

Sept. 4, 1928.

1,682,950

H. BEAVER

GIN BRUSH

Filed Oct. 14, 1927

2 Sheets-Sheet 1

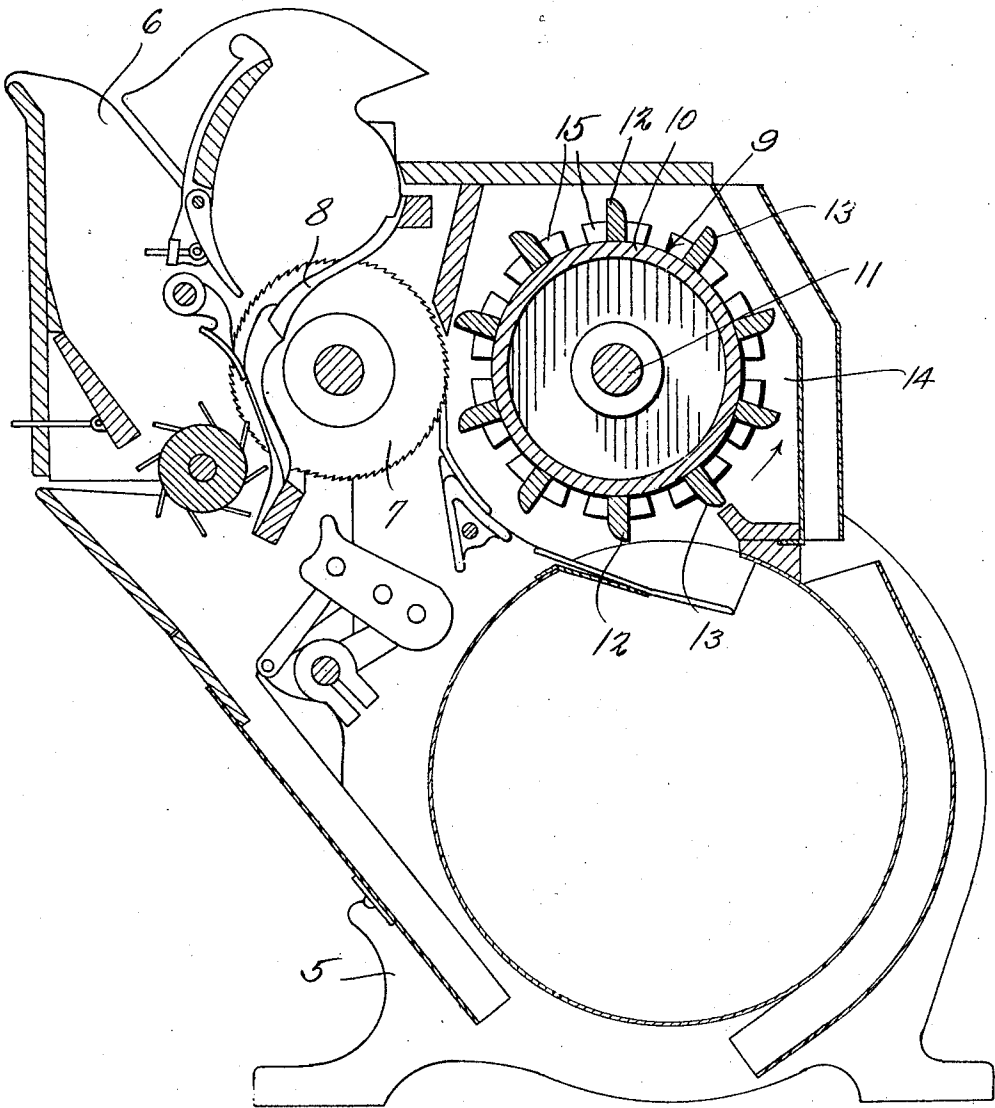


Fig. 1.

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Fig. 2.

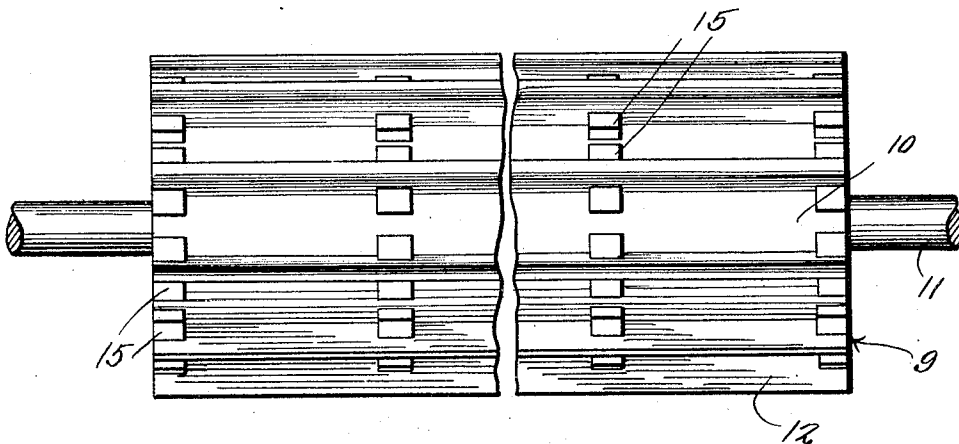


Fig. 3.

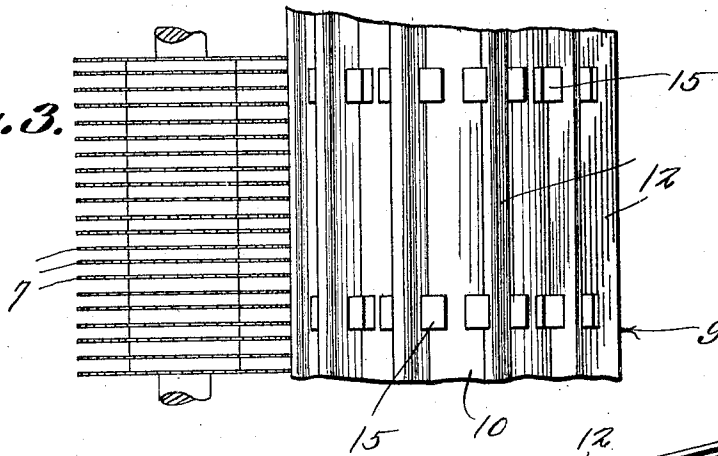
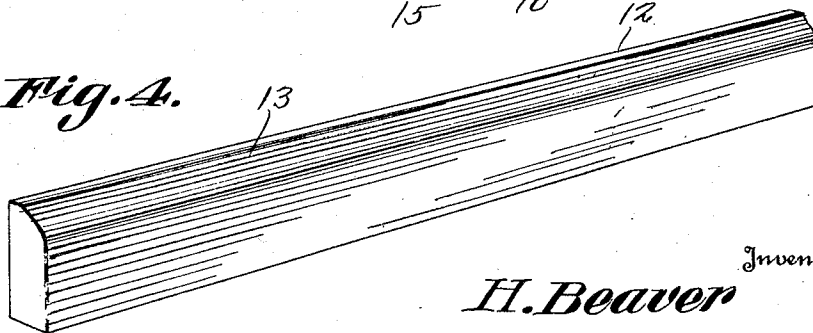


Fig. 4.



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UNITED STATES PATENT OFFICE.

HOMER BEAVER, OF CHICKASHA, OKLAHOMA.

GIN BRUSH.

Application filed October 14, 1927. Serial No. 226,157.

This invention has reference to cotton gins and more particularly to the construction of the gin brush thereof, the primary object of the invention being to provide a gin brush which will create a greater suction through the gin, the construction of the gin brush being such that it will not damage the gin saws, should it contact therewith.

Another important object of the invention is to provide a gin brush which may be constructed by removing the bristles of the usual gin brush now in operation, and replacing the bristles by the wooden strips forming the subject matter of this invention.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

Referring to the drawings:

Figure 1 is a vertical sectional view through a cotton gin equipped with a brush constructed in accordance with the invention.

Figure 2 is an enlarged elevational view of the brush.

Figure 3 is a plan view illustrating the brush operating adjacent to the saws of the gin.

Figure 4 is a perspective view of one of the bars of the brush.

Referring to the drawings in detail, the frame of the gin is indicated generally by the reference character 5, the same being of the usual and well known construction and provided with a hopper 6 through which material is fed to the saws indicated at 7.

The saws 7 operate adjacent to the ribs 8 in the usual and well known manner, the saws picking up material and carrying it forwardly to a point adjacent to the rotary

brush, forming the essence of this invention.

The rotary brush forming the essence of this invention is indicated generally by the reference character 9 and includes a tubular body portion 10 mounted on the shaft 11. Extending longitudinally of the body portion 10 are bars 12 that are arranged in suitable spaced relation with each other, the bars 12 having their rear edges curved as at 13 so that the rotary brush will operate to create a suction within the brush housing 14 to remove the cotton from the saws 7 and deposit in the spout of the gin to be carried off.

Each bar 12 is held between a plurality of pairs of spaced blocks 15 so that the bars will be held against displacement under the centrifugal force of the brush.

It might be further stated that the usual bristles of the usual gin brush may be removed and bars such as shown by Figure 4 of the drawings, positioned in the grooves in which the bristles are supported.

From the foregoing it will be obvious that due to this structure, the bars being rigid a greater suction will be created in the brush housing than is created with the usual rotary brush having bristles, and that should the brush for any reason contact with the gin saws, the wood could not injure the saws to render them inoperative.

I claim:

In a gin, a housing, gin saws operating in the housing, a gin brush including an elongated body portion, bars formed of wood secured to the periphery of the body portion and extending beyond the surface thereof, said bars operating adjacent to the saws to create a suction within the housing to draw material from the saws, and means for securing the bars to the body portion.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

HOMER BEAVER.