T. K. LEE.

DABBING BRUSH FOR WOOL COMBERS.

APPLICATION FILED JULY 13, 1909.

984,943.

Patented Feb. 21, 1911.

Fig. 1.

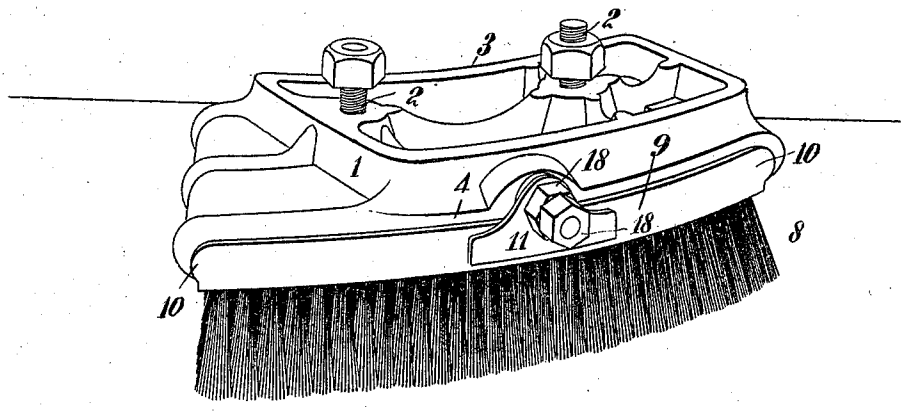


Fig. 2

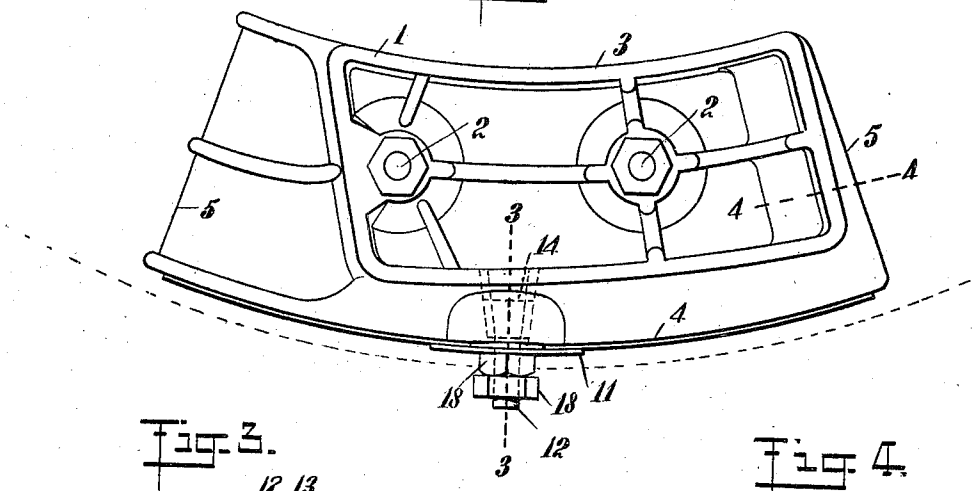


Fig. 3.

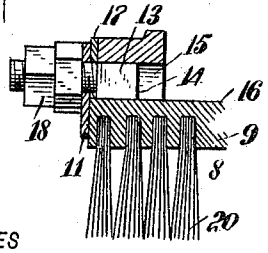
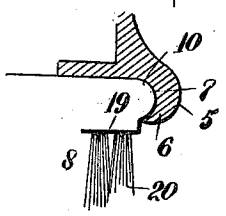


Fig. 4



WITNESSES

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DABBING-BRUSH FOR WOOL-COMBERS.

984,943. Specification of Letters Patent. Patented Feb. 21, 1911.

Application filed July 13, 1909. Serial No. 507,299.

To all whom it may concern:

Be it known that I, THEODORE K. LEE, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Dabbing-Brush for Wool-Combers, of which the following is a full, clear, and exact description.

This invention relates to dabbing brushes such as used on circular wool combers. In machines of this type, a pair of dabbing brushes are mounted diametrically opposite to each other, and the machine is constructed in such a way that the hank of wool to be combed is presented to the brushes, the wool being carried upon a horizontal circular support or wheel which is rotated by a step-by-step movement about a central axis.

The object of this invention is to provide improved means for attaching the brush to its holder, and the invention resides in the construction of the holder and the brush.

The invention consists in the construction and combination of parts to be more fully described hereinafter and particularly set forth in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective showing the brush holder detached from the machine and representing the same as holding the brush; Fig. 2 is a plan of the brush holder and showing the dotted line indicating the path of the inner ends of the boxes of the machine which present the wool to the dabbing brush to be combed; Fig. 3 is a vertical section taken on the line 3—3 of Fig. 2 and showing details of the construction for holding the brush; and Fig. 4 is a vertical section on the line 4—4 of Fig. 2 and further illustrating the details of the construction of the brush and brush holder.

Referring more particularly to the parts, 1 represents the body of the brush holder which is in the form of a metal shoe having a pair of studs 2 projecting upwardly for securing the shoe to the reciprocating cross head of the machine. The inner edge 3 of the shoe is in the form of an arc or curve, the center of which is located at the central axis of the machine, and the outer edge 4 of the shoe is similarly formed as a curve or arc located at the center of the machine. The ends or end edges 5 of the shoe are disposed substantially radially from the center of the machine, that is, they are disposed normally to the arcs or edges 3 and 4. Each edge 5 presents a depending flange which is undercut on the side toward the other edge so as to form a retaining hook 6 presenting a groove 7 which extends transversely of the brush holder.

The brush 8 has a stock or back 9 which is formed of fiber, wood, or similar material, and this stock conforms in outline to the outline of the brush holder, that is, its inner and outer edges are curved like the edges 3 and 4, and its end edges are straight and disposed substantially normally of the curved edges of the brush holder. These end edges of the brush stock 9 are formed into rounded tongues 10, as indicated in Fig. 4, and these tongues are adapted to be received in the grooves 7, as shown. From this arrangement it should be understood that the brush can be readily inserted from the outer side of the machine, and, furthermore, the converging grooves 7 form seats for the ends of the stock and limit the inward movement of the brush.

In order to hold the brush in the shoe I provide a keeper 11, which keeper is preferably in the form of an elongated plate which is attached on the outer side of the shoe by means of a bolt 12. This bolt 12 has a tapered or wedge-shaped head 13 which has its greatest width at the inner end face 14 of the head, as indicated in Fig. 2. This head is received in an under-cut or dove-tail groove 15 which is formed in the under side of the shoe at this point. When the bolt 12 is in position the lower face of the head 13 is substantially flush with the lower face of the shoe against which the inner face or upper face 16 of the stock 9 abuts. Between the keeper plate 11 and the shoe a washer 17 is provided, as shown. The stock is formed so that when applied to the shoe its outer edge projects slightly, as indicated in Fig. 2. The keeper 11 projects down across this outer edge so that when the nuts 18 on the bolt 12 are tightened up the keeper will force the brush stock inwardly and secure the same in position.

With a brush and brush holder constructed as described the brush can evidently be quickly removed and replaced. The lower part of the stock 9 is constructed so that the lower face 19 in which the bris-

tles 20 are secured, is depressed below the level of the ends of the shoe, as indicated in Fig. 4. This arrangement insures that the ends of the shoe can never come in contact with the pins.

Having thus described my invention, I claim as new and desire to secure by Letters Patent,—

1. A dabbing brush for use in circular wool combing machines and having a holder presenting inner and outer edges substantially concentric with the center of movement of the wool being combed, and end edges having depending flanges converging toward said center of movement, and having the inner side undercut, and a dovetailed groove in the under side of the holder and adjacent the outer edge and intermediate said flanges, said brush having a back provided with converging end edges movable inward radially to fit between said flanges, a bolt having a head secured within said dovetailed groove, a plate carried by said bolt and depending into engagement with the outer edge of the brush back, and a nut on said bolt for binding said plate into engagement with said outer edge of the brush back, for preventing outward radial movement of the brush back.

2. In an attachment for circular wool-combing machines, the combination of a brush holder having end edges converging inwardly toward the center of the machine and provided with depending flanges, the inner sides of which are under-cut, a brush having a back, the end edges of which converge, said brush being adapted to move radially into position beneath said holder and be supported by said flanges, a bolt extending outwardly from the outer edge of said holder between said flanges, and a member secured on said bolt and depending therefrom for engagement with the outer edge of the brush back to prevent outward radial movement of the brush.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THEODORE K. LEE.

Witnesses:

F. D. AMMEN,

PHILIP D. ROLLHAUS.