Nov. 8, 1949 J. M. INES 2,487,444

SUCTION BRUSH FOR VENETIAN BLINDS

Filed Oct. 25, 1945 2 Sheets-Sheet 1

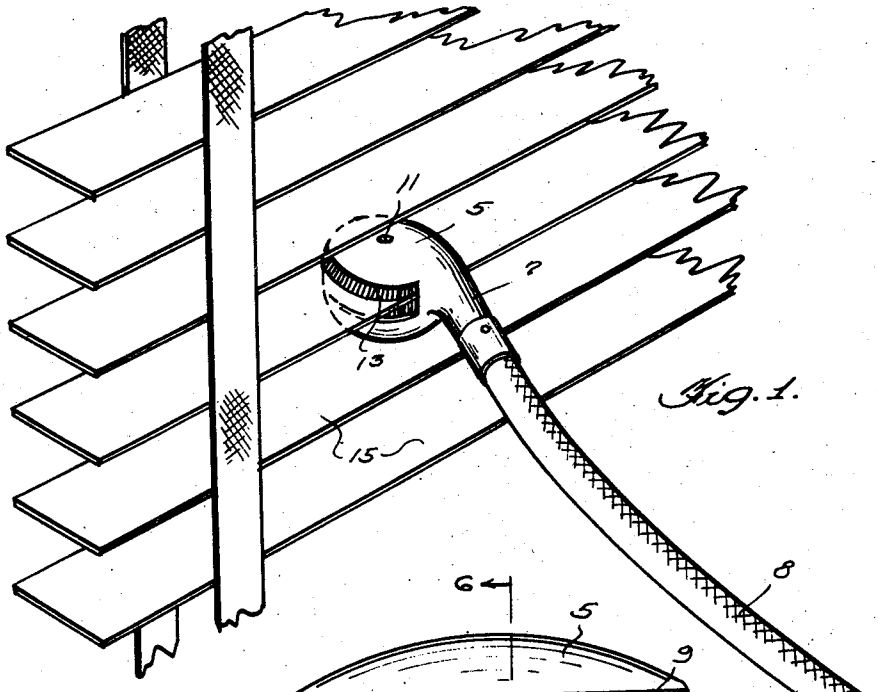


Fig. 1.

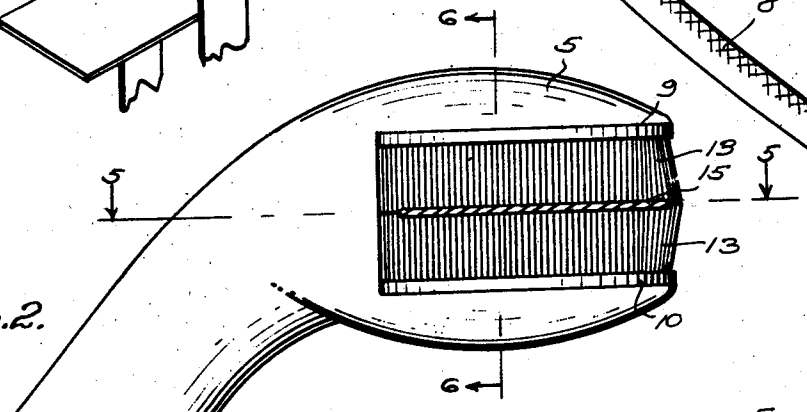


Fig. 2.

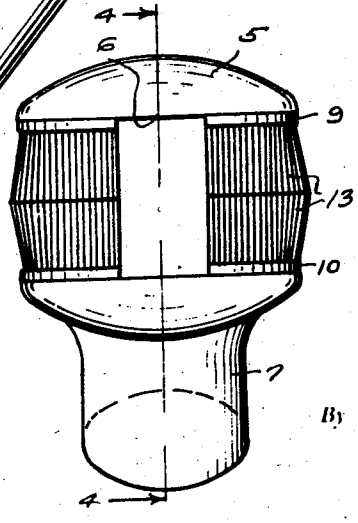


Fig. 3.

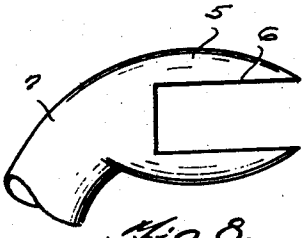


Fig. 8.

Inventor

Julian M. Ines,

By Clarence O'Brien and Harvey B. Jacobson

Attorneys

Nov. 8, 1949 J. M. INES 2,487,444

SUCTION BRUSH FOR VENETIAN BLINDS

Filed Oct. 25, 1945 2 Sheets-Sheet 2

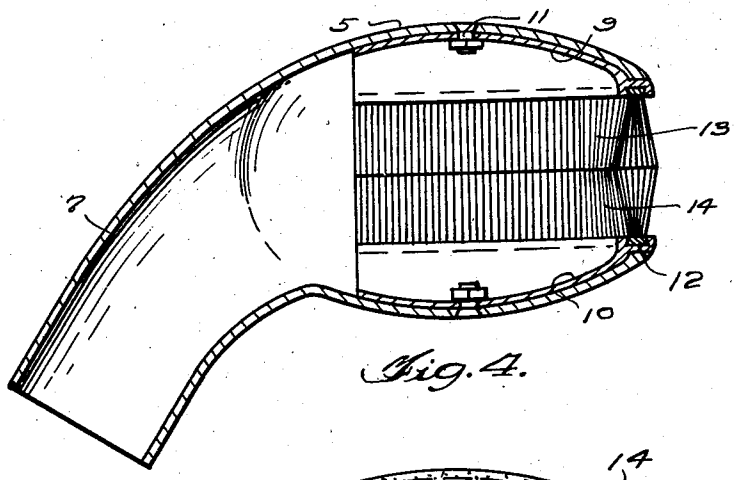


Fig. 4.

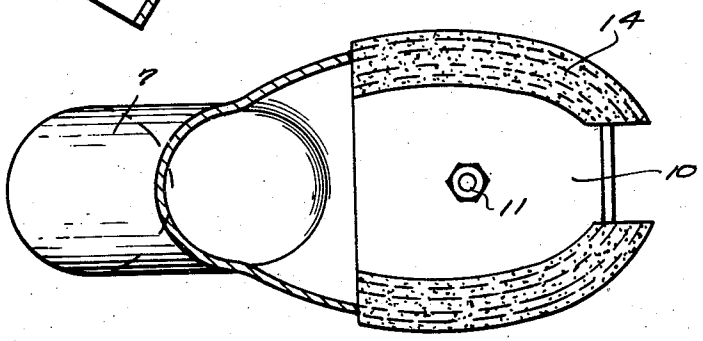


Fig. 5.

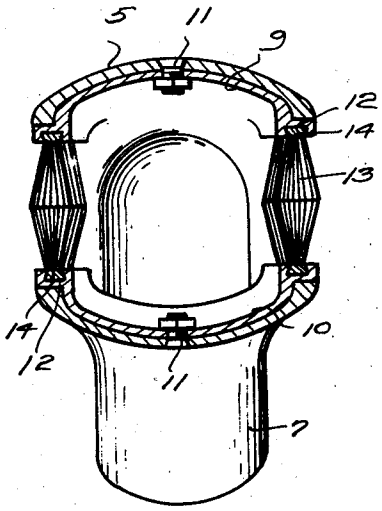


Fig. 6.

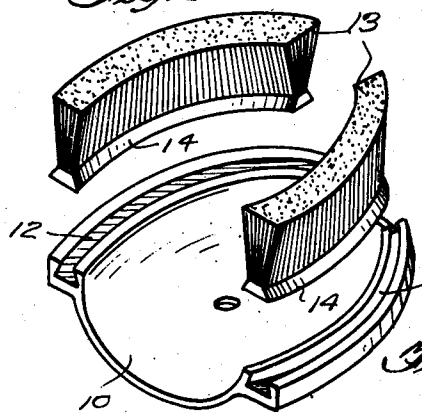


Fig. 7.

Inventor

Julian M. Ines,

By Clarence A. O'Brien and Harvey B. Jacobson

Attorneys

Patented Nov. 8, 1949

2,487,444

UNITED STATES PATENT OFFICE

2,487,444

SUCTION BRUSH FOR VENETIAN BLINDS

Julian M. Ines, Norfolk, Conn.

Application October 25, 1945, Serial No. 624,465

1 Claim. (Cl. 15—394)

1

The present invention relates to new and useful improvements in brushes and more particularly to a brush essentially adapted for cleaning the slats of Venetian blinds and the like, and the invention has for its primary object to provide a brush of this character embodying means for connection with a suction device whereby dust removed from the slats during the brushing operation may be drawn into the hose of a vacuum cleaner or similar suction apparatus.

A further object of the invention is to provide a brush of this character which is effective for simultaneously cleaning both sides of the slats of Venetian blinds.

A still further object is to provide a brush head embodying means for removably mounting brush elements therein whereby to facilitate renewal of the brushes when desired.

A still further object is to provide a device of this character of simple and practical construction, which is neat and attractive in appearance, efficient and reliable in operation, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspective view of the brush showing the same applied to a Venetian blind slat for cleaning the same.

Figure 2 is an enlarged side elevational view of the brush head and showing the Venetian blind slat in section.

Figure 3 is a front elevational view.

Figure 4 is a longitudinal sectional view taken substantially on a line 4—4 of Figure 3.

Figure 5 is a sectional view taken on a line 5—5 of Figure 2.

Figure 6 is a transverse sectional view taken on a line 6—6 of Figure 2.

Figure 7 is a group perspective view of one of the brush mounting plates and the brush element removably mounted therein, and

Figure 8 is a side elevational view of the brush head with the brushes removed.

Referring now to the drawings in detail wherein for the purpose of illustration I have disclosed a preferred embodiment of my invention, the numeral 5 designates a hollow brush head of substantially circular design and having a horizontal slot or opening 6 in its front edge and continuing along each side edge for the greater portion of the latter. A tubular shank 7 is formed at the rear edge of the head and communicates with the interior of the head. A suction hose 8 of a conventional vacuum cleaner is detachably connected to the shank.

2

Upper and lower brush holding plates 9 and 10 are secured in the upper and lower portions of the head by bolts or the like 11, each plate being concaved to conformably seat in the head and having curved channels 12 along their side edges of dove-tail shape in cross-section. The channels of the upper and lower plates are opposed to each other and project outwardly from the sides of the plate to provide shoulders for resting on the side edges of the slot 6 of the head to thus bring the side edges of the plates flush with the sides of the head.

Arcuate brushes 13 having dove-tail shaped backing plates 14 are positioned in the channels by sliding the backing plates in one end of the channels, the ends of the bristles of the upper and lower brushes contacting each other. The front ends of the brushes 13 are spaced apart from each other to provide an opening therebetween and through which dust may be drawn into the head and hose by the vacuum cleaner.

By inserting the edges of a Venetian blind slat 15 between the brushes 13 and sliding the brushes along the slat, the slat may be cleaned of dust which is then drawn into the head.

The brushes 13 may be removed and replaced after becoming worn.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the construction, operation and advantages of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claim.

What is claimed is:

A suction cleaning brush for slat blinds comprising an elongated hollow head substantially circular in cross section and having a rear end adapted for attachment to a suction hose, said head having concavo-convex opposed portions and a U-shaped slot extending from the front

end of the head along said head at opposite sides thereof and separating said portions, whereby said portions are adapted to straddle a slat inserted in said slot, a pair of opposed plates in said head fitting conformably against said portions with shoulders fitting against the edges of said slot, and each having a pair of dovetailed curved grooves therein for extending along said edges, and a pair of brush elements in each plate having curved dovetailed backs slidably fitting in said grooves, said elements being spaced apart in each pair at the front end of the head to form a suction space between the same, and means to detachably attach said plates to said portions.

JULIAN M. INES.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,237,047	Howell	Aug. 14, 1917
1,671,334	White	May 29, 1928
2,207,320	Jones	July 9, 1940
2,283,293	Steiert	May 19, 1942