

Dec. 29, 1925.

1,567,945

J. M. HAYS
AGRICULTURAL MACHINE
Filed Feb. 27, 1925

Fig. 1.

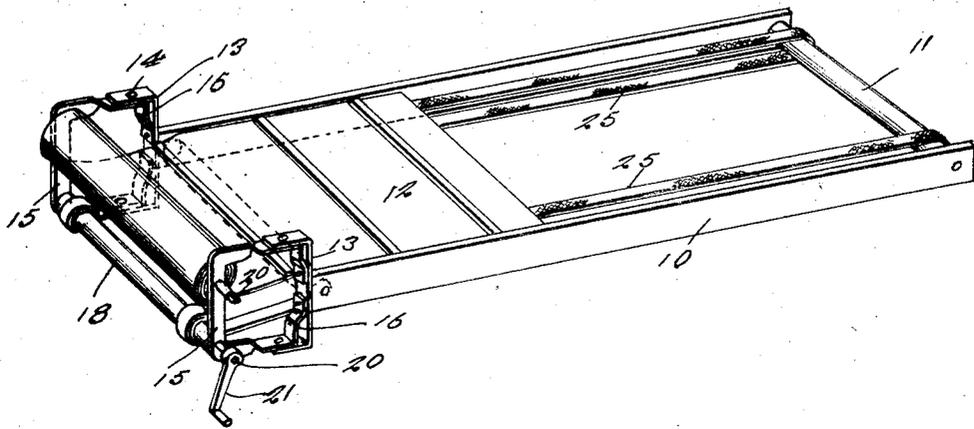


Fig. 2.

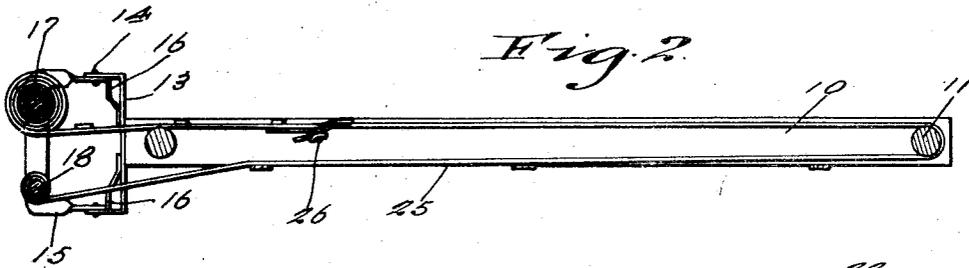


Fig. 3.

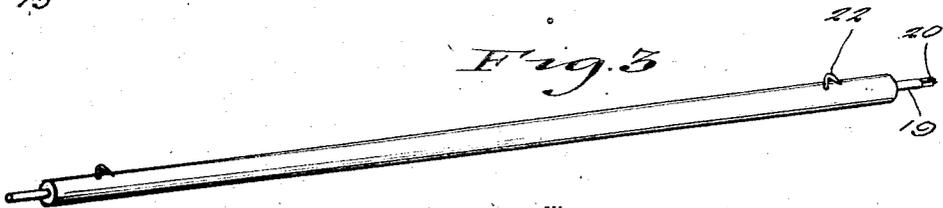


Fig. 4.

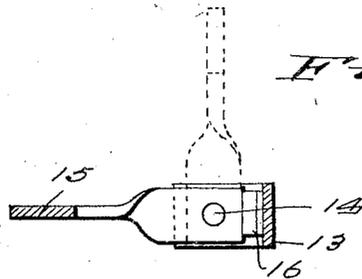
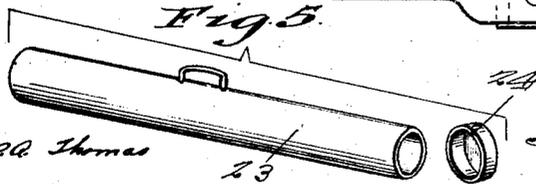


Fig. 5.



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WITNESS:

UNITED STATES PATENT OFFICE.

JOHN M. HAYS, OF RINGWOOD, OKLAHOMA.

AGRICULTURAL MACHINE.

Application filed February 27, 1925. Serial No. 12,078.

To all whom it may concern:

Be it known that I, JOHN M. HAYS, a citizen of the United States, residing at Ringwood, in the county of Major and State of Oklahoma, have invented new and useful Improvements in Agricultural Machines, of which the following is a specification.

This invention relates to improvements in agricultural machines such as binders, headers and so forth, an object being to provide means whereby the table canvases or conveyors of machines of this character may be conveniently removed from said machines to prevent exposure to the elements and thus prevent rapid deterioration of the canvases.

In machines as above mentioned, it entails considerable trouble and usually requires the services of two or more persons to remove the canvases from binders, headers and the like, so that said canvases are usually left in place and when the machine is left in the field, the canvases are exposed to the water, with resultant damage. By means of the present invention, these canvases may be quickly and easily removed and replaced by a single person.

With the above and other objects in view, the invention further includes the following novel features and details of construction, to be hereinafter more fully described, illustrated in the accompanying drawings and pointed out in the appended claims.

In the drawings:—

Figure 1 is a perspective view illustrating the invention applied to a binder or header table.

Figure 2 is a longitudinal sectional view of the same.

Figure 3 is a detail perspective view of one of the rollers.

Figure 4 is an enlarged horizontal sectional view illustrating the pivotal mounting of one of the roller brackets.

Figure 5 is a perspective view showing the case for receiving the rolled canvas, the cover of the case being shown removed.

Referring to the drawings in detail where-in like characters of reference denote corresponding parts, the reference character 10 indicates the frame of a binder or header table, the said frame including rollers 11 around which operates a conveyor or canvas 12, the latter having its ends detachably connected so as to permit of its removal from the frame. This is usually a more or

less laborious operation and the services of more than one person are usually required. The present invention aims to overcome this disadvantage and for this purpose provides an attachment which may be secured to one end of the frame 10.

This attachment includes substantially U-shaped members 13 which are attached to the frame 10 and which have pivotally secured thereto as shown at 14, the opposite ends of a substantially U-shaped bearing bracket 15. These brackets are capable of lateral swinging movement and in order to hold them against accidental movement, the members 13 have secured thereto springs 16, whose free ends engage the inner ends of the brackets 15 and act to hold them extended as shown in Figures 1, 2 and 4 of the drawings, or to hold them positioned laterally as indicated by the dotted lines in Figure 4.

The purpose of mounting these brackets for swinging movement is to permit of the insertion and removal of rollers 17 and 18, the latter being provided with trunnions 19 which are removably inserted in spaced openings provided in the brackets 15. The trunnions at one end of the rollers are provided with a squared or rectangular portion 20 for the reception of a crank arm 21, whereby the rollers may be rotated. These rollers are provided with hooks or similar elements 22, and the hooks of the roller 17 are adapted to be engaged by one end of the canvas 12 so that the said canvas may be rolled upon the roller 17 when not in use. By swinging the brackets 15 laterally the roller 17 with its canvas may be removed from the brackets and placed within a receptacle or container 23 which is provided with a lid or cover 24 and by means of which the canvas may be protected.

Secured upon the hooks 22 of the roller 18 are straps 25, the latter being adapted to be passed around one of the rollers 11 and to have their ends detachably connected to one end of the canvas 12 as indicated at 26 in Figure 2 of the drawings. In this figure the canvas 12 is shown as rolled upon the roller 17 with one end threaded over the adjacent roller 11 and the said end connected to the straps 25. By operating the roller 18 by means of the handle 21, the canvas may be guided around the rollers 11 and its ends secured together so as to provide an endless canvas or conveyor. In re-

moving the canvas from the frame 10 its ends are separated and the canvas is wound upon the roller 17, the free ends of the straps 25 being suitably secured so as to hold them in place for the convenient re-
5 placing of the canvas.

The invention is susceptible of various changes in its form, proportions and minor details of construction and the right is here-
10 in reserved to make such changes as properly fall within the scope of the appended claims.

Having described the invention what is claimed is:—

15 1. In a machine of the class specified, the combination with a frame having a separable endless canvas operating around rollers mounted in said frame, of bearing brackets supporting one end of the frame, spaced
20 rollers removably mounted in said brackets, means for pivotally mounting one of the brackets to permit of lateral swinging movement and facilitate removal and replacement of the rollers, means carried by one of
25 the rollers for engagement with one end of the canvas, whereby the canvas may be wound upon said roller, spaced straps having one of their ends detachably engaged with and adapted to be wound upon the
30 other bracket roller, means providing a detachable connection between the other ends of the straps and one end of the canvas to guide the latter around the table rollers when the strap wound roller is rotated and
35 means to rotate the rollers.

2. In a machine of the class specified, the combination with a frame having a separable endless canvas operating around rollers mounted in said frame, of bearing brackets
40 supported at one end of the frame, spaced rollers removably mounted in said brackets, means for pivotally mounting the brackets to permit of lateral swinging movement and facilitate removal and replacement of the
45 rollers, means carried by one of the rollers for engagement with one end of the canvas, whereby the canvas may be wound upon said roller, spaced straps having one of

their ends detachably engaged with and adapted to be wound upon the other bracket
50 et roller, means providing a detachable connection between the other ends of the straps and one end of the canvas to guide the latter around the table rollers when the strap
wound roller is rotated, and means to rotate
55 the rollers.

3. In a machine of the class specified the combination with a frame having a separable endless canvas operating around rollers mounted in said frame, of bearing brackets
60 supported at one end of the frame, spaced rollers removably mounted in said brackets, means for pivotally mounting the brackets to permit of lateral swinging movement and facilitate removal and replacement of the
65 rollers, means for yieldingly holding the brackets against pivotal movement, means carried by one of the rollers for engagement with one end of the canvas, whereby the
70 canvas may be wound upon said roller, spaced straps having one of their ends detachably engaged with and adapted to be wound upon the other bracket roller, means
providing a detachable connection between
75 the other ends of the straps and one end of the canvas to guide the latter around the table rollers when the strap wound roller is rotated and means to rotate the rollers.

4. The combination with a frame and a detachably connected endless belt movable
80 around rollers mounted in the frame, of spaced rollers removably supported at one end of the frame, one of said rollers being adapted to receive the belt, spaced straps,
means connecting one of the ends of the
85 straps to the other roller to facilitate winding the straps thereon, means to detachably connect the other ends of the straps to one end of the belt and means to rotate either
90 of the removable rollers to wind and unwind the belt and position the latter around the frame carried rollers.

In testimony whereof, I affix my signature.

JOHN M. HAYS.