

C. GRAHAM.
Hay-Rack.

No. 215,914.

Patented May 27, 1879.

Fig. 1.

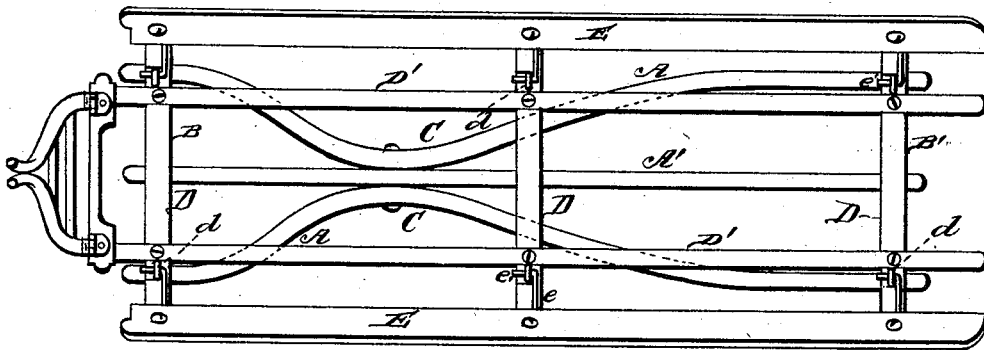
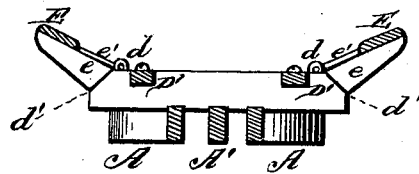


Fig. 2.



WITNESSES

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CYRENUS GRAHAM, OF KALKASKA, MICHIGAN.

IMPROVEMENT IN HAY-RACKS.

Specification forming part of Letters Patent No. **215,914**, dated May 27, 1879; application filed April 12, 1879.

To all whom it may concern:

Be it known that I, CYRENUS GRAHAM, of Kalkaska, in the county of Kalkaska and State of Michigan, have invented certain new and useful Improvements in Hay-Racks; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a plan of my hay rack. Fig. 2 is a vertical sectional view of the same.

My invention relates to hay-racks; and it consists in body or foundation pieces being curved or bent inward horizontally in rear of the front wheels of the wagon; and it also consists in the manner of attaching the fenders or extended hay-supporters to the body of the rack, as will more fully herein appear.

A represents the sills or foundation-timbers of a hay-rack. B represents the fore bolster, and B' the rear bolster, of the wagon. C represents inward horizontal curves in the sills just in the rear of the fore bolster. There may be a third or central sill, A', if desired, for greater strength. The value of this feature of my invention consists in providing for the inward movement of the fore wheels in making short turns with the wagon. This feature is of great practical value in managing a wagon heavily loaded with hay, especially in gathering the hay on the farm.

D are transverse beams attached to and connecting the sills A and A'. These beams are tied together by the stringers D', and they are provided with eyes *d* and constructed with the shoulders *d'*.

E E are side rails or hay-supporters and wheel-fenders, to which are attached the arms *e e e* and hooks *e' e' e'*. The hooks being inserted in the eyes the butts of the arms engage with the shoulders of the beams D and support the side rails in position, as shown. I do not intend to confine myself to this particular form of hook and eye as described. The hooks are located in channels in the arms to prevent them from unhooking by accident.

The rack is also provided with the common ladder-standard in front hinged to the rack, as shown. By disconnecting the side rails this hay-rack can be readily used for other farm purposes, such as hauling wood, &c.

What I claim is—

In a hay-rack, the horizontal sills A, provided with the inward curves C, and the transverse beams D, provided with the eyes *d* and shoulders *d'*, in combination with removable fenders E, having hooks *e'*, substantially as and for the purposes set forth.

In testimony that I claim the above I have hereunto subscribed my name in presence of two witnesses.

CYRENUS GRAHAM.

Witnesses:

WM. L. STOUGHTON,
FRANK S. PACKARD.