Nov. 4, 1952 B. K. MURCHISON 2,616,647

HOLDER FOR SHANKS HAVING PROTUBERANCES

Filed March 30, 1948

FIG. 1

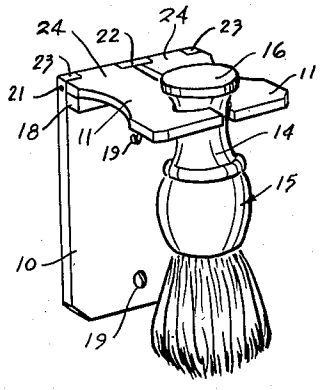


FIG. 2

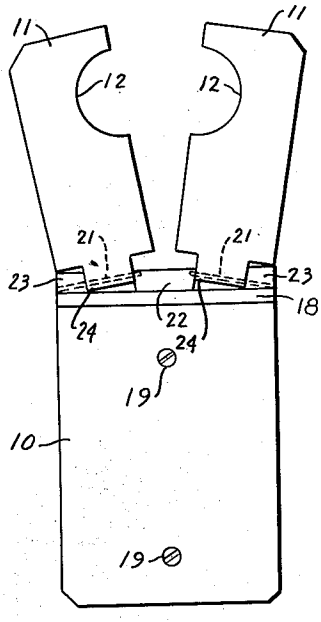


FIG. 8

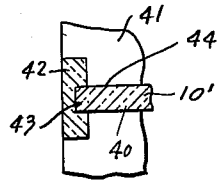


FIG. 7

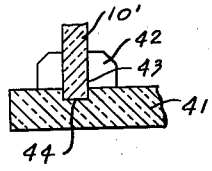


FIG. 3

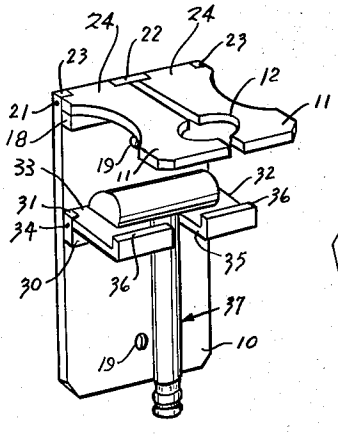


FIG. 4

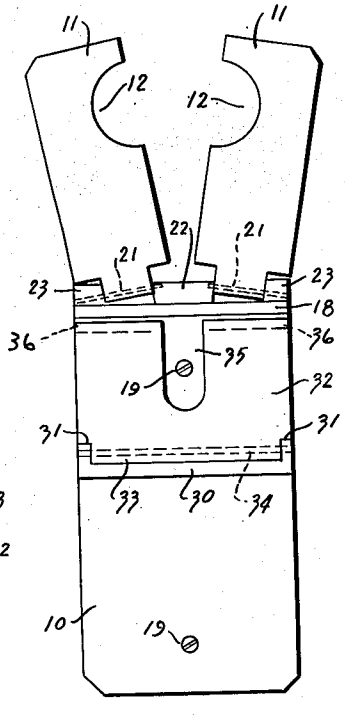


FIG. 5

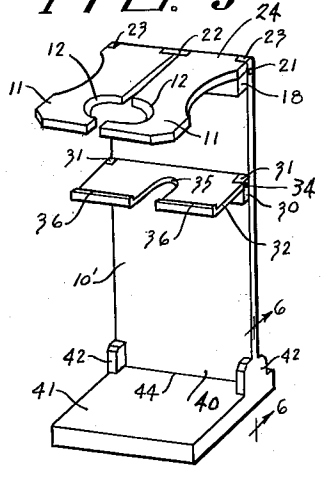
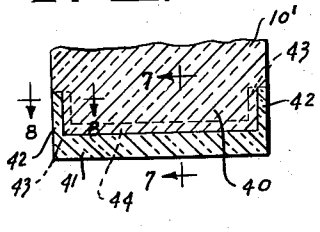


FIG. 6



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HOLDER FOR SHANKS HAVING PROTUBERANCES

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4 Claims. (Cl. 248—110)

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This invention relates to new and useful improvements in holders for shanks having protuberances.

More particularly, the holders may be used for shaving brushes, various kind of dental instruments, various kinds of tools for the factory, farm and home, various other devices such as brooms, brushes, shovels, hose, etc. The only requirement limiting the use of the holder is that the article to be held must have a shank portion and a protuberance by which it may be supported. Obviously, the holders may be built of various sizes and materials to accommodate the various sizes and types of articles to be supported.

It is proposed to characterize the new holder for shanks with protuberances by the fact that it includes a pair of horizontally adjacent horizontal members hingedly mounted on a support at their back portions on generally horizontally directed axes in order that their front ends may be hinged upwards. It is proposed that these horizontal members have in their adjacent edge portions openings through which the shank may pass while the protuberance of the shank rests on the members in order that the shank be supported by the members. It is proposed to provide means for restraining downward hinging of said hinged members so that they may merely hinge upwards.

With the construction mentioned in the previous paragraph one of the pair of the horizontal members may be hinged upwards while the shank with the protuberance is engaged in position. Then the hinged upward member may be released so that it moves downwards and supports the article.

Another and important object of this invention is to provide means for laterally separating the horizontal members mentioned in the previous paragraph as they are hinged upwards so as to facilitate the engagement and removal of the shanks from the holder.

Another one of the objects of the invention resides in arranging the generally horizontally directed axes of the hinges of said horizontal members to slope slightly downwards from their inner ends to their remote ends in order that the horizontal members will separate laterally as they are hinged upwards.

The invention proposes a number of different designs for holders embodying the same inventive feature. These different designs may include designs for attachment on walls, designs for standing erect on flat surfaces, and designs for holding other articles in addition to the shanks.

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Still further the invention proposes a device of the class described which is simple and durable and which may be manufactured and sold at a reasonable cost.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawing forming a material part of this disclosure:

Fig. 1 is a perspective view of a holder for shanks having protuberances constructed in accordance with this invention and illustrated supporting a shaving brush.

Fig. 2 is a front view of the holder shown in Fig. 1, but illustrated with the shaving brush removed and with the members raised to vertical positions.

Fig. 3 is a perspective view of another holder for shanks having protuberances embodying the same invention illustrated supporting a safety razor.

Fig. 4 is a front elevational view of the holder shown in Fig. 3 with the safety razor removed and with the members hinged upwards to vertical positions.

Fig. 5 is still another holder for shanks having protuberances embodying the same invention.

Fig. 6 is a fragmentary transverse vertical sectional view taken on the line 6—6 of Fig. 5.

Fig. 7 is a fragmentary vertical sectional view taken on the line 7—7 of Fig. 6.

Fig. 8 is a horizontal sectional view taken on the line 8—8 of Fig. 6.

The holder for shanks having protuberances, in accordance with that form of the invention illustrated in Figs. 1 and 2, includes a vertical support 10 and a pair of horizontally adjacent horizontal members 11 hingedly mounted on said support 10 at their back portions upon generally horizontally directed axes in order that their front ends may be hinged upwards. These horizontal members 11 have in their adjacent edge portions semi-circular openings 12 through which a shank, such as the shank 14 of a shaving brush 15, or other object may pass while a protuberance 16 of said shank 14 rests on said members 11 by which the shank 14 is supported.

Means is mounted on the support 10 for restraining downward hinging of the members 11 from their horizontal positions. This means comprises a strip 18 mounted on the support 10 directly beneath the hinges of the members 11. The support 10 is in the nature of a plate which

is adapted to be mounted on a wall with several screws 19 engaging through the support 10. Means is associated with the members 11 for laterally separating said members 11 as they are hinged upwards. This means consists of a peculiar construction of the hinges of the members 11.

More particularly, the generally horizontally directed axes of the members 11 slope slightly downwards from their adjacent ends to their remote ends. This may be better understood by noting that pins 21 form the pintles for the hinges. The vertical support 10 has its top portion cut so as to form a central lug projection 22 and end lug projections 23. The adjacent faces of the lug projections 22 and 23 are at right angles to the pins 21. The members 11 have lug portions 24 engaging between these adjacent faces. The pins 21 pass through the lugs 23 and 24 and project into the lug 22. The pins 21 slope slightly downwards from their adjacent ends to the remote ends.

In Fig. 1 the members 11 are shown in their horizontal positions. When they are pivoted upwards they simultaneously separate because of the slight angles of the pins 21 forming their axes of hinging. When they reach vertical positions they are fully separated, as illustrated in Fig. 2. The shaving brush 15 may be removed in two ways. It may be pivoted sidewise so as to force one of the members 11 upwards, and then it may be pulled forwards and removed. The second way is to lift both of the members 11 simultaneously and they will separate, allowing the protuberance 16 to be moved downwards.

In Figs. 3 and 4 another form of holder has been disclosed constructed in accordance with this invention. This holder is substantially identical to the prior form of the invention, identical parts being indicated by the same reference numerals. However, it distinguishes from the prior form of the invention in the provision of a strip 30 mounted upon the support 10 at a point midway up from the bottom. This strip 30 has upwardly projecting lugs 31 at its ends at the sides of the support 10. A flat member 32 is formed with a reduced end 33 engaged in between the lugs 31. A pintle pin 34 passes through the lugs 31 and the reduced end 33 in order to hinge the member 32. When the member 32 is in a horizontal position, as illustrated in Fig. 3, it rests on the strip 30. The member 32 is free to be hinged upwards to a vertical position flat against the vertical support 10 as illustrated in Fig. 4.

The member 32 is formed with a slot 35 extended inwards from its free ends. The member 32 is also formed with ledges 36 upon its free ends extending upwards and located to the sides of the slot 35. A safety razor 37 may be supported on the member 32 when it is in a horizontal position as illustrated in Fig. 3. The holder may be folded flat, as illustrated in Fig. 4, when it is desired to place it in a travelling bag or when it is desired to fold it to a small compass for any reason whatsoever.

In other respects the operation of this form of the invention is identical to the prior form. For example, a shaving brush may be supported to the front of the safety razor 37, by the members 11 of this holder in the same manner illustrated in Fig. 1.

In Figs. 5 to 8 inclusive another form of holder has been illustrated which is very similar to the form shown in Figs. 3 and 4, distinguishing merely in the mounting thereof. More specifically, this holder has a vertical support 10' having its bottom corners notched out to form a reduced bottom end 40. The vertical support 10' is mounted on a flat base 41 which is adapted to rest on a flat surface. The flat base 41 is provided with a pair of upwardly directed lugs 42 at its sides. These lugs 42 are formed with opposed slots 43 into which the edge portions of the reduced portion 40 engages. The flat base 41 is also formed with a slot 44 in its top face between the lugs 42 into which the bottom portion of the reduced portion 40 engages. In other respects this form of the invention is identical to the previous forms and like parts have been indicated by like reference numerals.

The holder disclosed in Figs. 4 to 8 may be used to support a shaving brush and a safety razor. It may be rested upon an article of furniture. If it is desired to fold the holder to a small compass, useful during travel and at other times, it is merely necessary to lift the vertical support 10' out from the flat base 41. Then the members 11 and the member 32 may be pivoted upwards, as previously explained.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new and desire to secure by United States Letters Patent is:

1. A holder for shanks having protuberances, comprising a vertical support, a pair of horizontally adjacent horizontal members hingedly mounted on said support at one end upon generally horizontally directed axes in order that their other ends may be raised and having in their adjacent edge portions openings through which a shank may pass while a protuberance of said shank rests on said members and by which said shank is supported, and means for restraining downward movement of said members, said generally horizontally directed axes sloping downwards from their adjacent ends to their remote ends in order that said members separate laterally as they are moved upwards.

2. A holder for shanks having protuberances, comprising a vertical support, a pair of horizontally adjacent horizontal members hingedly mounted on said support at one end upon generally horizontally directed axes in order that their other ends may be raised and having in their adjacent edge portions openings through which a shank may pass while a protuberance of said shank rests on said members and by which said shank is supported, means for restraining downward movement of said members, and another member hingedly mounted on said support and formed with a slot for accommodating and supporting a safety razor and adapted to be hinged flat against said vertical support.

3. A holder for shanks having protuberances, comprising a vertical support, a pair of horizontally adjacent horizontal members hingedly mounted on said support at one end upon generally horizontally directed axes in order that their other ends may be raised and having in their adjacent edge portions openings through which a shank may pass while a protuberance of said shank rests on said members and by which said shank is supported, means for restraining downward movement of said members, and

means for holding said vertical support comprising a flat base having a pair of opposed lugs formed with slots for receiving the edge portions of said vertical support.

4. A holder for shanks having protuberances, comprising a vertical support, a pair of horizontally adjacent horizontal members hingedly mounted on said support at one end upon generally horizontally directed axes in order that their other ends may be raised and having in their adjacent edge portions openings through which a shank may pass while a protuberance of said shank rests on said members and by which said shank is supported, means for restraining downward movement of said members, and means for holding said vertical support comprising a flat base having a pair of opposed lugs formed with slots for receiving the edge portions of said vertical support, and the top face of said flat base being formed with a slot for receiving the bottom edge of said vertical support.

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