

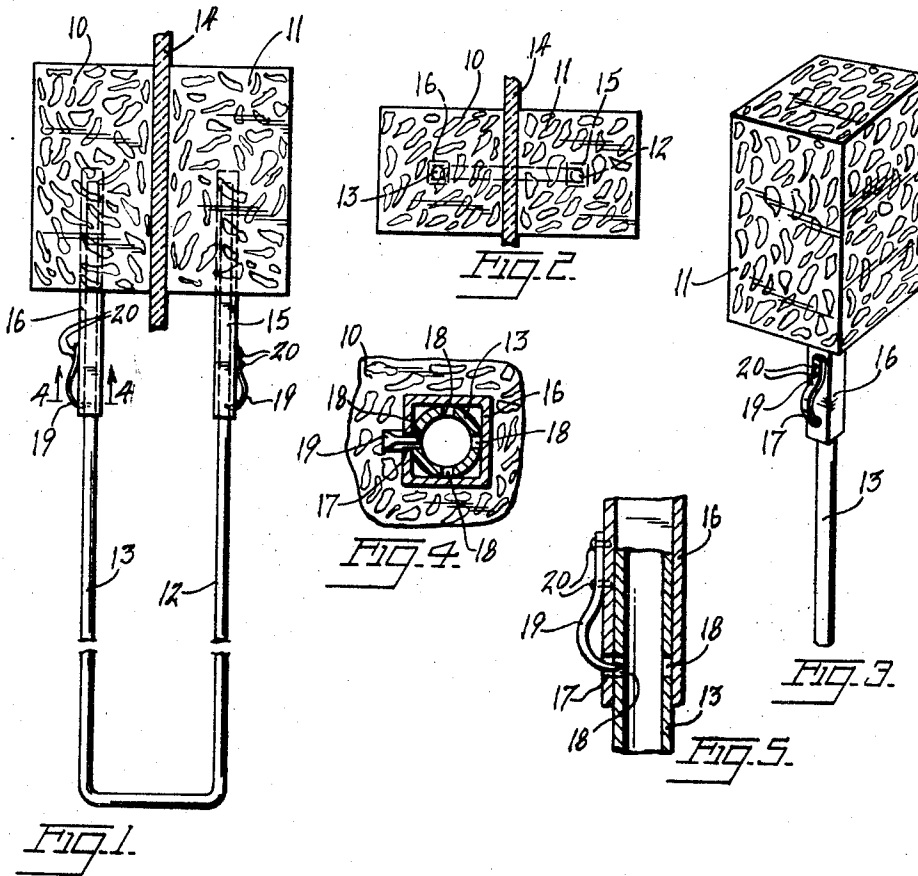
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DISHES AND WINDOW CLEANING DEVICE

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DISHES AND WINDOW CLEANING DEVICE

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4 Claims. (Cl. 15—220)

The present invention relates to improvements in cleaning devices and, more particularly, to devices adapted simultaneously to clean both sides of windows or dishes.

It is the main object of my invention to provide a cleaning device having spaced elements or heads for straddling both sides of the window pane or dish which is to be cleaned. Thus both sides of the pane or dish may be cleaned concurrently. In the case of window panes, the device eliminates the need of the operator to sit upon the sill and to project his body outside the window when cleaning the outer surface thereof, thereby risking injury by falling. A device according to the invention will preclude any possibility of injury in this manner.

A further object of my invention is to provide a device with opposed complementary cleaning heads which are adapted to operate simultaneously upon opposite surfaces of a window pane. Each head is of parallelepiped form and includes four active cleaning faces. The invention is further characterized in the fact that means are included selectively to turn any desired face of the head into an operative position, so that as any one face becomes excessively soiled, another and cleaner face may be presented.

Still another object of my invention is to provide means for manually controlling the pressure of the cleaning heads upon the window pane.

Yet another object of my invention is to furnish novel means for rapidly detaching the cleaning heads from the handle therefor.

An additional object of my invention is to provide a bifurcated handle adapted to clamp standard size sponge pads thereon to form a double-headed cleaning device.

It is also an object of the invention to provide a cleaning device of simple and durable design which can 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 drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

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

Fig. 1 is a front elevational view of a preferred embodiment of a cleaning device in accordance with the invention.

Fig. 2 is a top plan view of said device.

Fig. 3 is a perspective view of one of the detachable cleaning heads.

Fig. 4 is an enlarged sectional view taken along the lines 4—4 of Fig. 1.

Fig. 5 is an enlarged section of a detail of the device.

Referring now to the drawings, a cleaning device in accordance with the invention comprises a pair of cleaning heads 10 and 11, and an elongated U-shaped handle having a pair of tubular arms 12 and 13 of sufficient length to straddle a sash and a window pane from either the top or bottom thereof, reference number 14 designating a window pane.

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As shown separately in Fig. 2, each cleaning head is constituted by a block of parallelepiped configuration provided with two ends and four faces. The heads are fabricated of sponge material, foam rubber or other suitable cleaning material. Embedded in heads 10 and 11 and extending therefrom through the lower ends are hollow socket members 15 and 16, respectively, having a square cross-section. The socket members are glued, cemented or otherwise attached to the body of the sponge.

Received within the socket members 15 and 16 are the free ends of the tubular arms 12 and 13, respectively. Adjacent the exposed end of each of sockets 15 and 16 is an aperture 17. Formed circumferentially in each of arms 12 and 13 adjacent the free ends thereof are four equally spaced bores 18 which are alignable with the adjacent aperture 17 by rotation of the associated head.

To connect the arms to the sockets and thereby maintain the heads on the handle, there are provided spring claws 19. One end of each claw 19 is affixed by a rivet 20 to its respective socket, while the other and pointed end thereof projects into aperture 17 to penetrate one of the bores 18 in the arm thereby locking the head on the arm. Thus to turn the head so that a desired face thereof is in an operative position, one has only to lift the spring claw 19 out of the engaged bore, and to turn the head to the desired position, at which point the claw is released to engage the selected bore.

The handle may be made of tubular metal or plastic and should possess a degree of flexibility, such that arms 12 and 13 tend to urge heads 10 and 11 toward each other. When using the cleaner, arms 12 and 13 are manually spread apart to an extent necessary to pass the heads across the frame of the window and the arms are then released so that the heads clamp the opposing window pane surfaces. The handle arms may also be made of solid material such as wood, in which event, in lieu of bore 18, four equally spaced recesses are formed in each of the arms to receive the pointed end of claw 19.

It will be noted that I have provided a cleaning device for window or dishes that can clean a window or dish twice as fast as the ordinary cleaning device thereby saving labor and expense. No risk to life or limb is involved in the cleaning operation as the operator may stand in the room and clean a window and does not have to project any part of his body outside the window.

All of the cleaning devices are oblong in shape and may be in the form of sponges, brushes, mops or ordinary window-wipers and may be of different materials.

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 window cleaning device comprising a U-shaped handle having two arms adapted to straddle a window pane, a pair of rectangular-shaped cleaning heads provided with hollow protruding sockets each of said sockets having an aperture at its outer protruding end, and selective means to detachably connect said sockets to the respective arms of said handle whereby a selected face of said head is adapted to engage a surface of said window, said means comprising a spring claw affixed to each of said sockets and projecting through the aperture in said socket to engage the respective arm.

2. The combination according to claim 1 wherein each socket comprises a square tube embedded in the related

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head and the arms of the handle engaging therein are circular.

3. The combination according to claim 2 wherein each said arm is provided with a plurality of angularly spaced radial holes engageable by said claw.

4. The combination according to claim 2 wherein each said arm is provided with angularly spaced radial holes engageable by said claw whereby any selected side face of either head may be positioned for engagement with a window.

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