

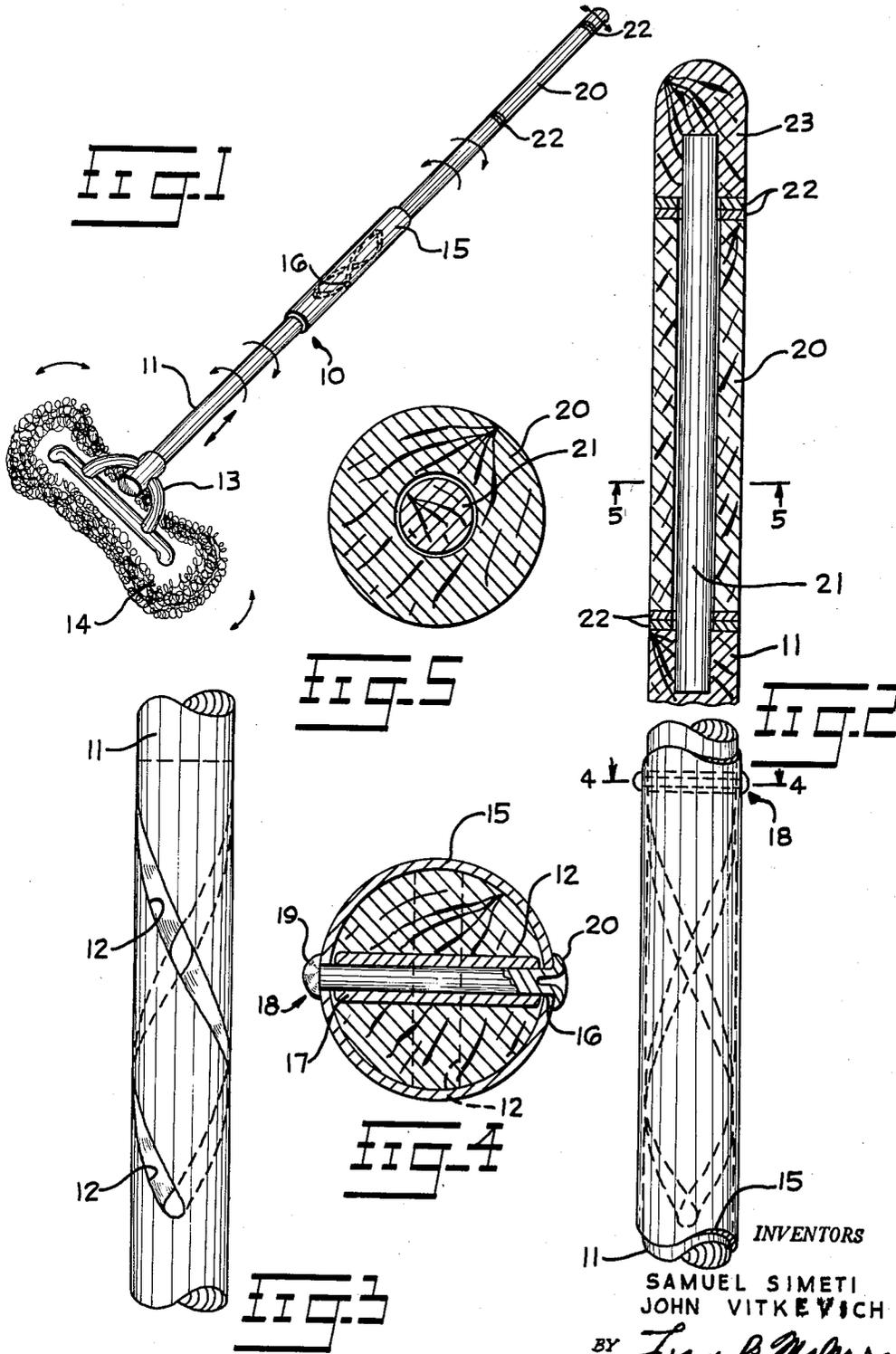
March 28, 1961

S. SIMETI ET AL

2,976,553

MOP

Filed Jan. 21, 1960



INVENTORS
SAMUEL SIMETI
JOHN VITKEVICH
BY *Frank Makara*
ATTORNEY

1

2,976,553

MOP

Samuel Simeji, 41 Ave. I, Farmingdale, N.Y., and
John Vitkevich, 57 Gridley St., West Islip, N.Y.

Filed Jan. 21, 1960, Ser. No. 3,837

2 Claims. (Cl. 15—147)

2

This invention relates to a cleaning mop. It is an object of this invention to provide a mop adapted to be easily freed of pick-up debris by centrifugal rotation of the mop head.

It is another object to provide a mop having a manually rotated mop head.

It is a further object to provide a sturdy mop of a fool-proof and inexpensive construction.

These and other objects of this invention will become apparent upon reading the following descriptive disclosure taken in conjunction with the accompanying drawing in which—

Fig. 1 is a perspective view of the mop showing the rotatable mop head fixedly secured to a mop handle,

Fig. 2 is a view of the mop handle, broken away in part, showing a sleeve mounted upon the handle over a spiral groove and further showing a handle element rotatably mounted at the end of the handle opposed to the mop head,

Fig. 3 is a view of the spiral groove in the handle,

Fig. 4 is a view taken on line 4—4 of Fig. 2 and showing the sleeve securing pin and the roller thereon disposed in the handle groove, and

Fig. 5 is a view taken on line 5—5 of Fig. 2 and showing the manner of disposing the handle element rotatably on a dowel fixed in said handle.

Turning to the drawing, a mop 10 is provided with a mop handle 11 having a suitable spiral slot or groove 12 therein. The spiral groove 12 is of suitable length and preferably of about 270 degrees of spiral. The handle 11 is solid and preferably made of wood or plastic.

The groove 12 is cut into the handle 11 by conventional means. The handle 11 is secured fixedly to a metal bridge element 13 which in turn is fixedly secured in the mop head 14.

A sleeve 15 preferably of metal and of suitable length and diameter is slipped onto the handle 11 and over the groove 12.

The sleeve 15 is provided with a pair of suitable apertures in its middle, said apertures being disposed in a diametrically opposed relationship. A tubular roller collar 17 is first disposed in the groove 12 and the sleeve 15 is then suitably slipped over the groove and the collar 17 therein so that the apertures 16 of the sleeve mate with the hole in the collar 17. A suitable rivet pin 18 having a firm head 19 is then inserted into the sleeve apertures and collar hole and then peened over to form a rivet head 20, thereby holding the sleeve 15 and pin 18 with the collar 17 thereon captively relative to said groove 12.

The sleeve 15 is preferably a bit longer than twice the length of the groove 12 so that the sleeve 15 covers the groove 12 at all times.

A tubular handle element 20, preferably made of wood, is provided on the outer end of the handle and away from the mop 14.

To effect rotation of the handle 11 a wooden dowel pin 21 of suitable length is disposed in a suitable cavity in the

top end of the handle 11 and fixed therein by adhesive. Next a pair of suitable metal washers 22 are disposed upon the dowel pin 21 and the handle element 20 is then slipped onto the pin 21 and the washers 22. Then another pair of washers 22 are added upon dowel pin 21 on top of the handle element 20. Lastly a wooden cap 23 having a suitable central cavity therein is fixedly secured to the top end of the dowel pin (Fig. 2) by the use of suitable adhesive or otherwise.

As shown in Fig. 5, the handle element is rotatably mounted upon the dowel pin 21. In practice the handle element 20 is firmly held in one hand and the dowel pin 21 fixedly secured to handle 11 is rotated as a unit along with cap 23 which is also fixed to said dowel pin.

The use of the pairs of metal washers 22 reduce frictional resistance. However the device is operable without said washers 22.

In operating the device of this invention the sleeve is held in one hand and the handle element 20 in the other. Movement of the handle element 20 toward and away from the sleeve 11 a distance equal to the straight linear length of the groove 12 causes the mop handle 11 and mop 14 thereon to rotate clockwise and counterclockwise thereby flinging off any dust adhering to said mop head 14.

The handle element 20 during the above operation does not rotate but the dowel pin 21 therein does rotate along with cap 23.

It is thus seen that the use of this invention does away with the need for shaking a mop so that the mop head 14 may be cleaned, if desired, by inserting it into a suitable large stationary bag or container. Thus the use of applicants' invention avoids air pollution caused by shaking dust mops out of apartment house windows.

This invention has been described by means of an illustrative embodiment but it is not limited thereto as it includes the collar 17 being rotatably mounted on rivet pin 18.

We claim:

1. A cleaning mop consisting essentially of a solid mop handle having substantially in the center of said handle a spiral slot therethrough of suitable length, a tubular sleeve of substantially twice the slot length slidably disposed over said handle slot, said sleeve having a pair of diametrically opposed apertures centrally located in said sleeve, a tubular roller collar disposed in said slot with the hole of the collar in line with the apertures of said sleeve, a rivet pin disposed through said pair of apertures in said sleeve and said tubular collar securing said sleeve and said collar to said handle, a dowel pin fixedly secured to the top end of said handle, a tubular handle element rotatably mounted on said dowel pin, a cap having a cavity therein fixedly secured to the other end of said dowel pin, a mop retaining bridge element secured to the other end of said handle and a mop head secured to said bridge element whereby seizure of said rotatable handle element in one hand and seizure of the sleeve in the other with movement of the handle element toward and away from said sleeve effects rotation clockwise and counterclockwise of said mop head, mop handle and dowel pin with the cap thereon.

2. The cleaning mop of claim 1 wherein the spiral slot has a turning angle of about 270 degrees and comprising a pair of washers below and above said rotatable handle element.

References Cited in the file of this patent

UNITED STATES PATENTS

| | | |
|-----------|---------|---------------|
| 1,120,813 | Harbian | Dec. 15, 1914 |
| 2,660,745 | Yusko | Dec. 1, 1953 |
| 2,944,431 | Dexter | July 12, 1960 |