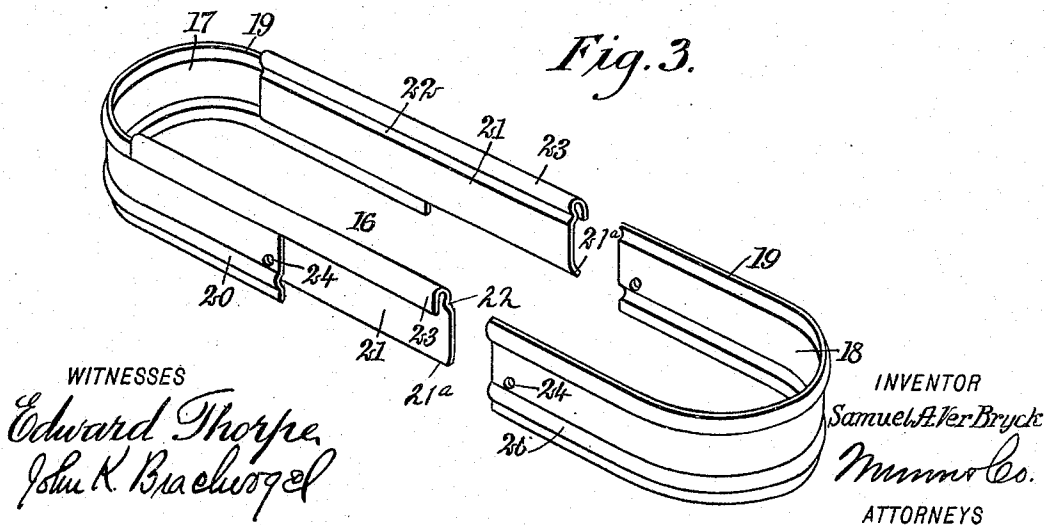
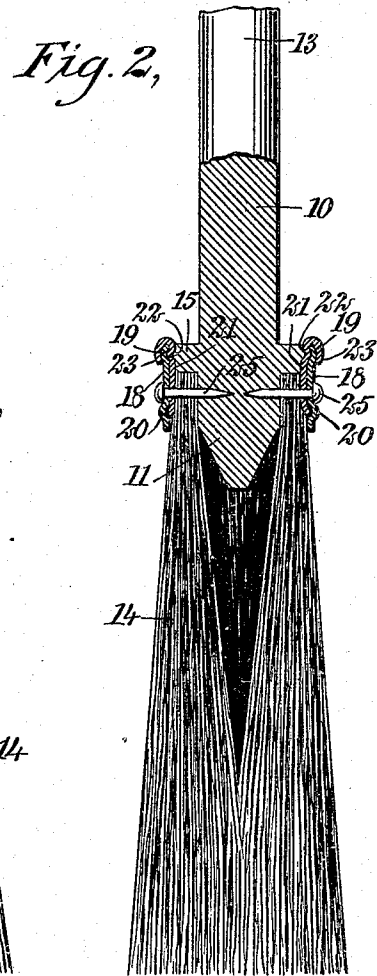
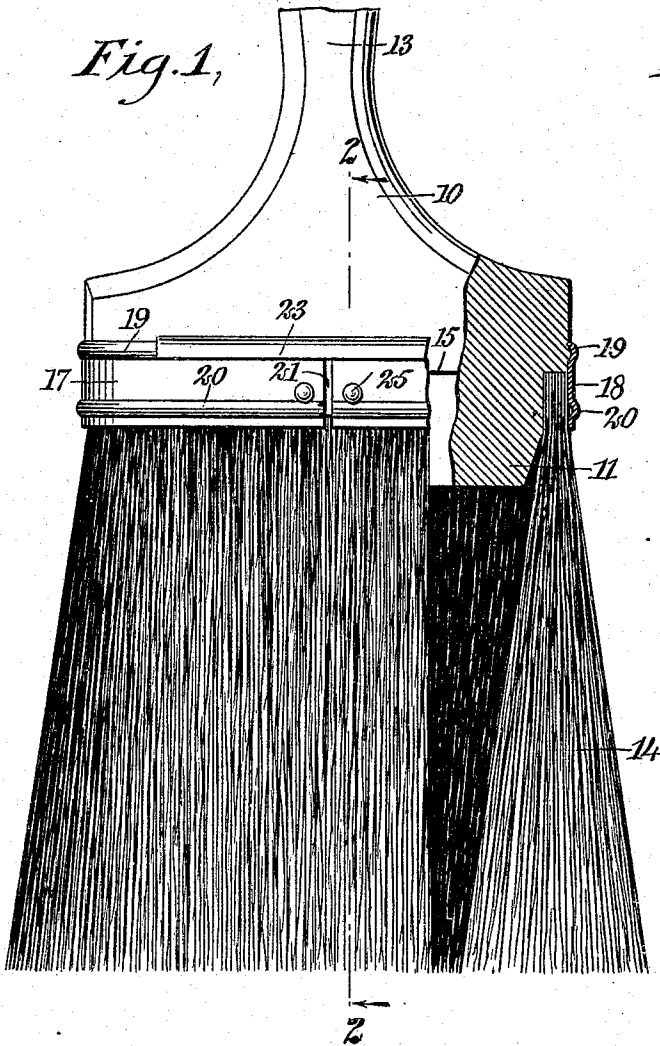


S. A. VER BRYCK.
BRUSH.

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930,816.

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UNITED STATES PATENT OFFICE.

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BRUSH.

No. 930,816.

Specification of Letters Patent.

Patented Aug. 10, 1909.

Application filed November 14, 1908. Serial No. 462,585.

To all whom it may concern:

Be it known that I, SAMUEL A. VER BRYCK, a citizen of the United States, and a resident of Belleville, in the county of Essex and State of New Jersey, have invented a new and Improved Brush, of which the following is a full, clear, and exact description.

This invention relates to brushes for painting and like purposes, and more particularly to a brush having a head, bristles arranged about the head, and a ferrule encompassing the bristles and the head, and consisting of two parts adapted to be forced together under pressure, whereby the ferrule is compressed about the head and has a corrugated edge partly embedded in the head by pressure so that it is securely attached to the head, the parts of the ferrule being arranged to telescope and having guards which, when the ferrule is being compressed, serve to hold the bristles in place.

The object of the invention is to provide a simple, inexpensive and exceedingly durable brush such as a paint brush or the like, in which the bristles are securely attached to the head of the brush, in which the ferrule holding the bristles in position is compressed and partly embedded in the head to hold it in place, in which a comparatively small head can be employed for holding a large quantity of bristles, and in which the necessity of extensively nailing or otherwise securing the ferrule to the head is obviated.

The invention consists in the construction and combination of parts to be more fully described hereinafter and particularly set forth in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views, and in which—

Figure 1 is a side elevation of an embodiment of my invention showing parts broken away and parts in cross section; Fig. 2 is a longitudinal section on the line 2—2 of Fig. 1; and Fig. 3 is an enlarged perspective view of the ferrule or bristle-securing band of the brush showing the parts of the ferrule separated.

Before proceeding to a more detailed explanation of my invention, it should be clearly understood that while the same is particularly useful as an improvement in flat

paint brushes, it can be advantageously employed in connection with other similar devices in which bristles are secured upon a brush head by means of a retaining ferrule, provided the brush is of such shape that the parts of the ferrule can be arranged to slide telescopically with respect to each other. By employing a ferrule which is compressed about the head and the bristles it is possible not only to secure the bristles more firmly in place, but to cause the ferrule itself to attach to the head by forcing corrugated edges or the like of the ferrule into the wood or similar material from which the head is fashioned, thereby obviating the employment of a large number of nails or the like for fastening the ferrule in place. Needless to say, a brush of any description in which the bristles are so loosely secured that they are apt to become dislodged, is practically worthless and my invention presents obvious advantages in that it insures the firm attachment of the bristles to the head of the brush. I prefer to employ a ferrule which has a substantial thickness so that it can properly withstand the pressure used in mounting it upon the head. The ferrule can be fashioned from heavy stamped metal or even, if so desired, from cast metal.

Certain of the details of construction shown for example herewith, form no part of the invention and can be varied without departing from the underlying spirit of the invention, which consists in the provision of the ferrule or band having a male and female member arranged to telescope and to be compressed about the head, so that parts of the band are forced into the head to hold it in place, one of the band members having guards along which the other band member slides during compression, to hold the bristles of the brush in place.

Referring more particularly to the drawings, I provide a head fashioned from wood or other material adapted for the purpose and of any suitable form. In the type illustrated, the head is that of the ordinary flat paint brush and it has a constricted lower part 11, and a handle 13 by means of which the brush can be manipulated. The bristles 14 are arranged about the constricted part 11, having their upper ends abutting against a ledge 15 extending around the head and formed by the constricted part.

The ferrule or band 16 comprises a female member 17 curved in conformity to the shape of the head and forming, with the male member 18 a substantially oval ferrule, conforming to the shape of the head. The members 17 and 18 are provided with outwardly concave offsets or corrugations 19 at the upper edges. Near the lower edges, but separated therefrom, the members have further similar corrugations 20.

The female member 17, at the ends has guards 21 arranged at the inside thereof and projecting beyond the ends. The guards may be fashioned in any suitable manner. Each guard has a corrugation 22 corresponding to the corrugation 19 of the member 17, and has the upper edges outwardly bent upon itself to form an undercut flange 23 arranged to receive the corrugation 19 of the male member 18 and overlapping the corrugation 22.

In fashioning the brush according to my invention, the bristles are assembled upon the head and are glued or otherwise attached thereto, to assist in securing them in place. The ferrule is then placed about the head, the male and female members being arranged to telescope and the brush is then inserted in a suitable machine by means of which the parts of the brush are forced together under pressure. It will be understood that the male member slides along the guards 21, the corrugation 19 moving under the flange 23, and in engagement with the corrugation 22 until the ends of the band members are in juxtaposition. The pressure brought to bear upon the ferrule members forces them firmly against the bristles and at the same time drives the corrugations 19 into the wood or other material of the head. Each band member, near the ends has openings 24 therethrough to permit nails 25 or the like to be driven into the head to assist in holding the telescoped parts in place.

The corrugations 20 are arranged to receive the outwardly disposed lower edges 21^a of the guards 21 and thus also act as guides in telescoping the parts.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent:

1. A brush, comprising a head, bristles mounted upon said head, and a ferrule consisting of separable parts and encompassing said head and said bristles, said ferrule being compressed about said head and having corrugations engaging the same and adapted to be partly embedded in said head, one of said parts having guards constituting guides for the other of said parts.

2. A brush, comprising a head, bristles arranged about said head, and a ferrule encompassing said bristles and said head and consisting of a plurality of parts adapted to be forced together, whereby said ferrule is com-

pressed about said head, said parts having guards constituting guides when said ferrule is being compressed.

3. A brush, comprising a head, bristles arranged about said head, and a ferrule encompassing said bristles and said head and engaging both of the same, said ferrule comprising telescopic members arranged to be forced together under pressure, one of said members having projecting guards guidingly holding the other of said members.

4. A brush comprising a head, bristles arranged about said head, and a ferrule encompassing said bristles and said head, said ferrule consisting of telescopic members guidingly engaging each other and having offset edges adapted to be forced into said head, one of said members having guards guidingly receiving the other of said members when said members are being telescoped.

5. A brush comprising a head having a constricted part, bristles arranged around said constricted part, a ferrule encompassing said head and said bristles and comprising a female member and a male member adapted to telescope, one of said members having guards projecting beyond the ends thereof, said guards having undercut flanges, said members having corrugations, said corrugation of one of said members being guidingly received by said flanges of said guards, said members being adapted to be compressed whereby said corrugations are caused partly to embed in said head, said members having openings therethrough, and nails in said openings and driven into said head.

6. In a brush, a ferrule comprising a female member and a male member having corrugations at the upper edges, guards at the inside of said female member and projecting beyond the ends thereof, said guards having corrugations adapted guidingly to receive said corrugations of said male member, and further having outwardly disposed flanges extending over said corrugations of said male member when said members are telescoped, said male member having a further corrugation adapted to receive the edges of said guards remote from said flanges.

7. In a brush, a ferrule comprising a male member and a female member, said members at the upper edges having corrugations, and near the lower edges further corrugations, said female member having at the inside guards extending beyond the ends of said member and provided with corrugations adapted guidingly to receive said corrugations of said male member, said guards having the upper edges bent upon themselves to form undercut flanges adapted guidingly to receive said corrugations of said male member and extending over said corrugations of said guards, said guards hav-

ing the lower edges outwardly disposed and
extending into said further corrugation of
said female member and adapted guidingly
to engage said further corrugation of said
5 male member, said members having open-
ings therethrough adapted to receive nails
to be driven into the head of the brush.

In testimony whereof I have signed my
name to this specification in the presence of
two subscribing witnesses.

SAMUEL ALBERT VER BRYCK.

Witnesses:

C. LOUIS LEVY,
ERNEST B. WRIGHT.