C. PARR.

PAPER BALER.

APPLICATION FILED JAN. 29, 1910.

968,793.

Patented Aug. 30, 1910.

2 SHEETS—SHEET 1.

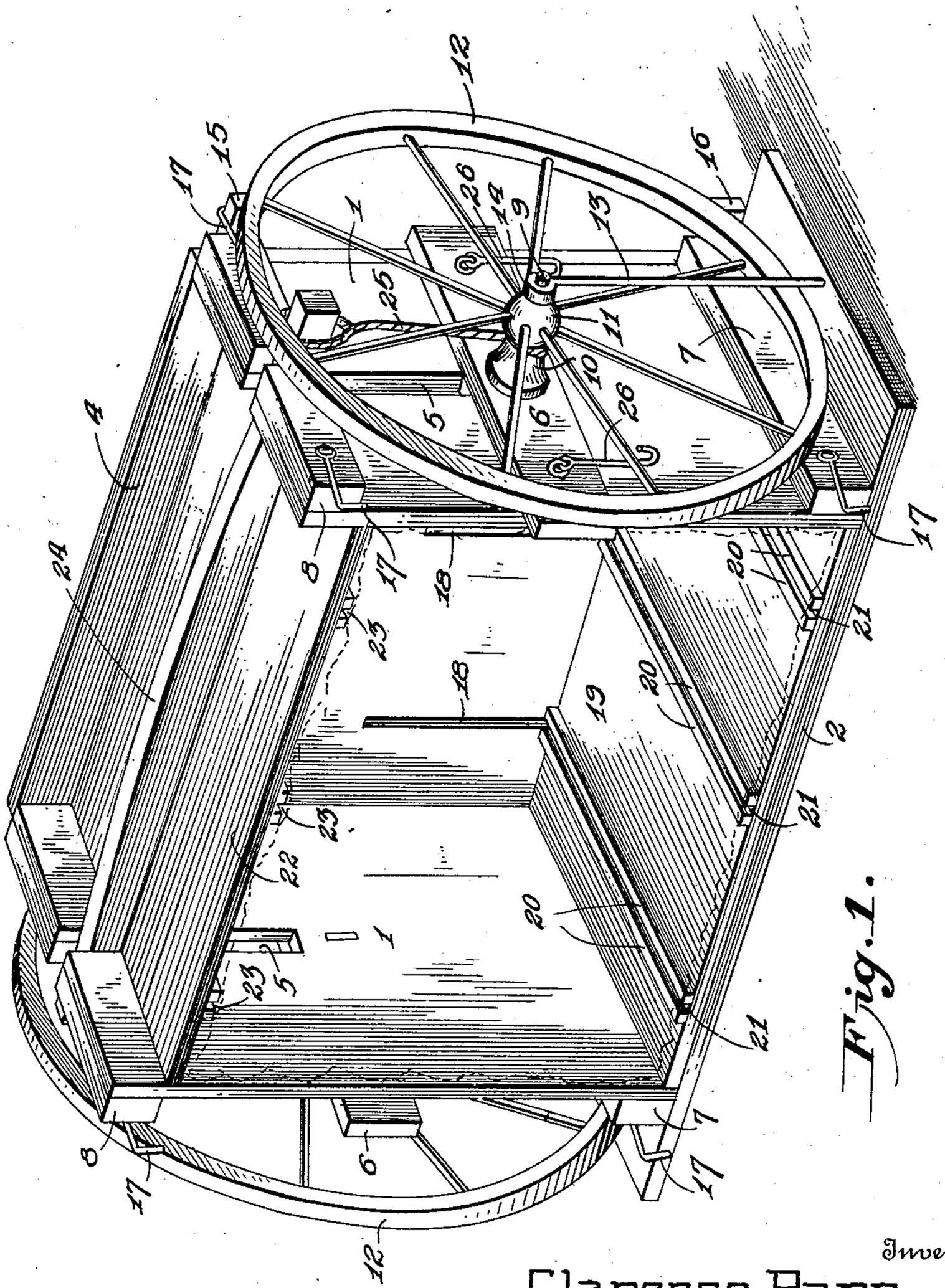

Fig. 1.

Witnesses

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2 SHEETS—SHEET 2.

Fig. 2.

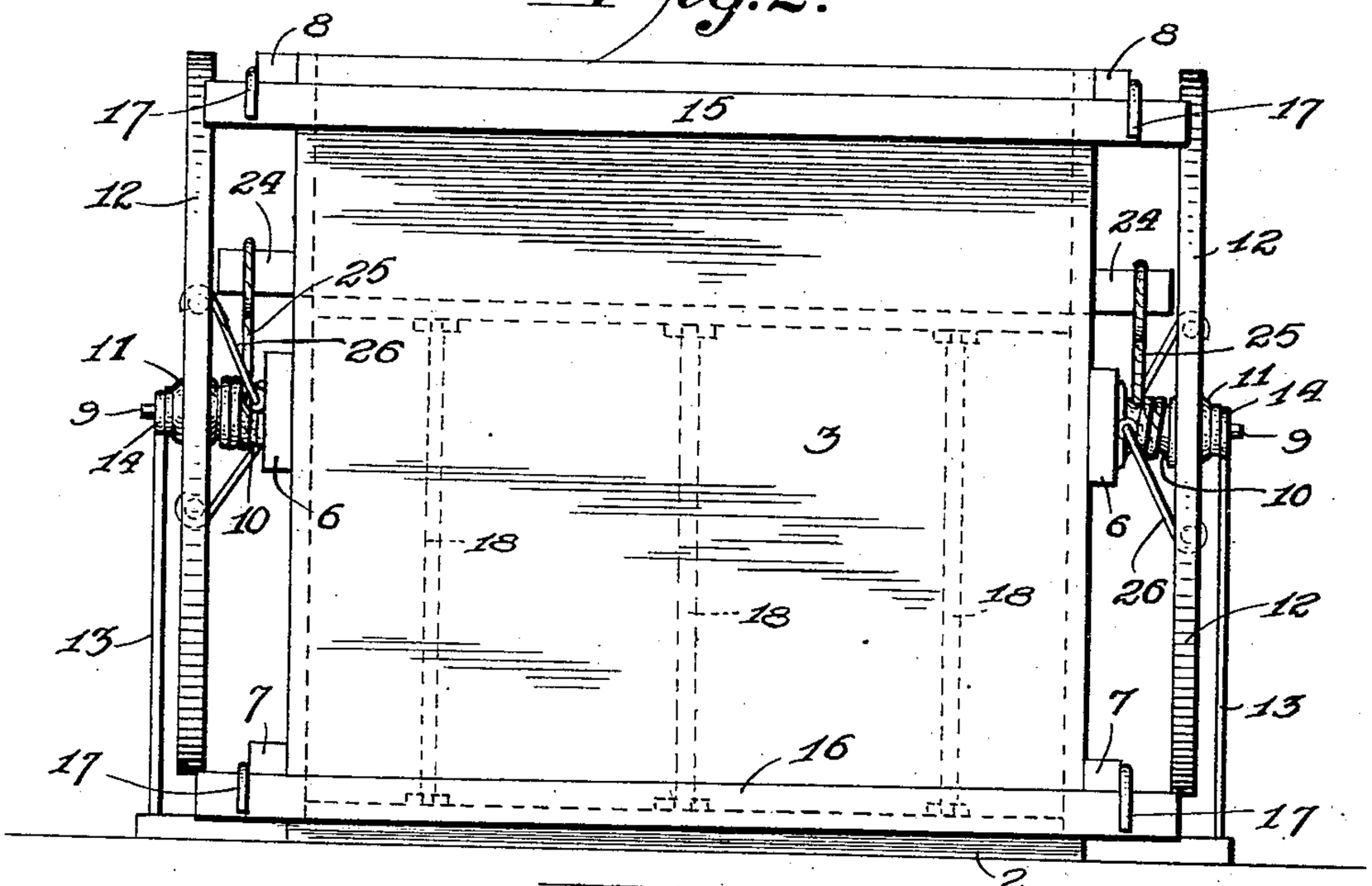
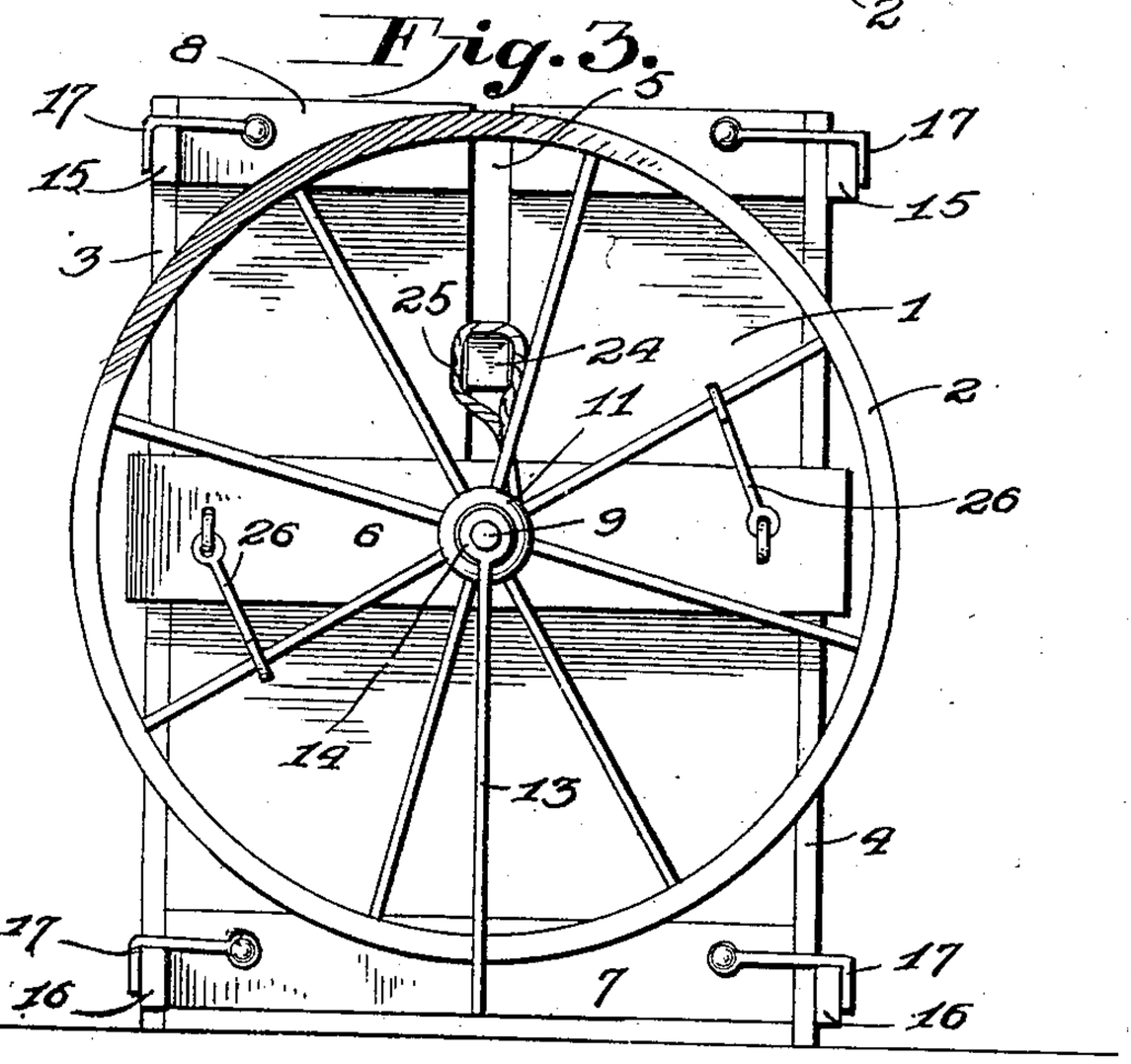


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

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PAPER-BALER.

968,793. Specification of Letters Patent. **Patented Aug. 30, 1910.**

Application filed January 29, 1910. Serial No. 540,889.

To all whom it may concern:

Be it known that I, CLARENCE PARR, a citizen of the United States of America, residing at Davenport, in the county of Scott and State of Iowa, have invented certain new and useful Improvements in Paper-Balers, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to baling presses of the manually operable type, and the principal object of the same is to provide novel means whereby the pressure upon the baled material is obtained, said means also facilitating the transportation of the press.

In carrying out the object of the invention generally stated above it will be understood, of course, that the essential features thereof are necessarily susceptible of changes in details and structural arrangements, one preferred and practical embodiment of which is shown in the accompanying drawings, wherein:—

Figure 1 is a perspective view of the improved baling press, the front cover being removed. Fig. 2 is a view in front elevation. Fig. 3 is an end view.

Referring to said drawings by numerals it will be observed that the improved baling press consists of a press box formed of the ends 1, bottom 2, and removable front and rear covers 3—4. The bottom 2 is flat and projects beyond the ends 1 to provide an elongated base that will rest firmly upon the surface that supports the press box. The ends 1 are each provided with a vertical guide slot 5 that extends from their upper edge to substantially the center of said ends, and said ends are reinforced by the transversely extending intermediate, bottom, and top strips 6, 7, 8, which are suitably fastened upon the outer surface of said ends. The intermediate strips 6 have their ends projecting slightly beyond the longitudinal edges of the ends 1, and each strip, at its center is equipped with outwardly projecting, laterally arranged stub axle 9 upon which a winding drum 10 is mounted, said drums bearing against intermediate strips 6, and each drum forming a part of the hub 11 of a wheel 12. An upstanding supporting bar 13 is carried by each projecting end of the bottom 2, the outer end of said bars being provided with an eye 14 that fits over the outer end of the stub axles 9 so that a support is provided for each axle that also serves to retain the wheels thereon.

The front and rear covers 3—4 are each provided on their outer surface with upper and lower strips 15—16 the ends of which project beyond the ends of the covers and are adapted to be engaged by the hooks 17 pivotally connected to the upper and lower strips 7—8 of the ends of the press box to firmly but detachably hold said covers in position on the press box. Rear cover 4 is provided with three spaced-apart vertical slots 18 which extend from its lower edge to approximately the center of the cover.

A loose platen 19 is provided for the bottom of the press box, said platen being provided on its upper surface with transversely arranged spaced-apart pairs of strips 20 which provide grooves 21 that communicate with the slots 18 of rear cover 4 so that the usual baling wires may be readily passed through said grooves and slots.

An upper platen 22 for the top of the press box is similar in all respects to lower platen 19 excepting that its wire receiving grooves 23 are on its under surface. Said upper platen 22 is forced onto the top of the material to be baled by means of the compressor beam 24 slidably mounted in the guide slots 5 of the ends of the press box, the ends of said beam projecting beyond the guide slots and having one end of a cable 25 suitably attached thereto, the other end of said cables being wound upon the drums 10. Preferably the two cables are oppositely wound upon their respective drums so that the strain upon the ends of the press box will be equalized.

A pair of hooks 26 are swiveled to the intermediate strip 6 of each end of the press box, said hooks being adapted for engagement with opposite spokes of the wheels 12 so that said wheels may be locked against reverse movement.

In operation the material to be baled is placed within the press box, the front and rear covers being in position. The top platen 22 is then placed over the material and by means of the beam 24 and its cable connections with the drums 10, said material is compressed. The wheels are then locked by means of the hooks 26, after which the front cover 3 is removed so that the baling wires may be passed through the grooves of the top and bottom platens and

the slots in the rear cover 2, as will be readily understood.

The wheels 12 which control the operation of the winding drums 10 are of greater diameter than the width of the press box, as is shown more clearly in Fig. 3, so that said wheels may be used for transporting the baling press when said press is not in use.

What I claim as my invention is:—

1. A baling press comprising a press box, compressing mechanism therefor, wheels for operating said mechanism and also for transporting said box, and hooks carried by said box for engagement with opposite portions of said wheels for locking the same.

2. A baling press comprising a press box the bottom of which has projecting ends, an axle projecting from each end of said box, a winding drum on each axle, compressing means actuated by said drums, means for operating said drums, and means carried by the projecting ends of the bottom of said box for supporting the outer end of said axles.

3. A baling press comprising a press box, an axle projecting from each end thereof, a supporting bar projecting from each end of the bottom of said box and having an end eye for engagement with the outer end of said axles, compressing mechanism carried by said box, and means carried by said axles for actuating said compressing mechanism.

4. A baling press comprising a press box, reinforcing strips for the ends of said box, an axle projecting from the central reinforcing strip, a winding drum mounted upon said axle, an operating wheel mounted upon said drum, supporting means for the outer end of said axle, pressing means operated by said drum, and hooks loosely mounted upon said intermediate strip and adapted to engage the spokes of said wheel to retain said wheel in a fixed position.

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

CLARENCE PARR.

Witnesses:

HENRY H. JEBENS,

CHAS. H. SPINK.