

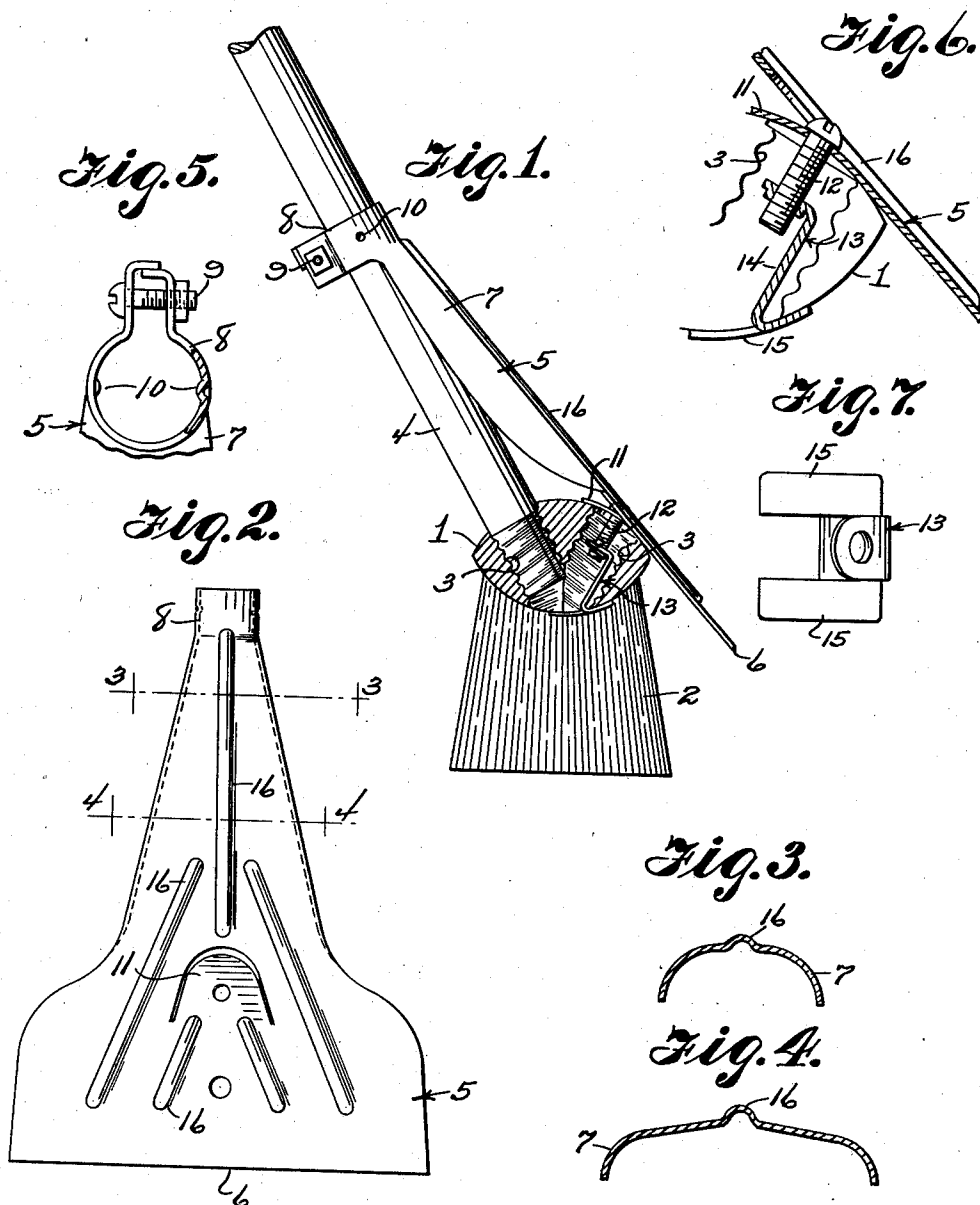
June 27, 1939.

W. E. JUDSON

2,163,979

SCRAPER ATTACHMENT FOR PUSH BROOMS

Filed May 11, 1937



Walter E. Judson

INVENTOR

BY Victor J. Evans & Co.

ATTORNEYS

UNITED STATES PATENT OFFICE

2,163,979

SCRAPER ATTACHMENT FOR PUSH BROOMS

Walter E. Judson, Sylvania, Ohio

Application May 11, 1937, Serial No. 142,045

2 Claims. (Cl. 15-111)

This invention relates to attachments for brooms of the type employed for cleaning floors of buildings wherein said floors are subjected to grease and other foreign matter having a tendency to adhere to said floors and has for the primary object the provision of efficient and inexpensive devices of this character which may be readily secured onto a broom head and by reversing the position of the latter said device may be brought into proper engagement with a floor, whereby foreign matter adhering thereto may be scraped or loosened to permit said matter to be swept up by the broom in a conventional manner.

With these and other objects in view, this invention consists in certain novel features of construction, combination and arrangement of parts to be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawing, in which

Figure 1 is a side elevation, partly in section, showing an attachment applied to a broom and constructed in accordance with my invention.

Figure 2 is a plan view showing the attachment.

Figure 3 is a sectional view taken on the line 3-3 of Figure 2.

Figure 4 is a sectional view taken on the line 4-4 of Figure 2.

Figure 5 is a fragmentary top plan view illustrating the split collar clamp partly in section, of my device, for attaching the latter to the broom handle and shows the blade shank broken away.

Figure 6 is a fragmentary sectional view showing means of securing the attachment on the head of the broom.

Figure 7 is an end view showing a clamp engageable with the head of the broom.

Referring in detail to the drawing, the numeral 1 indicates a broom head having secured thereto bristles 2. The head is provided with a pair of screw threaded openings 3 either of which may have threaded therein a handle 4. The screw threaded openings 3 permit reversing of the head on the handle 4. A broom of the character described is frequently considered a push type broom, that is, the broom is pushed along the floor to remove foreign matter therefrom. The openings 3 merge with each other, as shown in Figure 1, and the handle only extends partway in the opening when applied to the head. Brooms

of this character are frequently used in sweeping floors of garages or similar places where the floors are subject to grease and other similar matter. However, when sweeping a floor having a foreign matter adhering thereto, it is difficult to remove said foreign matter by the bristles 2. Therefore, my invention is adapted to the broom and by reversing or turning over the head my attachment may be brought into engagement with the floor and act as a scraper for loosening the grease or other foreign matter. The attachment consists of a plate 5 including a blade having a comparatively long scraping edge 6. Formed on the blade is a shank 7, a portion of which is transversely curved to engage the handle 4. Integral with the outer end of the shank 7 is a split collar clamp 8 adapted to encircle the handle and to be drawn tightly thereon by a bolt and nut 9. Indentations 10 are formed on the split clamp to bite into the handle. The blade rests on the head of the broom and projects beyond the same, as clearly shown in Figure 1, and has struck therefrom an apertured ear 11 which extends over one of the openings 3. A bolt 12 is carried by the apertured ear and extends into the opening 3 to thread into a bracket 13 including a shank 14 having integral therewith curved arms or portions 15 adapted to contact the face of the head of the broom at an opposite end of the opening 3 from the ear 11. The shank 7 and plate 5 have formed thereon reinforcing ribs 16. An attachment of the character described can be easily adapted to a broom of the construction shown so that said broom by having its position reversed can bring the attachment into engagement with a floor or like surface for the purpose of scraping or loosening foreign matter adhering thereto.

What is claimed is:

1. In combination with a broom head having a pair of openings extending therethrough from the upper face to the lower face thereof, a handle secured in one of said openings, a scraper including a shank detachably secured to the handle, a scraping blade formed on the shank and engaged with the upper face of the head and extending outwardly beyond the latter, a bracket connected to the blade and extending through the other opening, and curved means formed on the bracket and engaged with the lower face of the head for securing the blade to the head.

2. In combination with a broom head having a pair of openings extending therethrough from the upper face to the lower face thereof, a handle secured in one of said openings, a scraper in-

cluding a shank, a split collar formed on one end of the shank and detachably secured to the handle, a scraping blade formed on the shank and engaged with the upper face of the head and extending outwardly beyond the latter, an ear struck from the blade and closing the other opening, a bracket adjustably connected to the ear and extending into the latter opening, and curved arms formed on the bracket and engaged with the lower face of the head for securing the blade thereto.

WALTER E. JUDSON.