J. A. HOWARD, Sr.

ELECTRIC FLOOR MOP OR BRUSH.

APPLICATION FILED JULY 3, 1920.

1,393,532. Patented Oct. 11, 1921.

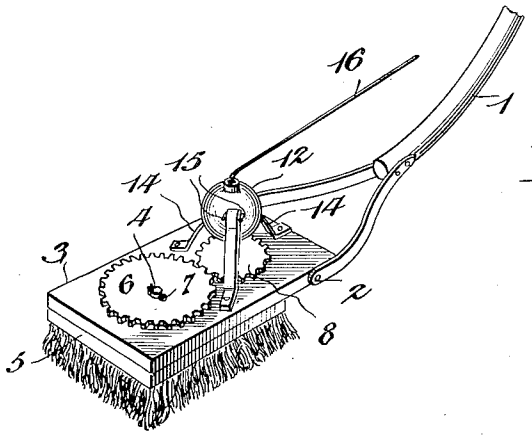


Fig. 1.

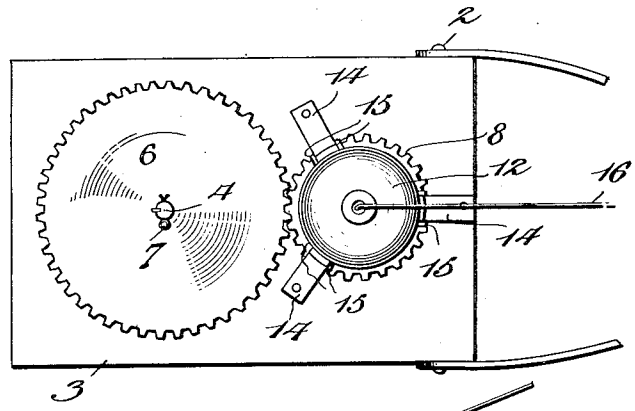


Fig. 2.

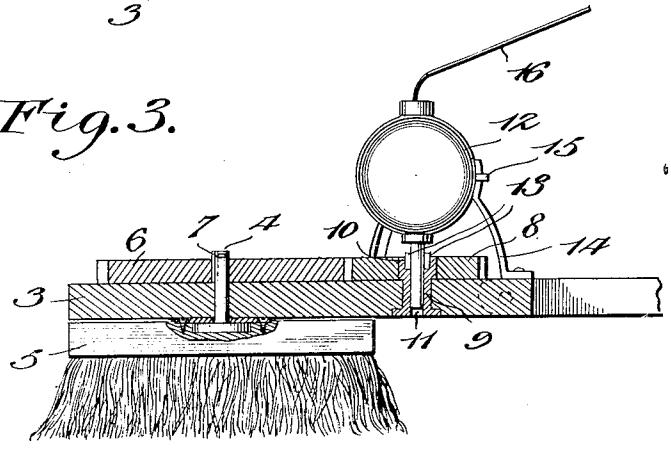


Fig. 3.

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UNITED STATES PATENT OFFICE.

JOHN A. HOWARD, SR., OF WEST NEW BRIGHTON, NEW YORK, ASSIGNOR TO CAMWARD ENGINEERING CO., INC., A CORPORATION OF NEW YORK.

ELECTRIC FLOOR MOP OR BRUSH.

1,393,532. Specification of Letters Patent. Patented Oct. 11, 1921.

Application filed July 3, 1920. Serial No. 393,846.

To all whom it may concern:

Be it known that I, JOHN A. HOWARD, Sr., a citizen of the United States, residing at West New Brighton, Staten Island, in the county of Richmond and State of New York, have invented new and useful Improvements in Electric Floor Mops or Brushes, of which the following is a specification.

This invention relates to improvements in mops or floor brushes, and one of the objects is to provide a device of this kind with a motor for giving rotary motion to the tufted portion.

Another object is to provide easy means for locking the motor shaft to the gearing mechanism.

Another object is to provide means for removably supporting the motor.

With these and incidental objects in view, the invention consists in certain novel construction and combination and arrangement of parts, the essential features of which are hereinafter described and claimed, and one embodiment of which is shown in the accompanying drawing consisting of one sheet, in which:—

Figure 1 is a perspective view of my improved mop or floor brush.

Fig. 2 is a top plan view of the same.

Fig. 3 is a vertical sectional elevatioin of the same.

Like characters of reference refer to like parts in both views.

This invention contemplates the providing of a mop having a rotatable portion carrying tufts of hair, bristles or strings, and provided with a motor and gearing for driving said rotatable portion. The motor is seated in arms from which it may be easily removed when it is desired to dip the mop in water and the motor shaft is provided with keys for securing it to the gearing. The tufted portion is made square so that by turning off the power, the mop may be worked in the corners. The device is illustrated as a mop but it is to be understood that the principal could be used for bristles instead of strings so as to provide a brush for scrubbing, cleaning walls, etc.

Referring more particularly to the drawings, 1 represents a handle of the mop which may be pivotally attached at 2 to the body member 3. A shaft 4 is supported in bearings in member 3 and is provided at its lower end with a mop member 5, while at the top of said member 3, shaft 4 is provided with a key-way whereby it is engaged with a gear 6, a cotter pin 7 preventing disengagement of members 4 and 6.

A gear 8 is meshed with gear 6 and is mounted in a bushing 9 firmly secured to turn with said bushing, said bushing having a bearing in the member 3. The bushing is provided with key-ways 10 at its upper end and with an opening 11 extending through it from top to bottom.

A motor is represented at 12 and the motor shaft is adapted to extend down into aperture 11, and is provided with a pair of keys 13 which effect into the ways 11 of the gear bushing 9. The motor is supported between spring brackets 14 from which it may be removed by pulling it upwardly. The motor is provided with anchor pins 15 which prevent its movement cross-wise of said brackets 14. The usual electric wire 16 is attached in any suitable manner.

In operation, the motor is placed in its brackets and the current turned on, which effects rotating of the mop or tufted portion 5. The device is then used as any ordinary mop or floor brush. When it is desired to work in a corner the current is turned off and the mop is then adapted by its shape for this purpose. When the mop is to be dipped into water the motor is removed, and after the mop is cleansed the motor is replaced.

While I have described, what I deem to be the most desirable embodiment of my invention, it is obvious that many of the details may be varied without in any way departing from the spirit of my invention; and I therefore do not limit myself to the exact details of construction herewith set forth nor to anything less than the whole of my invention limited only by the appended claim.

What I claim as new and desire to secure by Letters Patent is:—

A mop comprising a base, a tufted member rotatably supported by said base, a motor operable for rotating said tufted member, and spring brackets for removably supporting said motor as and for the purpose set forth.

In testimony whereof I have affixed my signature.

JOHN A. HOWARD, Sr.