided at their free ends with notches 29, arranged to engage pins 30, extending laterally from the upper horizontal 75 bars of the side sections, and the said side sections are braced at their top and the rack prevented spreading laterally by a cross-bar 31, provided at its ends with notches 32, adapted to engage pins 33, extending from 80 the middle posts of the side sections.

The runners 2 have journaled between their ends bars 34, provided with centrally-arranged horizontal slots, which are adapted to receive the rear end 36 of a tongue 37, which end 36 85 is reduced and provided with a notch 38, arranged to be engaged by a pivoted latch 39, secured to the inner face of the latch-bar, and it will be seen that the tongue 37 can readily be secured to either end of the platform, 90 thereby avoiding the necessity of turning the feed-rack. The tongue has secured to its inner end a cross-bar 40, which is recessed to receive the tongue and is provided at its ends with runners 41 to enable the tongue to be 95 readily drawn over the ground and avoiding the necessity of holding the rear end when changing the tongue from one end of the platform to the other.

What I claim is—

1. In a feed-rack, the combination of the portable platform, the removable and sepa-



able inner rack stepped in the platform and composed of end and side sections, the latch-bars hinged to the end sections and engaging the side sections, the removable cross-bar 31, 5 engaging the side sections and bracing and supporting the same, the outer rack composed of separable and removable sections and forming between it and the inner rack a feed-trough, and the latch-bars connecting the sections, substantially as described. 10

2. The combination of the runners, the bars 34, journaled between the ends of the runners and provided with slots or openings 35, the pivoted latches, and the tongue having its 15 rear end adapted to enter the openings or slots 35 and be engaged by the latches, substantially as described.

3. The combination of the runners, the bars 34, journaled between the runners and pro-

vided with slots or openings 35, the pivoted 20 latches, the tongue having its rear end adapted to enter the openings or slots 35 and to be engaged by the latches and having the cross-bar 40, and the segmental runners arranged at the ends of the cross-bar 40, substantially 25 as described.

4. The tongue having the cross-bar 40 and provided with segmental pieces 41, forming runners and arranged at the ends of the cross-bars, substantially as described. 30

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

REED I. LAPHAM.

Witnesses:

L. R. HARBERT,  
A. N. SEAMSTER.