No. 701,507. Patented June 3, 1902.

G. W. RICHARDSON.

BRUSH BROOM.

(Application filed Mar. 3, 1902.)

(No Model.)

Fig. 1.

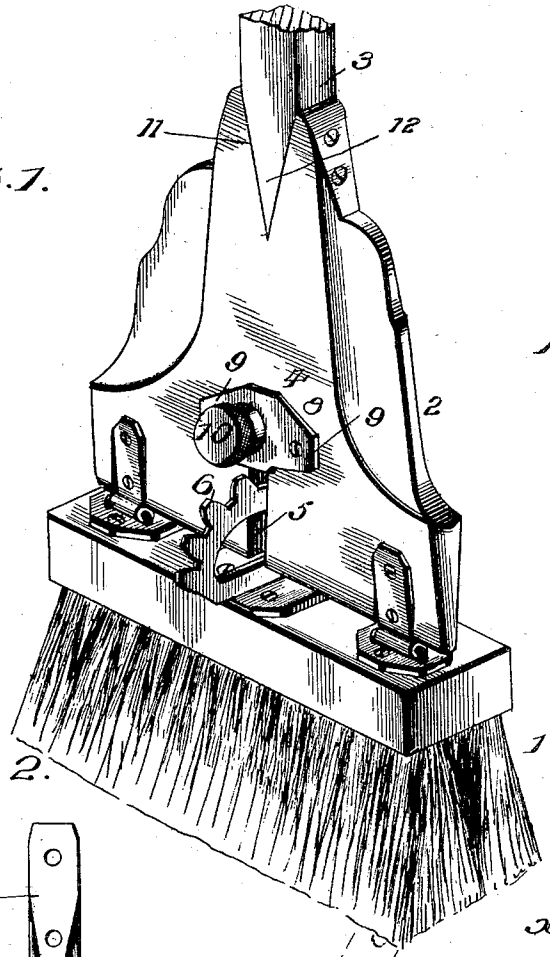


Fig. 2.

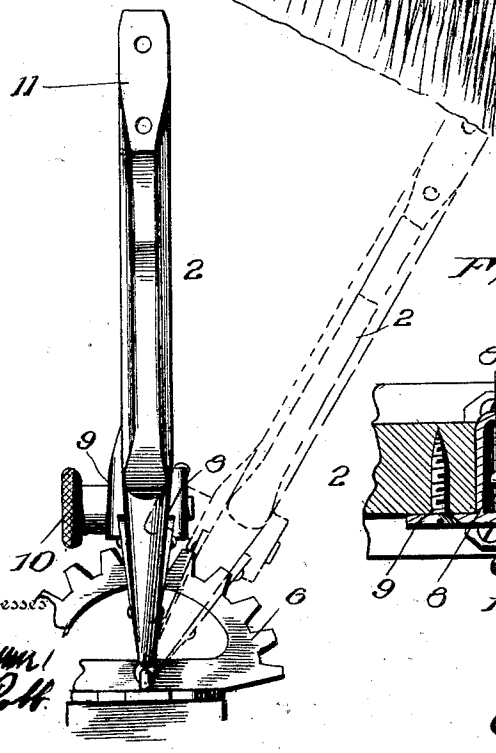


Fig. 3.

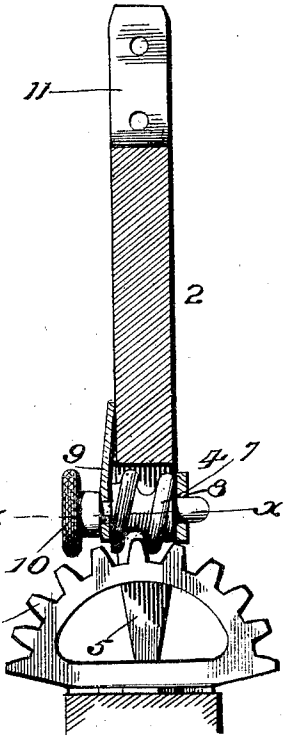
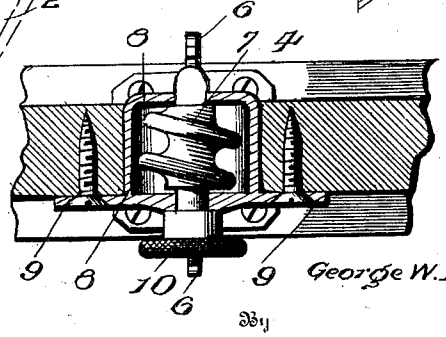


Fig. 4.



Witnesses

Inventor

George W. Richardson

By

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

GEORGE W. RICHARDSON, OF SPARTA, WISCONSIN, ASSIGNOR OF TWO-THIRDS TO EDGAR W. DICKERSON AND WILLIAM W. HUBBELL, OF SPARTA, WISCONSIN.

BRUSH-BROOM.

SPECIFICATION forming part of Letters Patent No. 701,507, dated June 3, 1902.

Application filed March 3, 1902. Serial No. 96,487. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. RICHARDSON, a citizen of the United States, residing at Sparta, in the county of Monroe and State of Wisconsin, have invented certain new and useful Improvements in Brush-Brooms; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention has relation to brushes and analogous articles provided with a handle capable of angular adjustment to admit of convenient use of the brush, mop, or the like when cleaning a floor, wall, or other surface.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and drawings hereto attached.

While the essential and characteristic features of the invention are susceptible of modification, still the preferred embodiment of the invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a brush-broom embodying the invention. Fig. 2 is a side view thereof, showing different positions of the handle by full and dotted lines. Fig. 3 is a vertical central section showing more clearly the segment and worm coöperating therewith. Fig. 4 is a horizontal section about on the line X X of Fig. 3.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The brush 1 is illustrative of the class of devices for which the invention is designed. A plate or frame 2 is pivotally connected with the back of the brush, so as to swing to any required angular position, and is provided with the handle 3, by means of which the brush is manipulated. The plate or frame may be of any construction, and, as shown, its upper end is formed with a V-shaped notch 11, into which the V-shaped end 12 of the handle is fitted and firmly secured in any substantial way. An opening 4 is provided in the lower portion of the plate or frame 2, and a slot 5 extends therefrom for reception of the segment 6, attached to the brush-back 1 and projected at a right angle therefrom and toothed at its upper or outer edge. A worm 7 is applied to the plate or frame 2 and is adapted to coöperate with the teeth of the segment 6 to effect an adjustment of the plate or frame 2 and hold the latter in an adjusted position. This worm is journaled in a frame 8, fitted in the opening 4 and having oppositely-extended ears 9 to overlap a side of the plate or frame and apertured to receive screws or fastenings, by means of which they are attached thereto for holding the frame 8 in place. The worm 7 has oppositely-extended journals mounted in the front and rear plates of the frame 8, and one of the journals is provided with a thumb-piece 10, milled or knurled for rotation to effect adjustment of the frame or plate. The thread of the worm extends crosswise of the segment and constitutes a stop to hold the plate or frame 2 in the desired angular adjustment. By turning the worm either to the right or to the left coöperation thereof with the teeth of the segment causes the plate or frame 2, provided with the handle, to turn forward or backward, and when the desired adjusted position has been attained the parts remain fixed, since the worm also constitutes a lock and prevents displacement of the plate or frame.

My invention provides an exceedingly convenient sweeper for household use in that it is adapted to be conveniently employed for sweeping under beds or furniture, as well as for sweeping down walls.

Having thus described the invention, what is claimed as new is—

1. In combination with a brush, a handle having pivotal connection therewith, a toothed segment and worm-wheel coöperating with and secured to the respective parts to admit of moving the same to any desired position, substantially as set forth.

2. In combination, a brush, a frame pivoted to the brush, and having an opening and a slot extended from said opening, a toothed

segment secured to the brush and arranged in the said slot, and a worm journaled in the opening of the said frame and coöperating with the toothed segment for adjustment of the handle, substantially as set forth.

3. In combination, a brush, a frame pivoted to the brush and having a slot and an opening, a second frame fitted in the opening of the pivoted frame and having oppositely-extended parts overlapping and secured to a side thereof, a toothed segment secured to the brush and passing through the slot of the pivoted frame, and a worm journaled in the frame secured to the pivoted frame and having a thumb-piece, substantially as set forth.

In testimony whereof I affix my signature in presence of witnesses.

GEORGE W. RICHARDSON. [L. S.]

Witnesses:
E. W. DICKERSON,
W. G. BARTLETT.