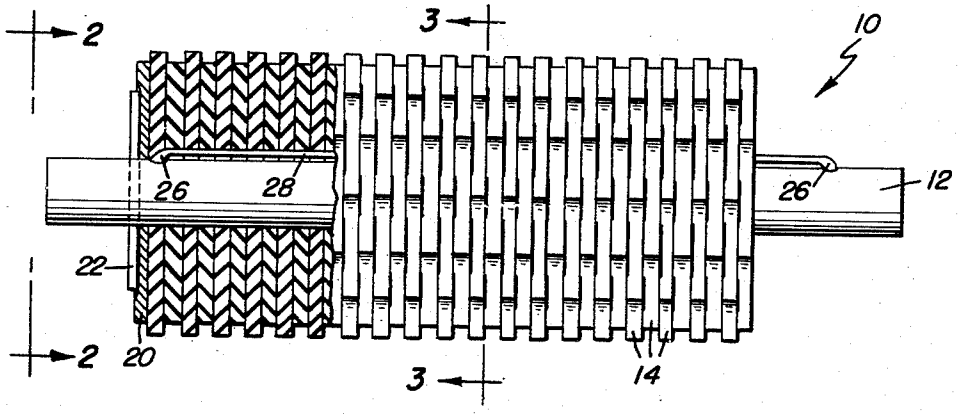
Dec. 25, 1951 R. H. COOK 2,579,906

HUSKING ROLLER

Filed May 29, 1950

Fig. 1



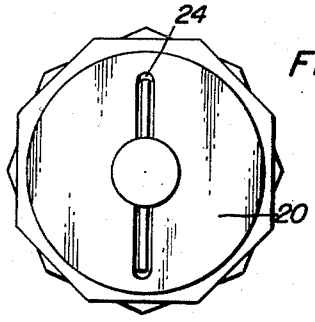




Fig. 2

Fig. 3

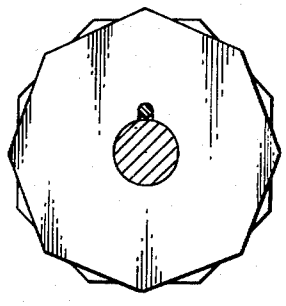
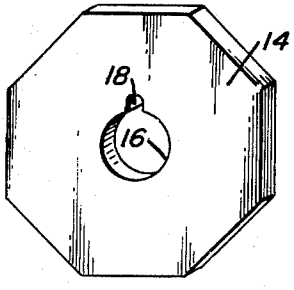


Fig. 4




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# UNITED STATES PATENT OFFICE

2,579,906

## HUSKING ROLLER

Ralph H. Cook, Columbus, Nebr.

Application May 29, 1950, Serial No. 164,916

2 Claims. (Cl. 130—5)

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This invention relates to an improved husking roller for the husking bed of a corn picking machine and more particularly to that form of roller as is shown and disclosed in the patent to Albert H. Siemen No. 2,416,124 of February 18, 1947, and the patent to Albert D. Becker No. 2,444,088 of June 29, 1948.

A principal object of this invention is to provide keying means engageable with the shaft of the roller for locking the plurality of resilient laminations or disks which form the body portion of the roller of the shaft.

While the rollers as shown in the aforesaid patents are efficient in operation they are somewhat unsatisfactory as the runner disks or other laminated material forming the body portion keep turning on the shaft at the center of the roller when in operation.

While it is desired that the body portion formed from the disks be resilient in their operation, it is desirable to maintain the disks in a given relation relative to the shaft. Therefore, it is a further object of the invention to provide keying means for locking the disks on the shaft which keying means will be resilient to a satisfactory extent.

Still further objects of the invention reside in the provision of an improved husking roller that is strong, durable, highly efficient in operation, simple in construction and manufacture, capable of being inexpensively manufactured for sale at a relatively low cost.

These, together with the various ancillary objects of the invention which will become apparent as the following description proceeds, are attained by this husking roller, a preferred embodiment of which has been illustrated in the accompanying drawings, by way of example only, wherein:

Figure 1 is a side elevational view of the husking roller comprising the present invention, with parts thereof being shown in section for greater detail;

Figure 2 is an end elevational view as taken along the line 2—2 in Figure 1;

Figure 3 is a sectional view as taken along the line 3—3 in Figure 1;

Figure 4 is a perspective view of one of the disks used in the present invention.

With continuing reference to the accompanying drawings wherein like reference numerals designate similar parts throughout the various views, reference numeral 10 generally designates the improved roller comprising the present invention which is provided with a shaft 12 on which

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a plurality of octagonal laminated disks 14 are adapted to be emplaced. The disks are preferably made from worn automobile pneumatic tire casings.

Each of the disks 14 is provided with a central aperture 16 therethrough and a slot 18 therewith in communication with the aperture 16. The disks are held in compressed relationship on the shaft by the circular compression washers 20 which may be positioned at each end of the roller and which are retained in their compression positions by pins 22 which fit snugly into a transverse bore through the shaft 12. Preferably the pins are partially countersunk in the outer face of the compression washers 20 in the grooves 24 formed in the washers.

In order to securely lock the laminated disks 14 upon the shaft 12 there is provided a keying member which consists of curved end portions 26 which are welded to the shaft 12 adjacent the locking washers 20. The central portion 28 of the keying member is thus spaced from the shaft 12 to both increase the locking action of the member 28 and also to permit a certain amount of play in the disks 14 due to the resiliency of the material of which the member 28 is made. The keying member is preferably formed from a suitable solid wire material such as steel and because of the fact that it is spaced from the shaft 12 the rubber disks are less likely to pass over the keying member due to the formation of the same.

Since from the foregoing the construction and advantages of this improved roller are readily apparent, further description is believed to be unnecessary. However, since numerous modifications and changes will readily occur to those skilled in the art after a consideration of the foregoing specification and accompanying drawings, it is not intended to limit the invention to the precise embodiment shown and described, but all suitable modifications and equivalents may be readily resorted to which fall within the scope of the appended claims.

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

1. A husking roller comprising an elongated cylindrical shaft, a laminated cylindrical roller body, said body comprising a plurality of flexible resilient disks each having a central aperture snugly receiving said disks, means engageable with said shaft holding said disks under compression, slots in said disks in communication with the central aperture, and flexible keying means carried by said shaft engaging said disks

in said slots, said keying means being terminally non-rotatably secured to said shaft and centrally spaced therefrom, the central portion of said keying means permitting limited rotary movement of said disks relative to said shaft.

2. A husking roller comprising an elongated cylindrical shaft, a laminated cylindrical roller body, said body comprising a plurality of flexible resilient disks each having a central aperture snugly receiving said disks, means engageable with said shaft holding said disks under compression, slots in said disks in communication with the central aperture, and resilient keying means carried by said shaft engaging said disks in said slots, said keying means comprising an elongated rod having curved end portions and a straight central portion, said end portions being



non-rotatably secured to said shaft, the central portion of said keying means permitting limited rotary movement of said disks relative to said shaft.

RALPH H. COOK.


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