United States Patent [19]

Jones

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[54] FOAM BRUSH

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[52] **U.S. Cl.** ..... **15/244 R,** 15/245

[51] **Int. Cl.** **A47l 1/10,** A47l 13/46

[58] **Field of Search** ..15/121, 244 R, 244 A, 244 CH, 15/245; 37/16

[56] **References Cited**

UNITED STATES PATENTS

938,421	10/1909	Hakins	15/244 CH
3,458,268	7/1969	Wozab et al.	15/244 R X
673,621	5/1901	Moody et al.	15/244 R
2,214,972	9/1940	Ries	15/244 CH
2,915,768	12/1959	Hall	15/244 R

FOREIGN PATENTS OR APPLICATIONS

1,076,916	4/1954	France	15/244 CH
796,958	2/1936	France	15/244 CH

OTHER PUBLICATIONS

Article in "Modern Plastics," Nov. 1954, Vol. 32 No. 3, titled Polyurethane Foams, pages 106–108.

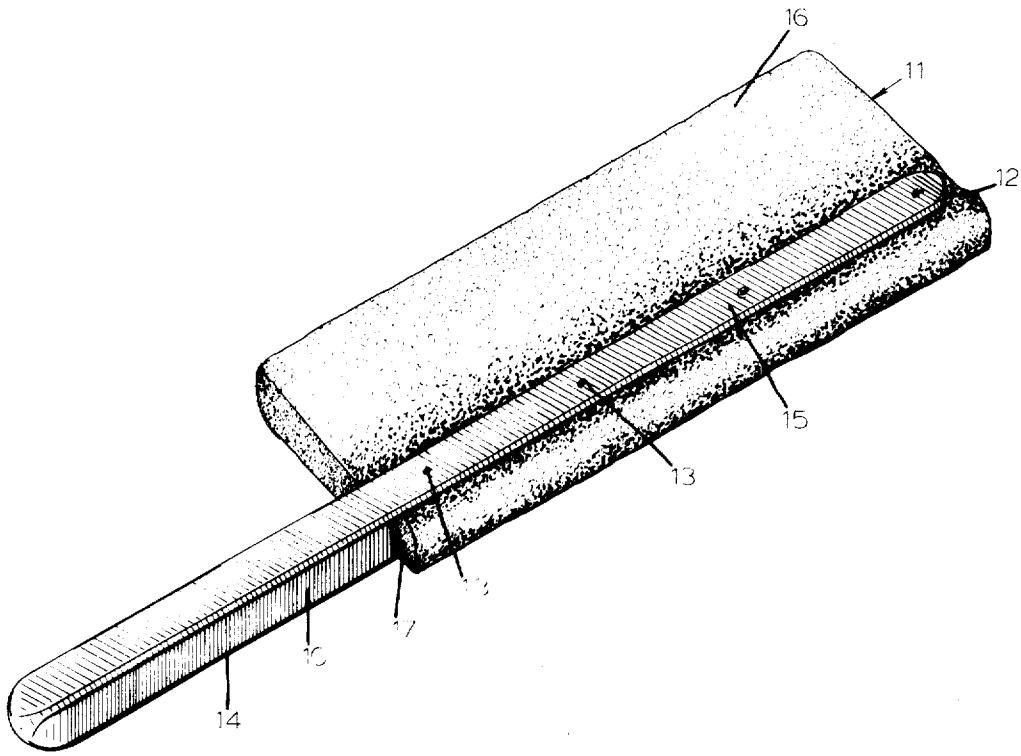
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[57] **ABSTRACT**

A brush for dusting and for removing snow from automotive windshields and the like made up of a rigid handle having a slot cut in one end and a rectangular block of relatively flexible closed cell foam disposed in the slot with rivets holding the foam in clamped relationship in the slot. The foam material extends from one side of the handle several inches so that it can be used to get into recesses in windshields and similar places.

1 Claim, 3 Drawing Figures



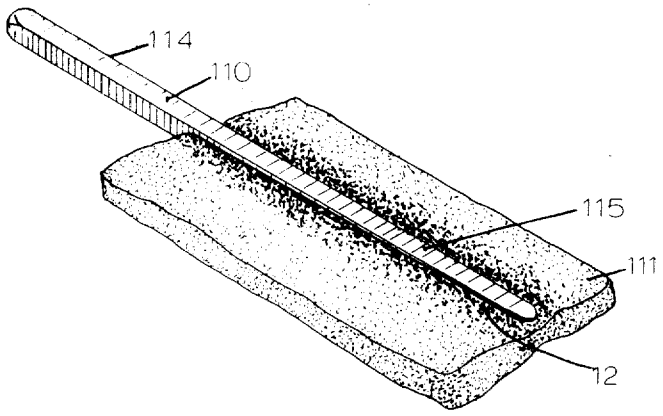


FIG. 2

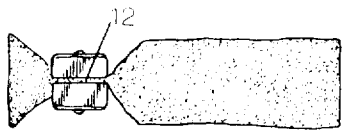


FIG. 3

FIG. 1

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FOAM BRUSH

OBJECTS OF THE INVENTION

It is an object of the invention to provide an improved brush.

Another object of the invention is to provide a brush that is simple in construction, economical to manufacture, and simple and efficient to use.

With the above and other objects in view, the present invention consists of the combination and arrangement of parts hereinafter more fully described, illustrated in the accompanying drawing and more particularly pointed out in the appended claims, it being understood that changes may be made in the form, size, proportions, and minor details of construction without departing from the spirit or sacrificing any of the advantages of the invention.

DESCRIPTION OF THE DRAWINGS

FIG. 1 is an isometric view of the brush according to the invention.

FIG. 2 is a view slightly from the end showing another embodiment of the invention.

FIG. 3 is an end view of the brush of FIG. 1 taken from the end on which the foam material is disposed.

DETAILED DESCRIPTION OF THE DRAWINGS

Now with more particular reference to the drawings, the brush shown has a rigid handle **10** which may be made of a hardwood material or it may be made of injection molded plastic material, such as polyethylene or polyvinylchloride. The handle **10** has a hand engaging part **14** and a foam engaging part **15**. The foam engaging part **15** has a longitudinal slot **12** cut therein. The slot **12** is less than one-sixteenth of an inch in width. The slot extends longitudinally and the slot is very thin and can receive the foam material as shown in FIG. 3. The slot **12** may be, for example, three-sixteenth inch thick and it will compress the foam plastic to this thickness or less as shown.

The body **11** may be made of a polyurethane material of a closed cell variety and the blade part **16** could be, for example, 4 inches wide and the narrow part **17** could be, for example, 1 inch wide.

Rivets **13** may extend through the foam engaging part of the handle and hold it together and thereby hold the foam in clamped position. The ends of the blade

part will terminate about two inches or less from the end of the foam.

In the embodiment of the brush shown in FIG. 2, the handle **110** has a hand engaging portion **114** and a foam receiving portion **115** of substantially uniform width and thickness throughout. The block **111** of foam material is generally rectangular in shape and the foam receiving part **115** of the handle will extend down approximately the center of the foam material. The block of foam **111** may be about 1 inch thick and 5 inches wide. The handle is substantially square in cross section.

The foregoing specification sets forth the invention in its preferred practical forms but the structure shown is capable of modification within a range of equivalents without departing from the invention which is to be understood is broadly novel as is commensurate with the appended claim.

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. A brush for sweeping snow from windshields and the like comprising

a rigid handle having a hand engaging portion and a foam engaging portion,

said handle being of substantially constant length and width overall and substantially square in cross section,

a block of relatively flexible closed cell foam material,

an open ended slot in said handle extending from said hand engaging portion through said foam engaging portion,

said slot being relatively narrow,

said slot receiving an intermediate part of said foam material whereby a portion of said foam material extends substantially from one side of said handle and a lesser part extends from the other side of said handle,

said foam material being substantially coextensive in length with said foam engaging portion of said handle and a portion of said foam extending beyond the end of said handle,

said foam material being polyurethane and said foam material is approximately one inch in thickness and approximately 5 inches in width,

said slot being less than one-sixteenth of an inch in width.

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