J. I. MOORE.

CASTER WHEEL FOR HARVESTING MACHINES.

APPLICATION FILED SEPT. 26, 1910.

980,817. Patented Jan. 3, 1911.

Fig. 1.

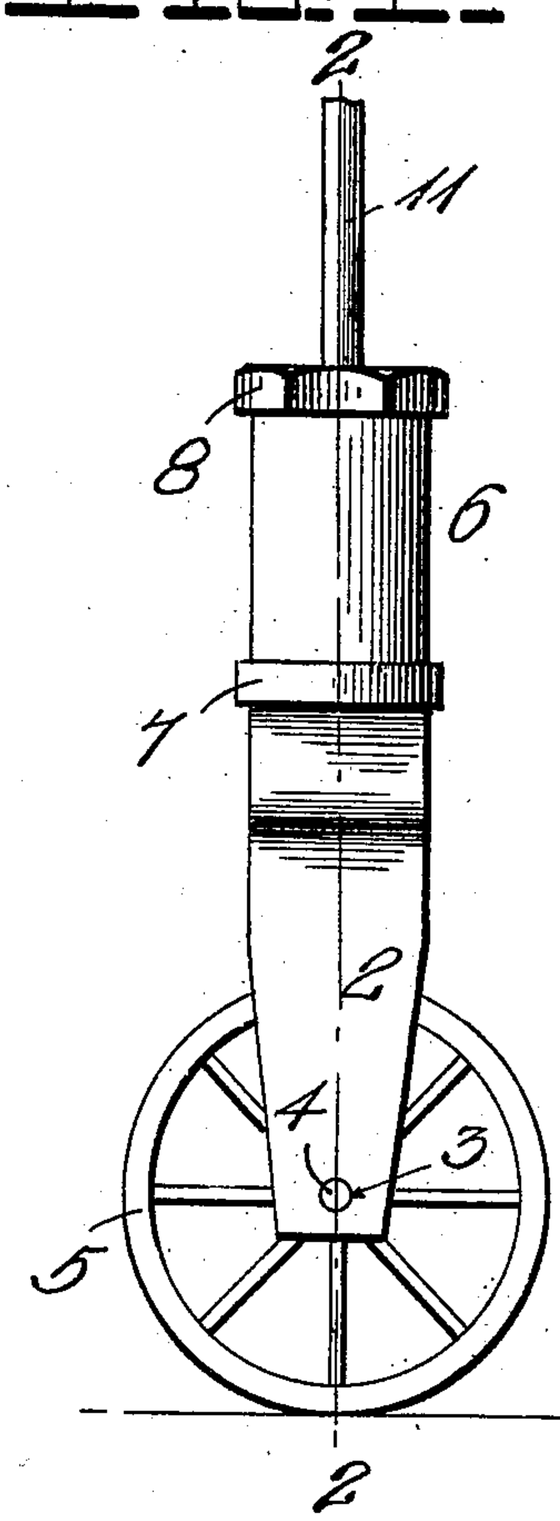


Fig. 2.

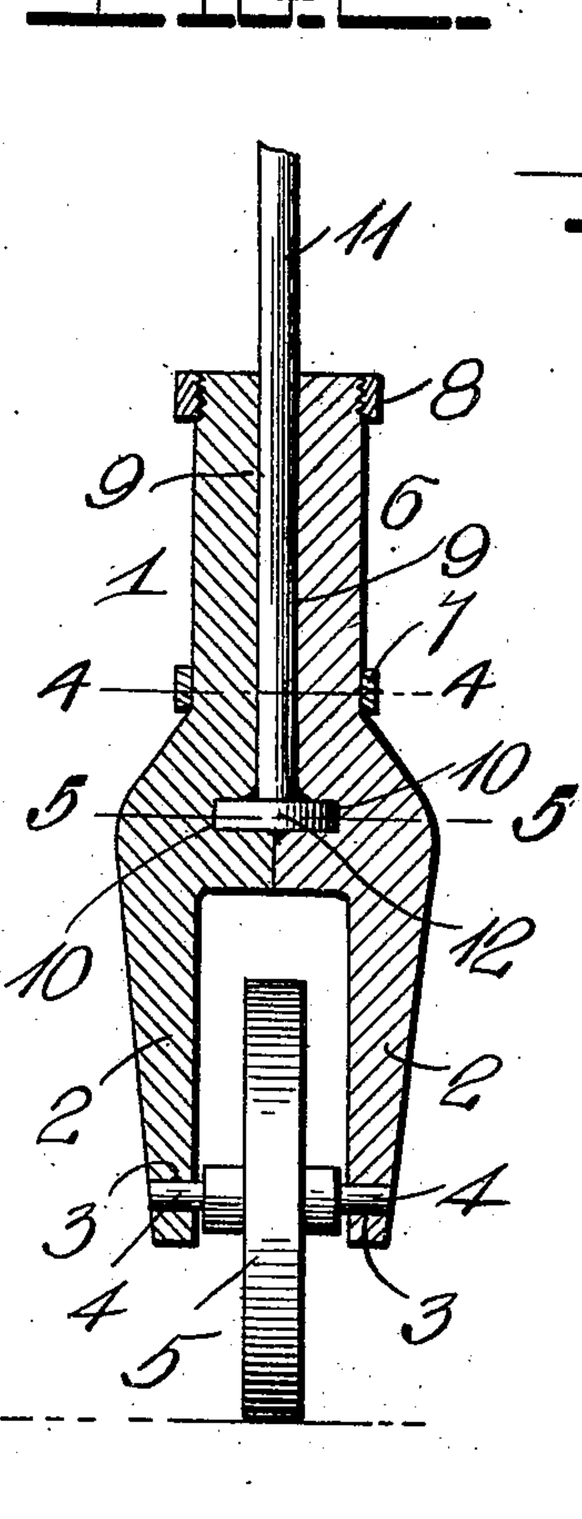


Fig. 3.

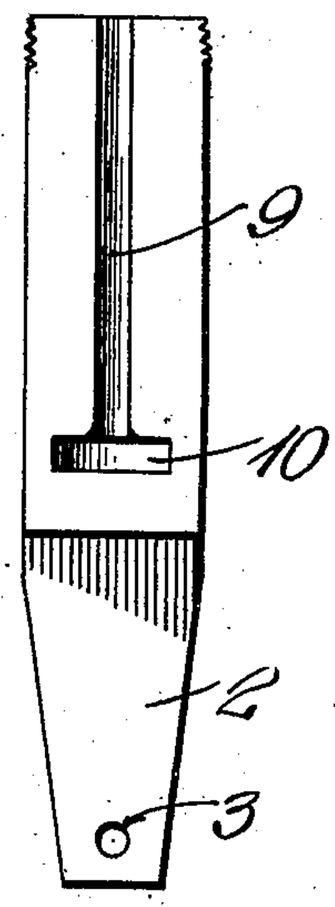


Fig. 4.

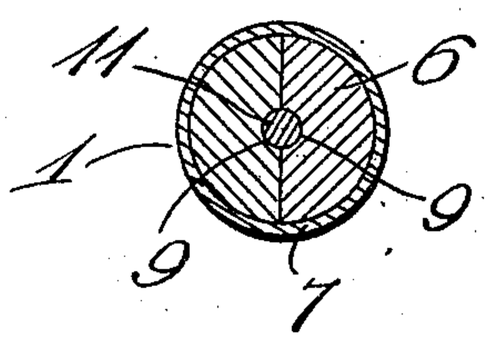
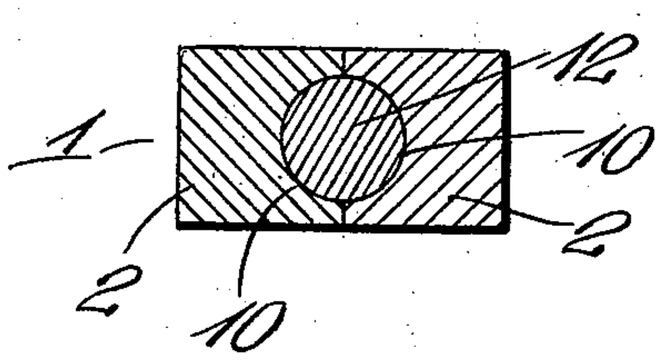


Fig. 5.



Witnesses

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CASTER-WHEEL FOR HARVESTING-MACHINES.

980,817. Specification of Letters Patent. **Patented Jan. 3, 1911.**

Application filed September 26, 1910. Serial No. 583,841.

To all whom it may concern:

Be it known that I, JAMES I. MOORE, a citizen of the United States, residing at Roodhouse, in the county of Greene and State of Illinois, have invented certain new and useful Improvements in Caster-Wheels for Harvesting-Machines; and I do 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.

This invention relates to improvements in caster wheels for harvesting machines.

One object of the invention is to provide a caster wheel for harvesting machines having an improved construction of supporting mechanism and means for revolubly connecting the staff of the wheel thereto.

With this and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claim.

In the accompanying drawings: Figure 1 is a side view of my improved caster wheel and its supporting mechanism; Fig. 2 is a vertical sectional view of the same on the line 2—2 of Fig. 1; Fig. 3 is an inner side view of one half of the supporting frame; Fig. 4 is a horizontal sectional view on the line 4—4 of Fig. 2; Fig. 5 is a similar view on the line 5—5 of Fig. 2.

Referring more particularly to the drawings, 1 denotes the supporting frame of the wheel, said frame being formed in two counterpart sections, said sections having offset tapered lower ends 2 which when the sections are secured together form the fork for the wheel. In the lower ends of the fork are formed alined bearing passages 3 in which are revolubly mounted the journals or ends 4 of the caster wheel 5 which is thus revolubly mounted in the forked lower end of the frame.

The upper portion of the frame 1 when the sections are brought together forms a neck 6 with which adjacent to the upper portion of the forked end is engaged a clamping band 7 and on the upper end of which is arranged a clamping nut or ring 8, said ring or nut preferably having a screw threaded engagement with the upper end of the neck as shown.

In the flat engaging inner sides of the frame sections are formed vertically disposed semi-cylindrical grooves 9 which when the sections are brought together form a cylindrical passage. In the inner sides of the frame sections at the inner ends of the grooves 9 are formed semi-cylindrical recesses 10 which when the sections of the frame are brought together form a circular socket. In the cylindrical passage formed by the groove 9 and the circular socket formed by the recesses 10 is arranged a staff 11 said staff having on its inner end a flat circular retaining disk or head 12 which engages the circular socket formed by the recesses 10. The frame when thus engaged with the staff 11 will revolve freely thereon and is thereby operatively secured to the front end of the harvesting machine to support the tongue and will turn freely in any direction in which the machine is guided.

From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention as defined in the appended claim.

Having thus described my invention, what I claim is.

In a caster wheel, a supporting frame constructed in two counterpart sections having their lower ends offset to form the fork of the wheel and having formed in their engaging surfaces alined grooves, recesses adapted to form a circular bearing passage and recess, a staff revolubly engaged with said passage, a circular head on the lower end of said staff to engage said recess whereby said frame is revolubly supported by the staff, a clamping ring band arranged around the intermediate portion of the frame and a clamping nut having a threaded engagement with the upper end of the frame whereby the parts of the same are secured together and a caster wheel revolubly mounted in said fork.

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

JAMES I. MOORE.

Witnesses:

ISAAC ALLEN,

HAZLE AULGUR.