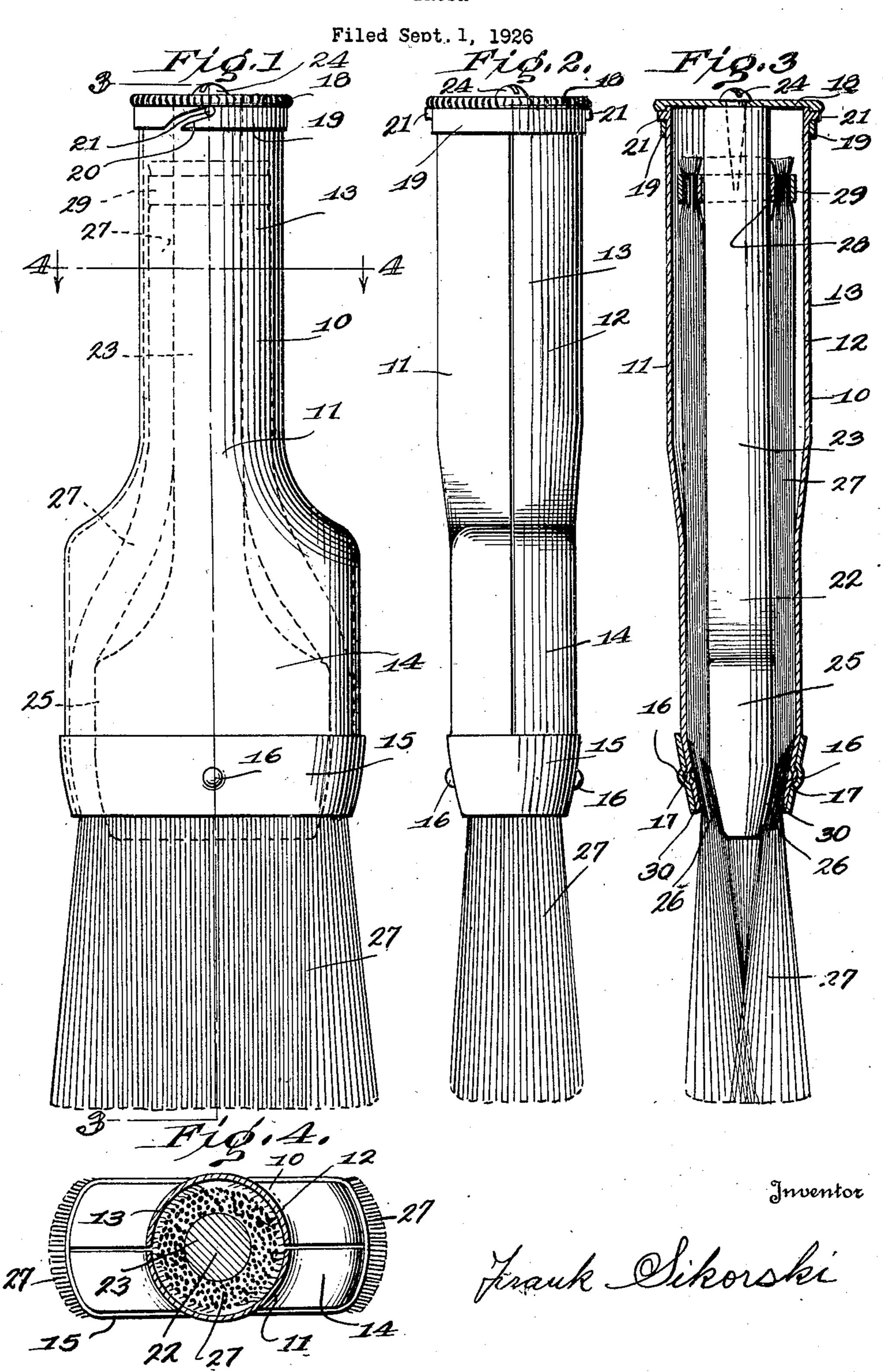
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BRUSH



UNITED STATES PATENT OFFICE.

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BRUSH.

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and aims to provide a novel and improved de- ing by having indentations 16 therein on opvice of this character which will permit convenient and efficient adjustment or replace-5 ment of bristles therein when the same have become worn or otherwise inefficient in use.

Another object of the invention is the provision of a handle housing having relatively long bristles arranged therein and extending 10 through one end of the same and a clamping member carried by the handle housing for engaging the bristles to hold the same in adjusted position against movement in the housing when the brush is in use.

15 It is also an object of the invention to provide a device of the above indicated character, which is simple and substantial in construction, which can be manufactured economical-

20 practical in use. With the foregoing and other objects in view, which will be apparent as the description proceeds, the invention resides in the construction and arrangement of parts, as 25 hereinafter described and claimed, it being understood that changes can be made within the scope of what is claimed, without departing from the spirit of the invention.

The invention is illustrated in the accom-

30 panying drawings, wherein:

Figure 1 is a side elevation of my improved brush, showing portions thereof in dotted lines,

Figure 2 is a side elevation looking at a 35 different side of the brush,

Figure 3 is a longitudinal section taken on line 3-3 of Figure 1, and

4—4 of Figure 1.

10 designates a handle housing constructed of the housing for adjusting the position of two sections 11 and 12 adapted to have the same within the housing so that the bristles edges thereof in engagement with each other will extend beyond the housing a sufficient 95 in order to provide a hand engaging cylindri- distance for permitting efficient operation of 45 cal portion 13 and an elongated flat portion the brush. The lower end of the elongated 14. The cylindrical hand engaging portion flat portion 14 of the housing is reduced in 13 is at one end of the housing while the size so as to provide inclined surfaces 30 adelongated flat portion 14 is at the opposite jacent the point where the tapered surfaces 100 end thereof. On the end of the housing and 26 of the wedge member are arranged so that 50 on the elongated flat portion 14 thereof a the bristles 27 will be firmly clamped beband 15 is arranged for holding one end of tween said tapered surfaces 26 and said ineach section 11 and 12 of the housing to- clined surfaces 30 for holding the bristles

The present invention relates to a brush gether. The band 15 is held upon the housposite sides thereof for permitting engage- 55 ment of small lugs 17 therein, said lugs 17 being provided on opposite sides of the housmg 10.

The upper ends of the sections 11 and 12 are held together by means of a cap 18 hav- 60 ing a depending flange 19 thereon provided with bayonet slots 20 therein into which oppositely arranged pins 21 carried by the sections 11 and 12 of the housing engage. By placing the cap 18 upon the cylindrical hand 65 engaging end of the housing and turning the same until the pins 21 engage in the bayonet slots 20, said cap will be held on the housing against accidental detachment. Carried by the cap 18 is a wedge member 22, said 70 ly, and which will be thoroughly efficient and wedge member 22 having a relatively long shank portion 23 which is attached to the cap 18 at its upper end by means of a wood screw 24, or the like, said wood screw permitting turning movement of the cap with 75 relation to the wedge member. The wedge member 22 is increased in width, as at 25, and is provided with tapered surfaces 26 on the opposite sides of said portion increased in width. Said portion increased in width is 80 received within the elongated flat portion 14 of the housing.

Arranged about the wedge shaped member 22 are brush bristles 27, the same being relatively long so that the lower ends thereof 85 protrude from the housing 10 while the upper ends thereof are arranged about the upper end of the shank 23 of the wedge member. The upper ends of the bristles are clamped Figure 4 is a cross section taken on line between a pair of ring members 28 and 29 for 90 holding all of the bristles together so that In carrying out the invention, the numeral said bristles may be moved longitudinally in

against longitudinal movement in the hous- rings 28 and 29 clamped to the upper ends 5 said bristles in engagement with the inclined surfaces 30 of the housing that the two sections of the housing will be held in tight engagement with the band 15 with the lugs 17 of said sections received in the indentations 10 16 of the band, thus preventing movement. of the band on the housing and spreading movement of the sections 11 and 12 away from each other.

When the ends of the bristles 27 become 15 worn and the bristles do not extend a sufficient distance from the housing to permit efficient use of the brush, the cap 18 is turned so as to disengage the pins 21 from the bayonet slots 18 in the cap which will permit said cap to 20 be moved off of the ends of the two sections 11 and 12 of the handle housing. When the cap is moved from the handle housing, the wedge member 22 is also moved, thus relieving clamping engagement of the brush 25 bristles between the tapered surfaces 26 on said clamp member and the surfaces 30 of the housing. While the clamp member and cap are in such raised position, the bristles may be pulled upon or forced downwardly by inserting an instrument in the cylindrical portion of the housing and into engagement with the upper ends of the bristles. After the bristles have been moved so that the same extend the proper distance from the housing, 35 the cap is placed again on the end of the housing which will cause the wedge member to engage the bristles so as to hold the same in their newly adjusted position. As the cap is turned to permit the bayonet slots to engage 40 the pins 20, the wedge member will be forced into tighter engagement with the brush bristles. It is to be noted that the cap 18 is mounted upon the end of the shank 23 of the wedge member in such a manner that said 45 cap may be turned with relation to said wedge member. It is also to be noted that the brush bristles are held together by means of the rings 28 and 29 so that all of the bristles move together when adjusting the position thereof, and that the inner ring 28 is of a size so that the same is slidably mounted upon the cylindrical shank portion 23 of the wedge member, thus causing the bristles to be fed evenly through the housing and in uniform 55 formation.

an extent that the same cannot be adjusted further for increasing the length of the porbristles may be positioned in the housing so said brush bristles so that said brush bristles 125 placing a new set of bristles in the brush, ing against longitudinal movement. said bristles are arranged evenly about the 5. A brush comprising a housing, a wedge

ing during use of the brush. It can be seen of the bristles after said bristles have been that when the wedge member 22 is forced arranged in such position. After said rings down between the bristles so as to firmly press 28 and 29 firmly engage the upper ends of the bristles, the lower ends thereof may be 70 trimmed so as to render the brush efficient in use.

> Having thus described my invention, what I claim as new is:

1. A brush comprising a handle housing, a 75 clamp member arranged in said housing, brush bristles slidably positioned on said clamp member and received in said housing, said housing having one end thereof reduced in size so as to provide tapered surfaces, and 80 means for holding said clamp member in position to clamp the bristles between the same and said tapered surfaces.

2. A brush comprising a housing, said housing being constructed of a pair of sec- 85 tions having the edges thereof in engagement with each other, said housing having a cylindrical hand engaging portion and an elongated flat portion, a band arranged about the lower ends of said flat elongated portion 90 for holding the two sections together, a cap arranged upon the upper end of said housing for holding the two sections together, brush bristles arranged in the housing, and a clamping member carried by said cap for holding 95 said brush bristles in adjusted position against longitudinal movement in the hous-

3. A brush comprising a housing constructed of a pair of sections with the edges 100 thereof in engagement with each other, said housing having a cylindrical portion and an elongated flat portion, a band arranged about said elongated flat portion for holding the two sections together, brush bristles arranged 105 in said housing, and a clamping member engaging said brush bristles for forcing the same in tight engagement with the two sections of the housing at a point where said band is provided so as to hold said brush 110 bristles in adjusted position against longitudinal movement in the housing.

4. A brush comprising a housing, a wedge member arranged in the housing, a shank carried by said wedge member and extending 115 through the housing, brush bristles arranged about said wedge member and said shank and positioned in the housing, said brush bristles also extending through one end of the housing, a pair of clamping rings carried by the 120 After the bristles have become worn to such upper ends of said brush bristles one within another, said inner ring being slidably arranged upon said shank, and means for holdtions of the bristles to be used, a new set of ing said tapered portion in engagement with as to extend the life of the brush. When will be held in adjusted position in the hous-

wedge member 22 when said wedge member member arranged in said housing adjacent is in raised position in the housing and the one end thereof, a shank carried by said 130 wedge member and extending through the housing, a pair of ring members slidably arment with said bristles so that said bristles ranged upon said shank, brush bristles carried by said ring members and arranged about said shank and tapered member and In testimony whereof, I have affixed my positioned within said housing, and means signature. carried by said shank for engaging said hous-

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