

UNITED STATES PATENT OFFICE

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SUSPENSION-TYPE CHIMNEY BRUSH

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1 Claim. (Cl. 15—163)

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This invention relates to improvements in brushes, and more particularly to the provision of a novel brush for sweeping chimneys.

It is an object of the invention to provide a brush by means of which the operation of sweeping a chimney is greatly facilitated and expedited.

A further object is to provide a chimney sweeping brush which is simple structure, inexpensive to manufacture and has few parts to get out of order.

A further object is to provide a chimney sweeping brush which can be easily lowered into chimney, and easily opened and spread when it has been lowered to a desired position.

These and other objects are attained by the novel construction and arrangement of parts hereinafter described and illustrated by the accompanying drawings, forming a part hereof, and in which:

Fig. 1 is a sectional view of the brush when in a contracted condition on line 1—1 of Fig. 2.

Fig. 2 is a bottom plan view of the brush taken on the line 2—2 of Fig. 1.

Fig. 3 is a sectional view of the brush in an expanded condition.

Fig. 4 is a plan view of a hinge used in the brush.

Fig. 5 shows plan and side view of pin slides used in the device.

Fig. 6 are plan and side views of other pin slides used in the device.

Referring to the drawings, the device is shown to comprise four blocks 1, 2, 3, 4, from which project metal bristles 5, the blocks being spaced and at its upper end each block has a hinge plate 7 connected to a common central plate 6, having a center hole 8 in which is positioned a bushing 9 through which passes a pin 10. A cap 11 is threadably connected to the upper end of the pin 10, and a ring 12 is connected to the cap, the ring 12 being adapted to receive a rope.

Encircling the pin 10 is a spring 13 which bears against a pin or disc 14 fixed to the lower end of the pin 10, the upper end of the spring 13 abutting the bushing 9, and the lower end 15 of the pin is pointed.

On the inner side of block 1 is a pin slide 17 having a slot 16, and a flange 18 by means of which the slide is attached to the block. On the opposite block 2 is a similar pin slide 20 having a slot 19 and a flange 21 for attaching the slide to the block. The two slides are positioned one above the other and adapted to have the pin pass through the slots thereof.

The block 3 and its opposite block 4 are provided with similar pin slides.

Connected to the lower portion of blocks 1 and 2 is a leaf spring 22, and connected to the lower

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portion of blocks 3 and 4 is a leaf spring 23. The upper and lower ends of the blocks are arced at 24 and 25 to enable the brush to be easily lowered and withdrawn.

In operation, the pin 10 is inserted through the slots 16 and 19 to hold the blocks together as shown in Fig. 1. The brush is lowered into the chimney as far as desired, and the rope is jerked to remove the pin 10, allowing the springs 22 and 23 to expand the brush by spreading the blocks apart as shown in Fig. 2. The chimney sweeping operations can then be effectively and easily performed by drawing the brush up out of the chimney.

The device is simple in structure, inexpensive, and obviously facilitates the cleaning of chimneys.

The above description is to be considered as illustrative and not limitative of the invention of which modifications can be made without departing from the spirit and scope as set forth in the appended claim.

The invention having been described, what is claimed is:

A brush for sweeping chimneys, comprising a plurality of blocks having bristles thereon, said blocks being spaced and having hinge members attached thereto, a plate connected to the hinge members and having a central hole, a bushing passing through the hole, a pin passing through the bushing and having a disc fixed to the end thereof extending between the blocks, a coiled spring encircling the pin and abutting the bushing and disc, a pin slides having flanges thereon that are secured to the inner sides of the opposite blocks, and said pin slides having slots therein to receive the pin, a leaf spring connected to the opposite blocks at the ends opposite to the hinge members to force said blocks outwardly of each other, said pin being adapted to retain the blocks in compressed position when in the slots in said slides and to permit action of the leaf springs when removed from said slides.

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