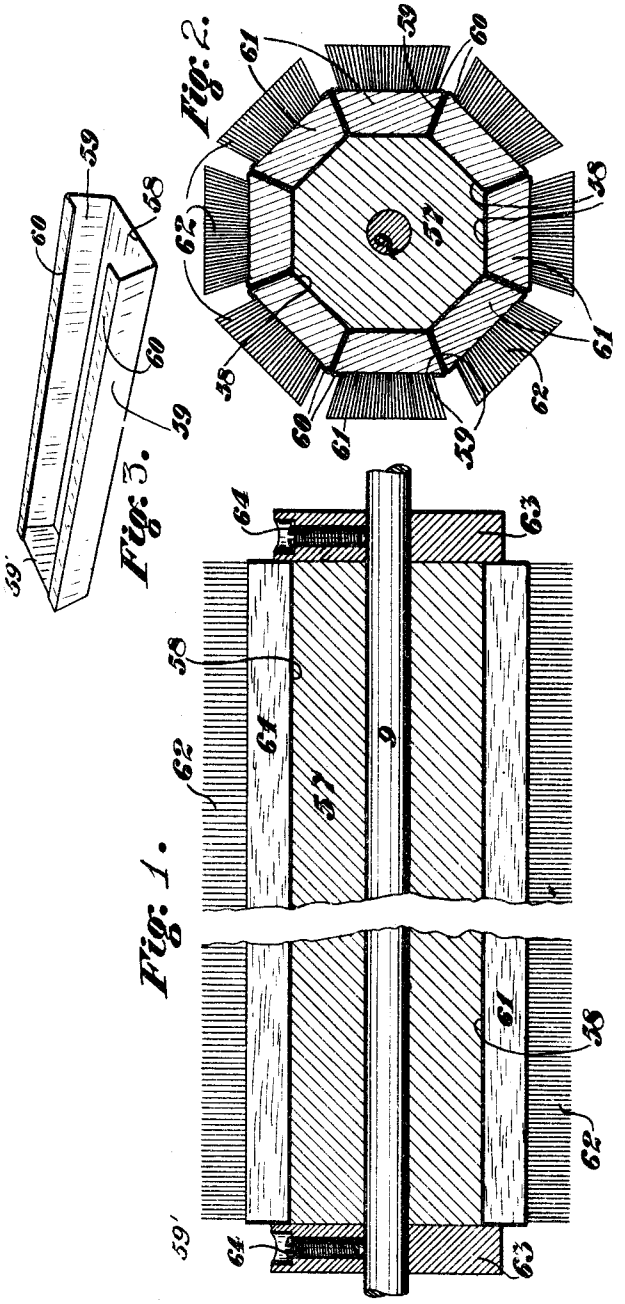
J. A. FRITSCH.

BRUSH.

APPLICATION FILED APR. 7, 1913.

1,130,673. Patented Mar. 2, 1915.



Witnesses:

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Fred'k Staub

Inventor:

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UNITED STATES PATENT OFFICE.

JOHN A. FRITSCH, OF PITTSBURGH, PENNSYLVANIA.

BRUSH.

1,130,673. Specification of Letters Patent. Patented Mar. 2, 1915.

Continuation of application Serial No. 741,484, filed January 11, 1913. This application filed April 7, 1913. Serial No. 759,358.

To all whom it may concern:

Be it known that I, JOHN A. FRITSCH, a citizen of the United States, residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Brushes, of which the following is a specification.

My invention consists of an improvement in brushes, especially adapted for use in a machine for cleaning cushions, carpets, etc., and has for its object to provide a sectional brush especially adapted to the cleaning of such articles, or for any use to which it may be put.

The invention has in view to provide a scrubbing or cleaning brush, in generally cylindrical form, consisting of a central spindle or core having a rotating shaft, a plurality of housings or holding boxes thereon, and a corresponding series of individual brushes removably mounted therein, as shall be more fully hereinafter described.

The present application is a continuation of my prior application for cushion cleaning machine, Serial No. 741484, filed Jany. 11, 1913.

One preferred form of the device is illustrated in the accompanying drawings in which—

Figure 1 is an enlarged sectional detail view of my improved brush partly broken away. Fig. 2 is a cross sectional view of the brush. Fig. 3 is a perspective detail view of one of the brush holders or housings.

The improved revoluble brush construction which I have especially designed is intended to provide for reversal of the several brush sections, or renewal thereof when worn. For such purpose the central core or body of the brush 57, which may be of wood or other suitable material, having the central actuating shaft 9, is made polygonal in cross section, as hexagonal, or octagonal, as shown. Secured upon such polygonal face is a series of housings 58, which may be conveniently made of sheet metal, having diverging sides 59 terminating in inwardly turned lips 60 and providing a receiving dovetail-shaped recess for each individual brush back 61, of corresponding shape in cross section, with an endmost terminal wall 59′. By this construction each brush, having the usual bristles 62, may be inserted length-wise of the main brush structure and fixedly held in its particular housing, so that when all of the several brushes are thus assembled they will be maintained in operative position, and will provide a substantially continuous peripheral brush surface. For the purpose of so holding the several brush sections and housings against longitudinal movement, one or both ends of the central shaft 9 or 10 may be provided with a disk or collar 63 having a securing set screw 64, or other suitable means, whereby the brush sections may be maintained in place and may also be easily removed. Thus, after the brush has been used for some little time, the brush bristles will have a tendency to be bent backwardly from the direction of action of the article being brushed. In such case, the brush sections are withdrawn from their longitudinal housings and reversed in position, presenting the bristles in the reversed direction so that the efficiency of the brush is thereby renewed, and its lift maintained for a very considerable period, utilizing the brushes to their fullest possible extent.

The advantages of the brush as thus made will be readily understood and appreciated from the foregoing description. It is especially adapted to use with a cushion cleaning machine like that of my Patent No. 1072843 dated September 9, 1913.

It will be understood that the construction of the brush may be changed or varied by the skilled mechanic and adapted to the particular work intended by so proportioning it as to its different parts and dimensions to the work in view. It is comparatively simple and cheap in construction, while having the several advantages noted, and will be found to accomplish its intended functions in a highly successful manner.

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

In a rotatable brush, the combination of a supporting shaft, a supporting base mounted centrally thereon polygonal in cross section, a plurality of brush housings having base portions abutting against the polygonal faces of said base longitudinally thereof and secured thereto, each of said housings having radially disposed diverging side walls extending outwardly from the base conforming to the side walls of adjacent housings and having inwardly turned terminal lips and an endmost wall extend-

ing outwardly from the base portion, a series of individual brushes having backs corresponding in cross section to the housings and fitting snugly therein and provided with outwardly extending bristles for the full length of said backs and endmost collars removably secured on the shaft and engaging the ends of said housings and holding them fixedly in position, one of said collars also engaging the backs at one end whereby they may be individually withdrawn longitudinally of the housings upon movement of said collar, substantially as set forth.

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

JOHN A. FRITSCH.

Witnesses:
C. M. CLARKE,
FRED'K STAUB.