

No. 697,274.

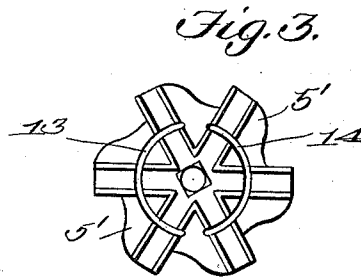
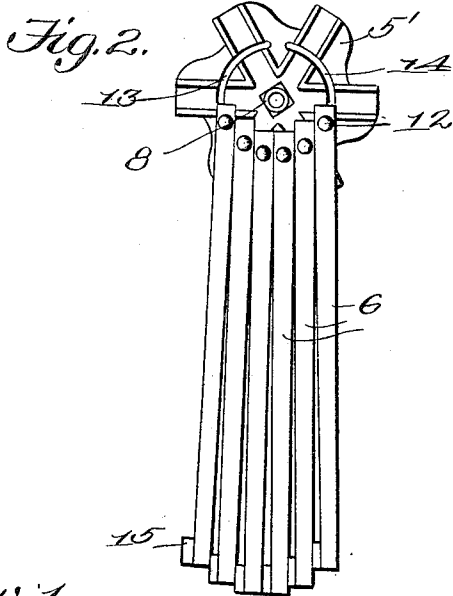
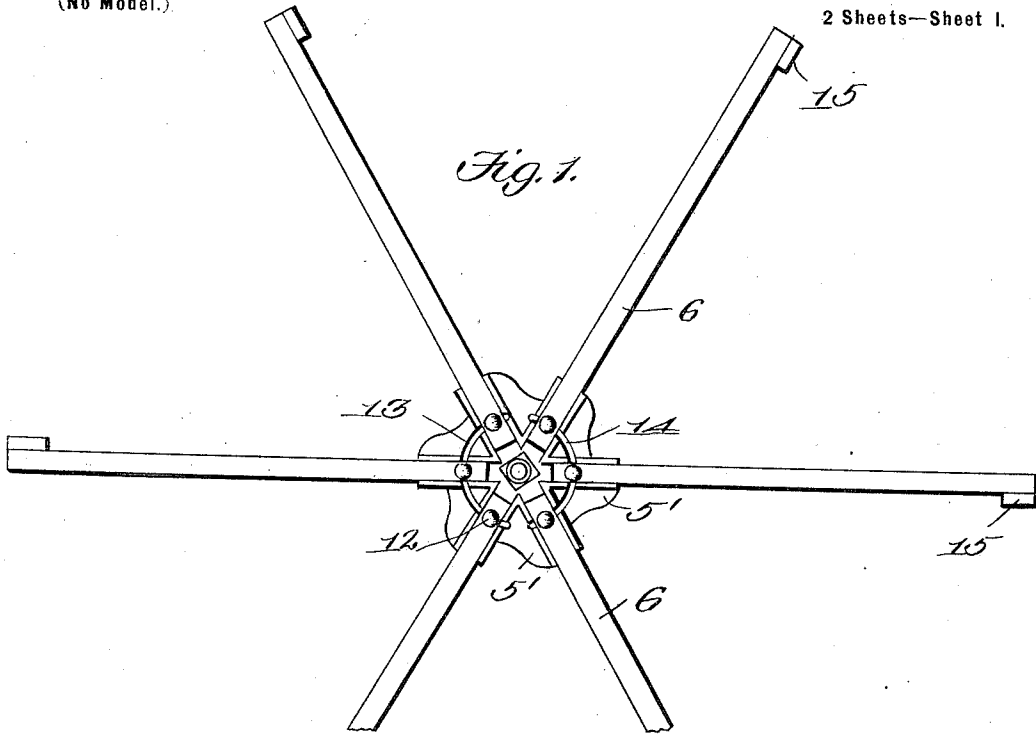
Patented Apr. 8, 1902.

C. W. PRIESTLEY.
HARVESTER REEL.

(Application filed Oct. 10, 1901.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses:
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Dennis Cumberly

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By *James L. Norris*
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2 Sheets—Sheet 2.

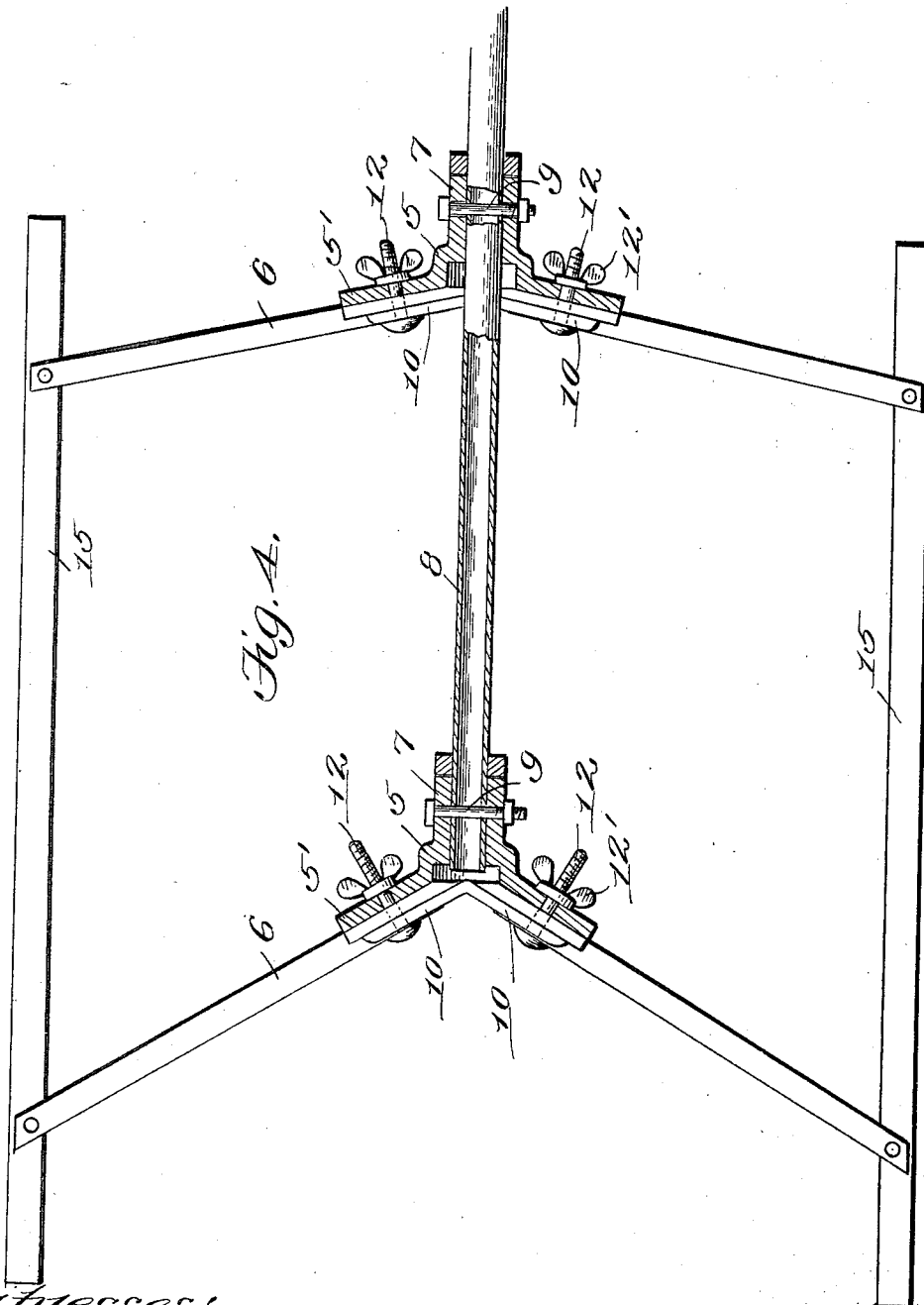


Fig. 4.

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UNITED STATES PATENT OFFICE.

CHARLEY WYATT PRIESTLEY, OF SHARON, TENNESSEE.

HARVESTER-REEL.

SPECIFICATION forming part of Letters Patent No. 697,274, dated April 8, 1902.

Application filed October 10, 1901. Serial No. 78,264. (No model.)

To all whom it may concern:

Be it known that I, CHARLEY WYATT PRIESTLEY, a citizen of the United States, residing at Sharon, in the county of Weakley and State of Tennessee, have invented new and useful Improvements in Harvester-Reels, of which the following is a specification.

This invention relates to harvester-reels, the object being to provide an improved device of this character which is capable of being collapsed without separating the braces from the hub, and it is thoroughly simple and of such construction that it can be put into its effective condition or unfolded with rapidity and facility, and when it is folded or collapsed it occupies but a relatively small amount of space, thereby saving storage-room on a farm or during shipment.

The improved reel includes a hub or body and a plurality of diagonal braces extending therefrom and fastening devices connecting said parts disposed in curved ways formed in the body. These curved ways consist, preferably, of slots and the fastening devices of bolts extending through said slots. When the nuts of the bolts are tightened, the braces will be held in their working positions, and when they are loosened the braces can be so moved as to be placed side by side, the bolts during this action traversing such slots. The inner ends of said braces fit in seats or grooves in the hub, which prevent lateral motion of said braces when in their effective positions.

The improved reel is clearly represented in the accompanying drawings, forming a part of this specification, and in which—

Figure 1 is an end view of said reel in its working position, portions of two of the braces being removed. Fig. 2 is a similar view showing the same in its collapsed condition. Fig. 3 is a detail face view of a hub. Fig. 4 is a sectional front elevation of the reel.

Like characters refer to like parts in all the figures of the drawings.

The reel includes in its construction the hubs or bodies, as 5, consisting, preferably, of dished or concaved plates having radial arms, as 5', against which the braces 6 fit, the hubs with their arms forming substantially star-shaped structures and the plates being of sufficient thickness to secure strength. A sleeve or socket, as 7, extends inward from

each hub or body 5, and the usual reel-shaft 8, which is shown as being hollow, passes through said sleeves, said sleeves being perforated to receive bolts, as 9, which also pass through said shaft and hold the reel on the shaft. The inner ends of the braces 6, which are diagonal, as is customary, fit against the dished or concaved faces of the respective hubs 5, said faces being of an inclination to agree with those assumed by the respective braces when in their normal positions, and said inner ends fit in radial seats or grooves suitably formed in the hub. These seats or grooves in the present case are produced by projections or ribs, as 10, formed on said concaved or outer faces, they being arranged in pairs and each pair receiving a brace. These ribs extend to the outer ends of the arms 5' and serve to strengthen the device.

The inner ends of the braces 6 are perforated to receive bolts, as 12. Six braces are shown projecting from each hub, and hence there is a corresponding number of bolts, and, referring to Fig. 1, which shows one of the hubs 5, three of said bolts pass through the curved slot 13, while the remainder pass through a similar slot 14, the ends of the slots being separated but short distances. These slots, which intersect the projections or ribs 10, are just a trifle less than half-circles and have a common center or form segments of a common circle. The nuts of the bolts bear against the inner face of the hub 5 and have projections or wings, as 12'.

In Figs. 1 and 4 the inner ends of the braces 6 are shown as occupying their seats in the hub 5, the nuts of the bolts 12 being set firmly against the inclined and convex faces of the hubs, Fig. 4, this being the normal position of the parts. To fold the reel, the nuts will be loosened and the braces swung down to the position shown in Fig. 2, the bolts 12 during this operation traversing the slots 14. When thus shifted, the braces at each side of the reel occupy a position side by side and take up a very small amount of space as compared with the reel when in its normal position. To restore the parts to their normal positions, this operation will be reversed. Before the braces can be swung around the inner ends thereof will of course have to be carried clear of the ribs or projections 10. The

latter are shallow, so that a small amount of unscrewing of the nuts of the bolts 12 is necessary to free the braces from said ribs. These ribs act normally to prevent sidewise movement of the braces when the nuts are set. The braces are connected by the usual reel-arms 15 at their outer ends.

The shaft 8 may be driven in any suitable manner, although no means is shown for this purpose. Both plates 5 are inclined in the same direction, so as to reduce the length of said shaft, and although said shaft is shown as provided with two of such plates this is not absolutely necessary, for in some cases one of them may be omitted.

In collapsing the reel the nuts of the bolts 12 will be first loosened by a wrench, and thereafter the projections 12' of said nuts can be engaged by the finger and thumb of the operator, to be unscrewed the rest of the way by hand.

The invention is not limited to the exact construction shown and described, for many changes within the scope of the appended claims may be made.

Having described the invention, I claim—

1. In a reel, a hub having curved ways, the curves of which are concentric with the axis of said hub, braces extending from the hub; and fastening devices uniting said parts, fitted in said curved ways, substantially as described.

2. In a reel, a hub having curved slots, the curves of which are concentric with the axis of said hub, braces extending from said hub,

and fastening devices uniting said parts extending into said slots, substantially as described.

3. In a reel, a hub having curved slots, braces extending from said hub and bolts passing through the braces and also through the slots, and the hub having seats to receive the inner ends of said braces, substantially as described.

4. In a reel, a hub having curved ways and grooves, braces, the ends of which are fitted in said grooves, and fastening devices uniting the braces and hub and fitted in said curved ways, substantially as described.

5. In a reel, a hub provided with an inclined face having projections arranged in pairs and curved slots intersecting said projections, braces fitted against said face and arranged between said projections, and fastening devices uniting the braces and hubs and fitted in said curved ways.

6. In a reel, a hub having an inclined face and provided with radial arms, projections on said face and arms and curved slots in said face intersecting said projections, braces between said projections, and bolts passing through said braces and slots.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

CHARLEY WYATT PRIESTLEY.

Witnesses:

J. A. HOWARD,
JNO. M. PRIESTLEY.