

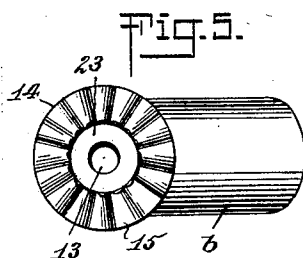
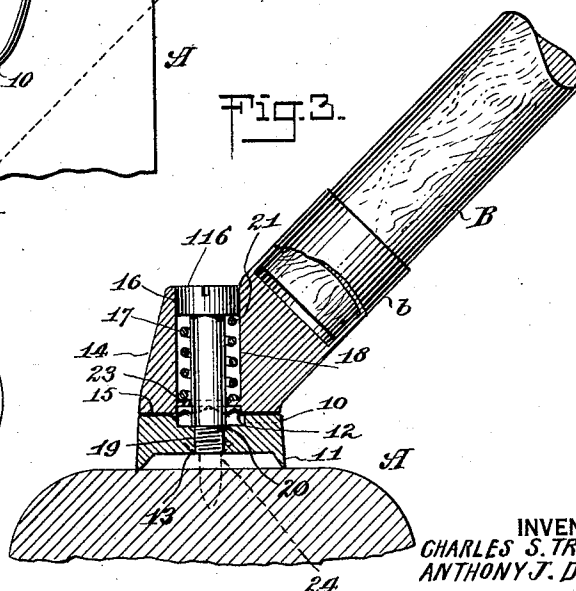
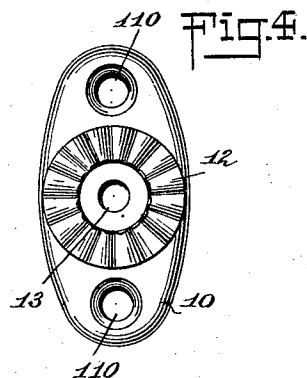
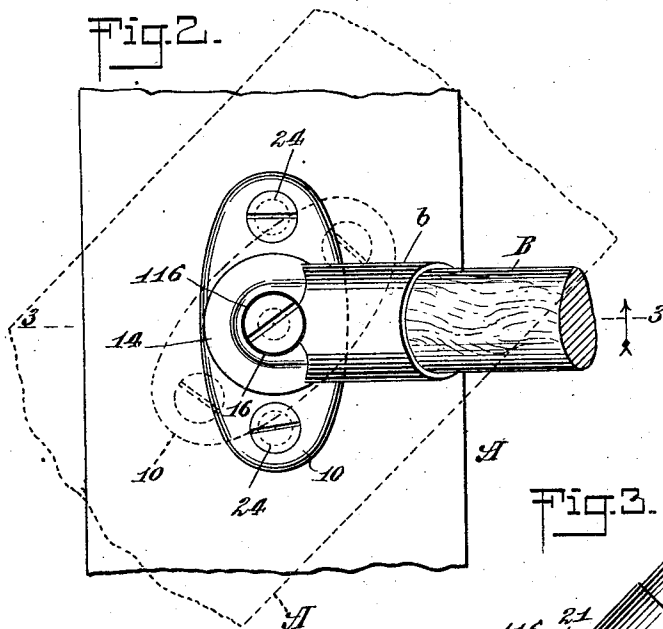
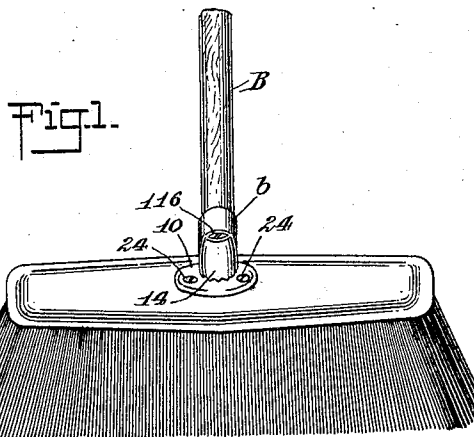
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HANDLE ADJUSTING MEANS

Filed Feb. 23, 1928



WITNESSES

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HANDLE-ADJUSTING MEANS

Application filed February 23, 1928. Serial No. 256,311.

Our invention relates to brushes, mops and other articles involving a brush head or the like, and hereinafter referred to as "the head," and more particularly to means for
5 connecting a handle with the brush head or the like.

The general object of our invention is to provide a novel and effective means for so connecting the head with the handle as to
10 permit the handle being readily swung laterally to one side or the other to vary its angle of position on the head.

A further and more specific object of our invention is to provide an assemblage in
15 which the pressure of a spring is made effective, first, to hold the handle element and the mating base element in clutch or positive engagement, and secondly, to provide in association with a fastening means for securing
20 the handle assemblage to the base element a frictional resistance opposing any tendency of the fastening means to loosen.

The nature of our invention and its distinguishing features and advantages will
25 clearly appear as the description proceeds.

Reference is to be had to the accompanying drawings forming a part of this specification, it being understood that the drawings are merely illustrative of one example of the
30 invention.

Figure 1 is a perspective view of a brush head and handle embodying our invention with the connecting means thereon;

Figure 2 is a plan view;

35 Figure 3 is a longitudinal vertical section through the head and handle terminal;

Figure 4 is a plan view of the fixed clutch member or element attached to a brush head or the like;

40 Figure 5 is an inverted plan view of the forward terminal of the handle showing the connecting clutch member.

In carrying out our invention in practice in accordance with the illustrated example,
45 a base element 10 is provided adapted to be secured to the head A of a brush, mop or similar article. Said base element 10 is formed on the side with depending lips 11 adapted to give edge contact with the head A.

50 The base element 10 constitutes at its upper

surface a clutch member, for which purpose it is formed with teeth, serrations, ridges or the like as indicated at 12, there being an axial hole in said element 10 to receive a
55 fastener hereinafter referred to.

The handle B is received at its forward end in a socket 7 as usual, said socket being in the case of our invention rigid with an element 14, the under side of which forms a clutch member 15 mating the member 12 as shown clearly
60 in Figure 5.

For effecting an adjustable connection between the handle element 14 and the base element 10 we provide a fastener 16 in the general form of a bolt or screw which is provided with a head 116 and with a shank 17,
65 said head and shank being receivable in a pocket or recess 18 in the element 14, as clearly shown in Figure 3. Shank 17 is formed with a reduced lower end 19 to produce a
70 shoulder 20 at the base of said threaded zone 19. The reduced and threaded zone 19 of the fastener 17 is receivable in the central bore or hole 13 of the base member 10.

A spring 21 is coiled about the shank 17,
75 said spring abutting at its upper end against the under side of the head 116 of the fastener 16. In the pocket or recess 18 in the handle element 14 there is an internal ledge or shoulder 23 provided preferably with an annular inwardly directed flange of unbroken continuity. Said ledge or shoulder 23 takes the pressure of the spring 21 at its lower end. Since the pressure of the spring is upwardly against the under side of the head 116 of the fastener 16 and downwardly against the flange 23 rigid with the handle element 14, the result is that the spring 21 tends to hold the mating clutch elements 12 and 15 in clutch and maintain the same in firm engagement.
80 Also, the pressure exerted on the under side of the head 116 of the fastener 16 resists any tendency of the fastener to become loose, the ultimate purpose being to hold the handle in a given angular adjustment relatively to the base element 10. The element 10 may be secured in practice in any suitable manner to the head A, there being shown in said element holes 110 adapted to receive fastening
85 screws 24.

The unscrewing of the fastener 17 to loosen its engagement with said element 10 permits of the handle B being turned to any desired angle laterally, the pressure of moving the handle laterally being only sufficient to overcome the resistance of the spring 21 to cause the clutch members to ride one over the other. To again firmly engage the clutch elements the fastener 17 is screwed firmly to place.

10 We would state furthermore that while the illustrated example constitutes a practical embodiment of our invention, we do not limit ourselves strictly to the exact details herein illustrated, since, manifestly, the same can be
15 considerably varied without departure from the spirit of the invention as defined in the appended claim.

We claim:

In a device for adjustably securing a handle to a head, including a base element having means whereby to secure the same to the head and having a threaded hole therein, as well as a countersunk depression and a clutch surface at the top outside of said depression
25 and concentric with said hole, a handle element presenting at its under side a mating clutch surface and having a pocket therein, an internal ledge on the handle element in said pocket, a headed fastener having a threaded
30 reduced zone adapted to engage the threaded hole in the base element and having a shoulder at the base of said threaded zone adapted to bear against the bottom of said countersunk depression, and a spring in said pocket
35 and coiled about said headed fastener, said spring exerting pressure at its upper end against the under side of the head of the fastener and exerting pressure at its lower portion against said ledge.

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