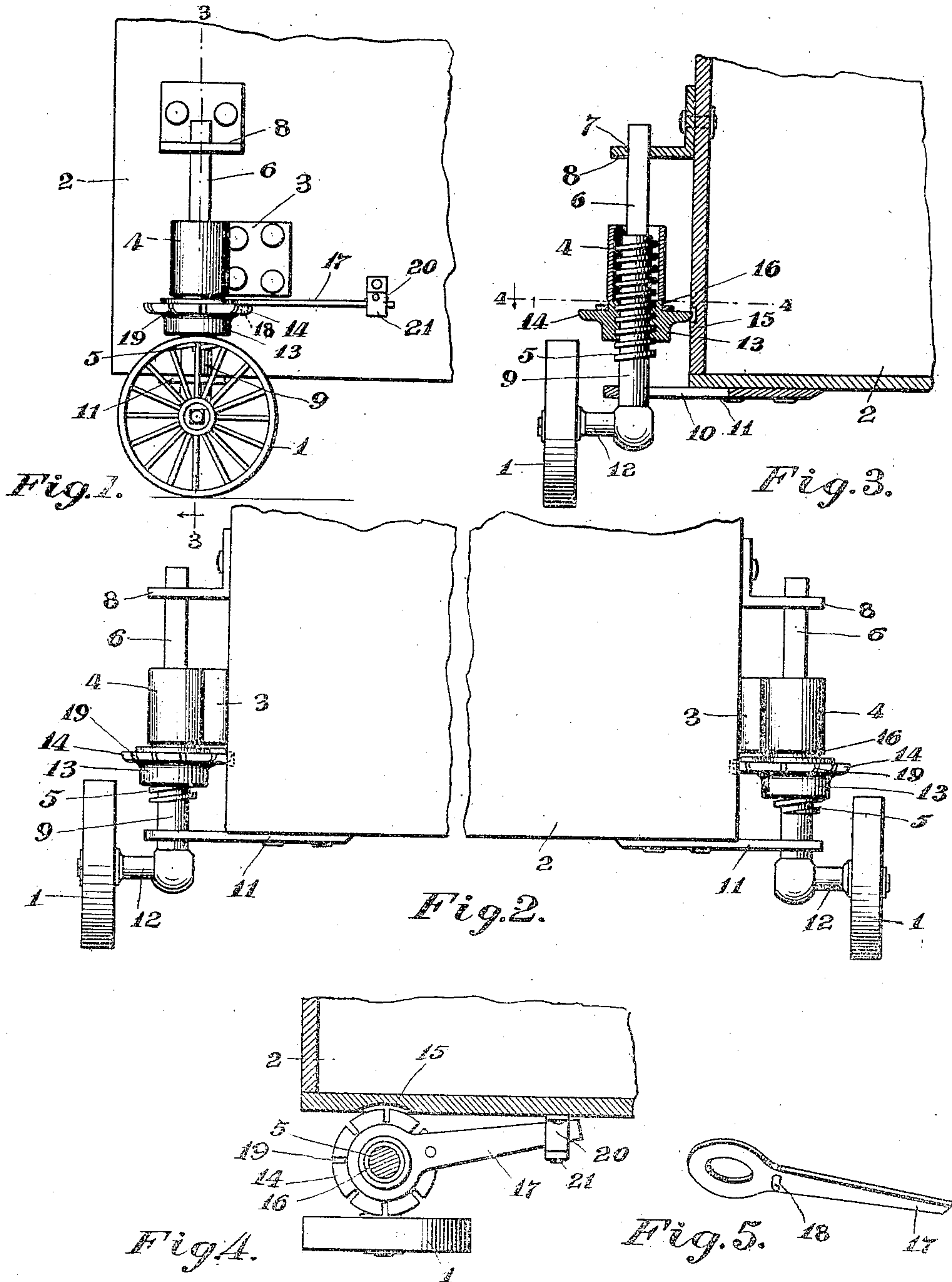


W. A. PENNINGTON.
LEVELING DEVICE FOR THRESHING MACHINES.
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Patented Ju 25, 1911.



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WILLIAM A. PENNINGTON, OF SCRANTON, NORTH DAKOTA.

LEVELING DEVICE FOR THRESHING-MACHINES.

999,123.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM A. PENNINGTON, a citizen of the United States of America, residing at Scranton, in the county of Bowman and State of North Dakota, have invented new and useful Improvements in Leveling Devices for Threshing-Machines, of which the following is a specification.

This invention relates to leveling devices for threshing machines and grain separators, and it has for its objects to provide a simple and efficient device of this character.

A further object of the invention is to provide a simple and efficient leveling device which, after the desired adjustment has been effected, may be securely locked to prevent accidental displacement or disarrangement when the threshing machine to which it is applied is in operation.

With these and other ends in view which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claims.

In the accompanying drawing has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the claims may be resorted to when desired.

In the drawing,—Figure 1 is a side elevation showing a portion of the casing of a grain separator to which the invention has been applied. Fig. 2 is a rear elevation of the same. Fig. 3 is a vertical sectional view taken on the plane indicated by the line 3—3 in Fig. 1. Fig. 4 is a horizontal sectional view taken on the plane indicated by the line 4—4 in Fig. 3. Fig. 5 is a detail view of the wrench detached.

Corresponding parts in the several figures are denoted by like characters of reference.

The present invention may be applied to and used in connection with one or more of the supporting wheels of a threshing machine or grain separator. In the illustration it has been shown as applied in connection with the hind wheels 1 of a threshing machine or separator, the casing of which is shown at 2. Secured upon the sides of the casing 1 are plates 3 having sleeves 4 for the passage of screw threaded rods or bars

5 which slidably engage said sleeves. The screw threaded rods 5 have upward extensions 6 of non-circular cross section which are guided through slots 7 in guide plates 8 secured upon the sides of the casing near the upper end of the latter. The screw threaded rods 5 also have downward non-threaded extensions 9 which are guided through slots 10 in guide plates 11 which are secured upon the underside of the bottom of the casing. The unthreaded extensions 9 of the screw threaded rods 5 are provided near their lower ends with laterally extending spindles 12 upon which the wheels 1 are supported for rotation.

Each of the screw threaded rods 5 is equipped with a nut 13 having a circular flange 14 supporting the sleeve 4 through which the threaded rod 5 slides, said flange being also partly accommodated in a notch or recess 15 in the side of the casing 2. The nut is provided upon its upper side with a boss or projection 16 upon which a wrench member or handle 17 is loosely mounted, said handle being provided with a downwardly extending tooth 18 adapted to engage any one of a plurality of notches 19 formed in the flange 14 of the nut. It will be seen that the nut may be turned by means of the handle or wrench member, thus effecting vertical adjustment of the separator casing which is supported upon the nut by the sleeve 4, the nut being vertically movable upon the screw threaded rod 5, the extension 9 of which carries the supporting wheel. In this manner the casing of the threshing machine may be quickly and effectively adjusted to a perfectly level position, irrespective of the rough and uneven or hilly condition of the ground.

The side of the thresher casing has a laterally extending arm 20 carrying a pivoted latch member 21. When the desired adjustment of the thresher casing has been effected, the wrench or handle is lifted to disengage the tooth 18 from the notches in the flange, after which it is turned about the axis of the screw until it lies adjacent to the side of the casing, after which the said handle is depressed to place the tooth in engagement with the nearest notch in the flange of the nut. The wrench or handle may then be secured against accidental movement by the latch member 21 connected with the arm 20.

From the foregoing description, taken in

connection with the drawing hereto annexed, the operation and advantages of this invention will be readily understood. The construction is simple; the device may be easily applied to threshing machines and separators of various types or patterns, and the invention will be found efficient for the purposes for which it is provided.

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

1. A leveling device for threshing machines including a sleeve secured upon the casing of the machine, a screw threaded rod slidable vertically through the sleeve and having upward and downward extensions which are unthreaded, the upward extension being of non-circular cross section; slotted guide plates for the extensions of the screw threaded rod, a wheel carrying spindle associated with the downward extension of the screw threaded rod, a nut engaging the screw threaded rod below the sleeve upon the casing which is thereby supported, said nut being provided with a notched flange; and a wrench member con-

nected with the nut for rotation and having a tooth adapted to engage the notched flange.

2. In a leveling device for threshing machines, a sleeve mounted upon the casing of the machine, a screw threaded rod slidable vertically through said sleeve and having unthreaded extensions, one of which is provided with a wheel carrying spindle, guide members for said extensions, a nut engaging the threaded rod below the sleeve which is thereby supported, a wrench member connected for rotation with the nut and having means to engage said nut to rotate the latter, an arm extending from the casing of the machine, and a latch member pivotally connected with said arm and adapted to engage the wrench member to lock the latter against movement.

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

WILLIAM A. PENNINGTON.

Witnesses:

W. A. FLEMING,

C. P. WATERHOUSER.