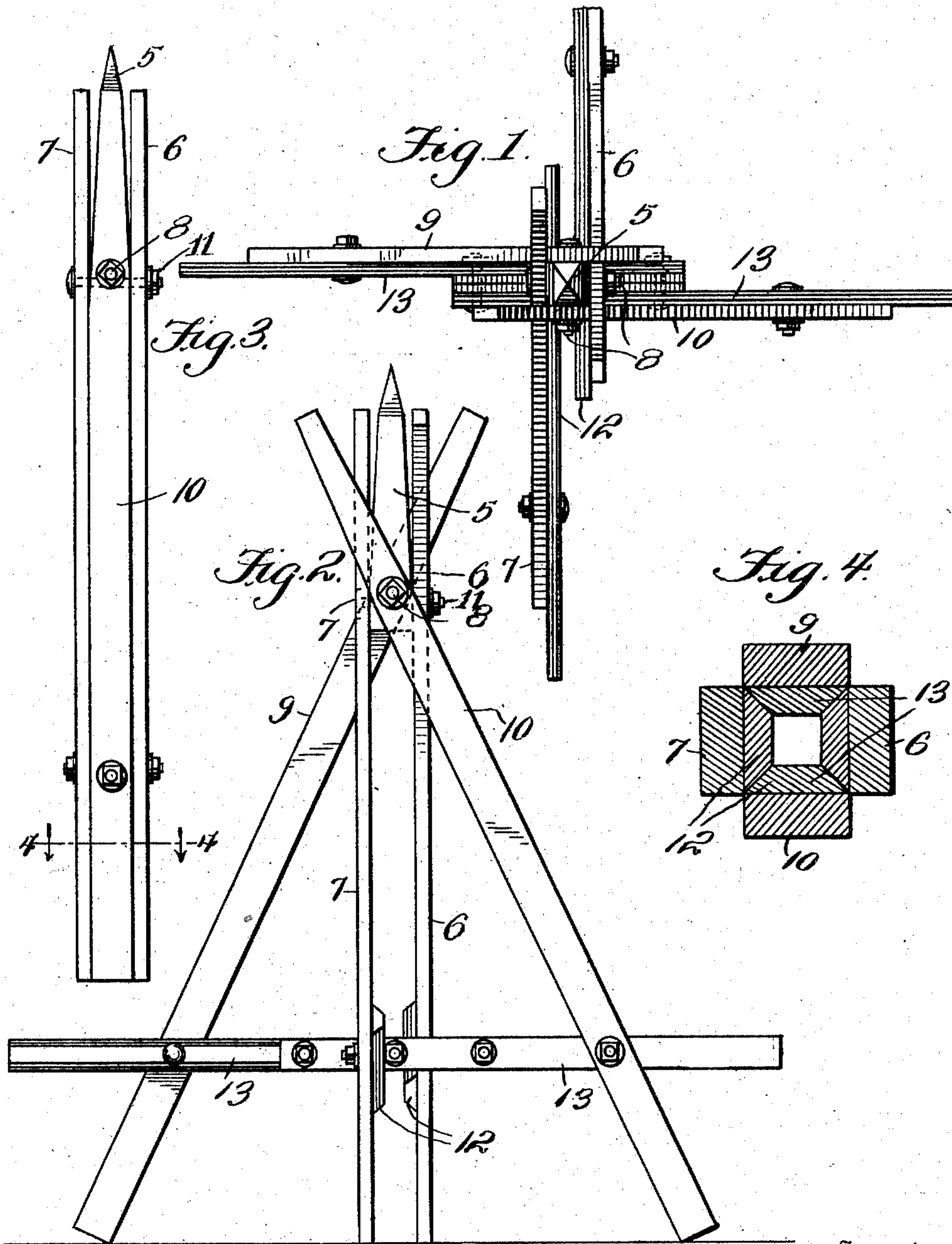


N. M. ROSIER.  
FOLDING HAY RACK.  
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967,060.

Patented Aug. 9, 1910.



Witnesses

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# UNITED STATES PATENT OFFICE.

NEIL M. ROSIER, OF AUGUSTA, GEORGIA.

FOLDING HAY-RACK.

967,060.

Specification of Letters Patent.

Patented Aug. 9, 1910.

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*To all whom it may concern:*

Be it known that I, NEIL M. ROSIER, a citizen of the United States of America, residing at Augusta, in the county of Richmond and State of Georgia, have invented new and useful Improvements in Folding Hay-Racks, of which the following is a specification.

This invention relates to improvements in hay stack frames and has for its object the provision of a device of that kind which may be readily set up and when the hay is placed about the frame to support the stack against toppling.

Another object is the provision of a construction which may be folded into a comparatively small compass when not in use.

A further object is the provision of a frame which may be adjusted laterally according to the diameter of the stack required.

With these and other objects in view which will more fully hereinafter appear, the present invention consists in certain novel details of construction and arrangement of parts, hereinafter fully described, illustrated in the accompanying drawings and more particularly pointed out in the appended claims, it being understood that various changes in the form, proportion, size, and minor details of the device may be made within the scope of the appended claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawings, forming a part of the specification:—Figure 1 is a plan view of the device. Fig. 2 is a side elevation of the same, with the parts in unfolded position. Fig. 3 is a similar view with the parts in folded position. Fig. 4 is a sectional plan on the line 4—4 of Fig. 3.

Similar numerals of reference are employed to designate corresponding parts throughout.

The device includes in its construction a head piece designated by the numeral 5. This member is parallelogrammatic in cross section and considerably less in length than the supports about to be described. Pivoted to the opposite sides and adjacent the lower ends of the head piece are a plurality of supports of any convenient length and having their upper end portions corresponding in width to the faces of the head piece. By virtue of the cross sectional contour of the

head piece 5 and the upper end portions of the supports, corresponding in width to the faces of the head piece, it will be evident that one pair of supports will be of less width at the upper ends than the opposite pair. The wider of these supports are designated by the numerals 6 and 7 and have their upper end portions provided with openings which aline with similar openings formed in the wider flat faces of the head piece 5, the said opening receiving a pivot pin 8 by means of which the supports are pivoted to the standard. The narrower supports are designated by the numerals 9 and 10 and adjacent their upper ends are provided with openings formed in the narrower faces of the head piece and directly above the openings for the pivot pin 8, these alining openings receiving a pivot pin 11 by means of which the supports 9 and 10 are pivoted to the head piece. With this construction it is evident that when the supports of each pair move outwardly in opposite directions that a frame will be provided over which hay may be placed so as to form a stack.

In order to guard against movement of the supports when in unfolded position, as shown in Fig. 2, and at the same time to provide an adjustment whereby the lower ends of the supports may be secured at any required angle to the head piece, the following construction is employed:—By reference now to Figs. 1 and 2, it will be seen that a pair of braces 12 are employed. These members have their medial portions pivoted to the supports 6 and 7. The braces are so constructed that they may be folded parallel with the supports when the device is not in use and have their opposite sides beveled for a purpose to appear later. A second pair of braces 13 are employed and have their medial portions pivoted to the lower end portion of the supports 9 and 10 while their inner ends are provided with openings for suitable fastening means to secure them together when the device is set up.

As shown in Figs. 1 and 2, it will be seen when the frame is in set up position the inner ends of the braces 12 will bear on the connected inner end portions of the braces 13, whereby downward movement of the braces 12 will be prevented. The braces 12 correspond in thickness to approximately one-half the distance between the narrow faces of the head piece, while the braces 13 corre-



spond in thickness to approximately one-half the distance between the wide faces of the head piece. Thus it will be seen when the supports are folded into a position parallel with the head piece 5, by virtue of the unequal thickness of the braces and their beveled sides spaces will be provided by the beveled sides of the braces 12 to receive the beveled portions of the braces 13, whereby all of the braces will be within the space bounded by the supports and in the plane of the head piece.

From the foregoing it can be seen that the construction is exceedingly simple and adapted to perform its function with the employment of comparatively few parts. It will be further observed that the stack formed around one of these frames will be supported against toppling in a more satisfactory manner than when an ordinary pole is driven into the ground and a stack formed around the same.

Having thus described the invention, what is claimed, is:—

25 1. A hay stack folding frame comprising a head piece, a plurality of pairs of supports

having their upper end portions pivoted to the lower end portion of the head piece, and a plurality of braces having their inner ends pivoted together and their medial portions pivotally secured to said braces. 30

2. A hay stack folding frame comprising a head piece, a plurality of pairs of supports considerably greater in length than the length of the head piece and having their upper end portions pivoted to the lower end portion of the head piece, and a plurality of braces having their inner ends pivoted together and their medial portions pivoted to said supports, said braces being approximately one-half the thickness of the head piece whereby they may be folded between the supports when the latter are parallel with the head piece, and means for adjustably securing the said outer end portions of the braces. 35 40 45

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

NEIL M. ROSIER.

Witnesses:

G. LLOYD PREACHER,  
P. P. SCROGGS.