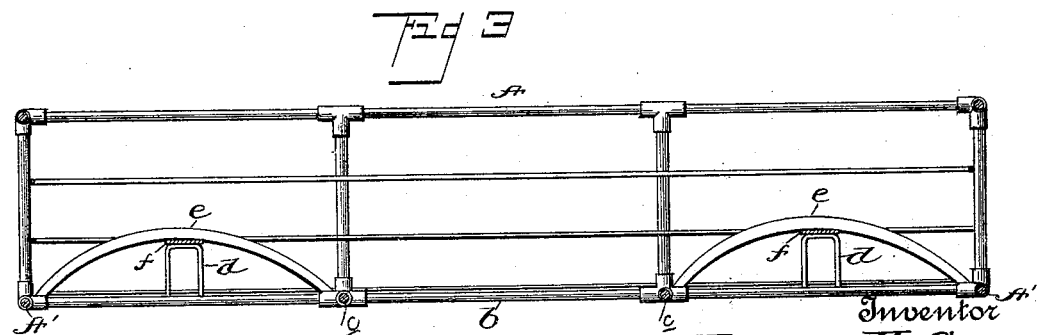
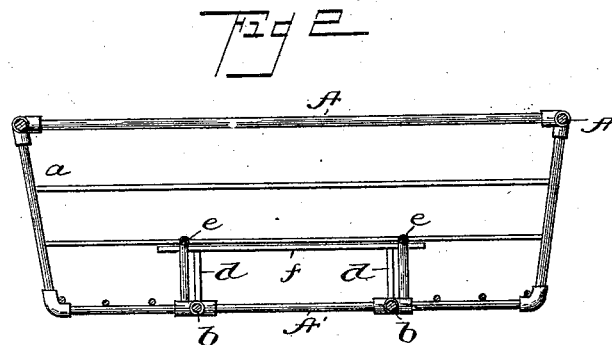
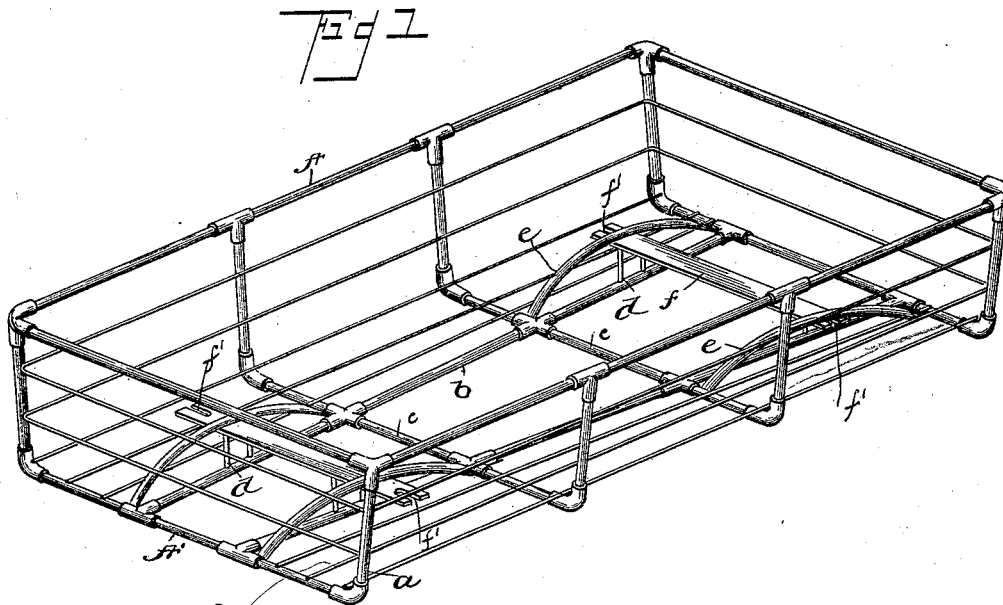


(No Model.)

W. H. CAPELLEN & H. A. CRABTREE.
HAY RACK.

No. 492,709.

Patented Feb. 28, 1893.



Witnesses

John Shaw.
S. W. Walton.

Inventor
William H. Capellen
and
Henry A. Crabtree
By *L. Deane* Attorney
their

UNITED STATES PATENT OFFICE.

WILLIAM H. CAPELLEN AND HENRY A. CRABTREE, OF LAKE PARK, IOWA.

HAY-RACK.

SPECIFICATION forming part of Letters Patent No. 492,709, dated February 28, 1893.

Application filed July 23, 1892. Serial No. 441,042. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM H. CAPELLEN and HENRY A. CRABTREE, citizens of the United States, residing at Lake Park, in the county of Dickinson and State of Iowa, have invented certain new and useful Improvements in Hay-Racks; and we 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 appertains to make and use the same.

Our invention relates to an improved hay rack and it has for its object to provide for the expeditious and convenient storage and removal of the hay and to these ends the invention consists in the novel combination and construction of parts substantially as herein-after more fully disclosed and pointed out in the claims.

In the accompanying drawings: Figure 1, is a perspective view of our improved hay rack. Fig. 2, is a transverse section of the same. Fig. 3, is a longitudinal section.

In the embodiment of our invention, we construct the rack or frame of longitudinal, preferably gas-pipe like, pieces *A*, having secured thereto similar transverse pieces *A'*, their points of connection being effected preferably by T pipe-couplings. The longitudinal and transverse pieces *A*, *A'*, are curved to form the ends and sides of the rack, respectively, and these have strung along them at the bottom and sides wire braces *a*, *a*, suitably connected thereto, more fully adapting the rack or frame for its intended purpose. The bottom of the rack or frame also has extending throughout its length approximately parallel, spaced-apart gas-pipe like pieces *b*, and nearly in alignment with these are secured upwardly bowed short truss-braces *e*, with their ends

secured to transverse pieces *A'*, and resting at their centers upon bent or inverted V-shaped bolts or pieces *d*, secured to other cross-pieces *b'*, opposite truss-braces being arranged near the ends of the rack or frame.

The pieces *b*, are connected or braced together near the ends of the truss-braces *e*, by transverse tie-pieces or braces *c*, and across the bowed truss-braces, about centrally thereof are secured plates or bars *f*, having their ends notched or recessed as at *f'* to receive the bolster-standards of the wagon running gear upon which the rack is placed when in use.

We now claim—

1. The hay rack herein described composed of the longitudinal and transverse gas-pipe-like pieces coupled at their junction, the longitudinal central braces, the central transverse braces, the transverse plates on the central braces near their ends, and the bowed side braces on the couplings of the central longitudinal braces and resting on the said plates, substantially as specified.

2. The hay rack herein described, composed of the longitudinal and transverse gas-pipe-like pieces coupled at their junction and having their ends curved, the longitudinal and transverse braces, the transverse plates on the central braces near the ends, having notched ends, and the bowed braces on the couplings of the central longitudinal braces and resting on the said plates, substantially as specified.

In testimony whereof we affix our signatures in presence of two witnesses.

WILLIAM H. CAPELLEN.
HENRY A. CRABTREE.

Witnesses:

F. W. TUTIN,
A. M. PATCH.