Oct. 18, 1927. 1,646,182

S. BECK

PAINTBRUSH

Filed Sept. 20. 1926

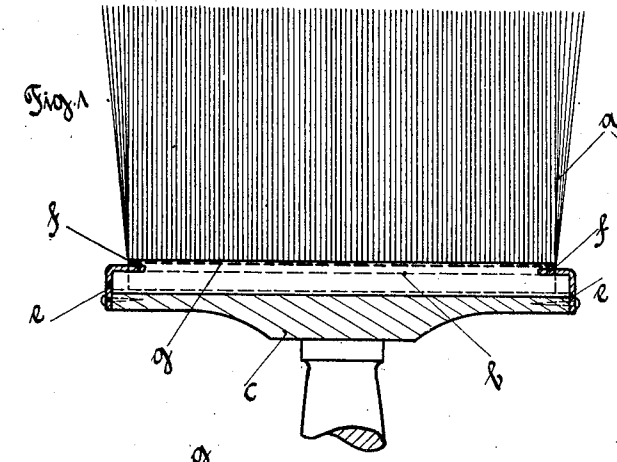


Fig. 1

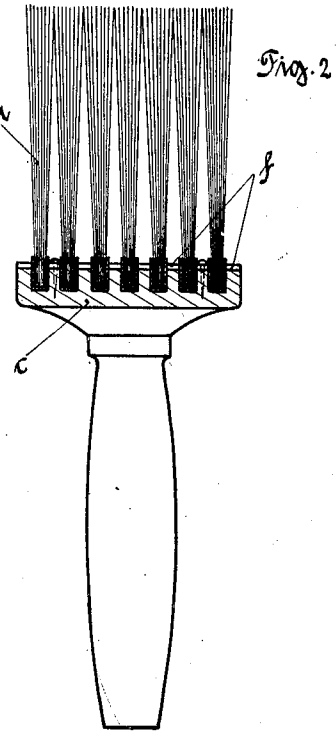


Fig. 2

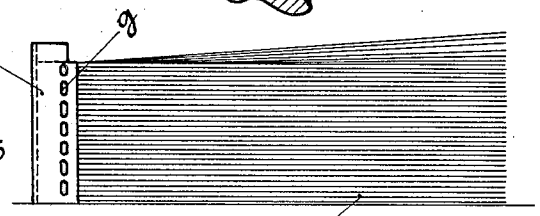


Fig. 6

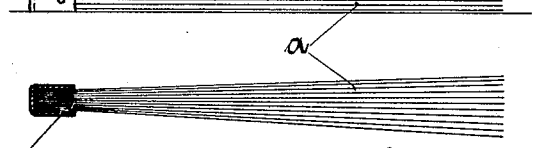


Fig. 7

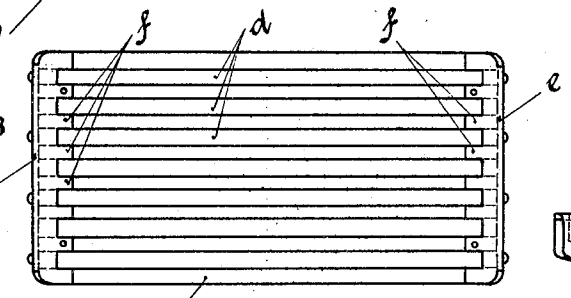


Fig. 3

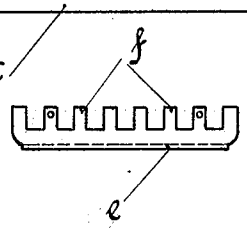


Fig. 5

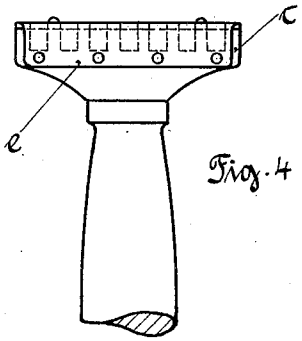


Fig. 4

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UNITED STATES PATENT OFFICE.

SIGMUND BECK, OF NUREMBERG, GERMANY.

PAINTBRUSH.

Application filed September 20, 1926, Serial No. 136,543, and in Germany April 21, 1926.

Paint-brushes have been made in such a manner that into a brush head of wood, provided with bores, single bristle-tufts are inserted and fastened in said bores by means of pitch, wire or similar fastening means, the projecting ends of the bristles being disposed closely with respect to each other in order to provide a continuous bristle surface. In another form of construction the bristles are placed between wooden strips which are inserted into recesses of the brush back or head and are glued and nailed to the latter.

The present invention relates to an improved paint-brush, the construction of which differs from prior brushes in that channeled metal bristle-carrying frames are held and secured immovably in the brush back by means of comb-shaped projections upon retaining members provided at the ends of the brush back, said comb-shaped projections being adapted to extend between and over said metal bristle-carrying frames.

In the accompanying drawing, in which one form of embodiment of my improved paint-brush is illustrated,

Fig. 1 is a longitudinal section of the same.

Fig. 2 is a cross-section through the brush.

Fig. 3 is a plan view of the brush head with the metal bristle-carrying frames removed.

Fig. 4 is a front view of the brush head.

Fig. 5 is a plan view of one of the retaining members.

Figs. 6 and 7 show in side view and cross-section the manner of securing the bristles in a metal frame.

As it may be seen from the drawing the bristle rows *a* are secured in the channeled metal frames *b* by pressing the sides of the frames in clamping engagement therewith and adding a suitable binding means, such as glue, cement, or the like, the metal frames being provided with continuous or interrupted indentations *g* forming spurs or like retaining projections to engage and securely hold the bristles. For the reception of the metal frames, which are reduced in depth to form flanges at both ends, the brush back *c* is provided with continuous channels or grooves *d*, which are closed at both ends of the brush head by castellated or comb-shaped retaining plates *e*. The comb-shaped projections of these plates *e* extend between and over the reduced ends of the series of bristle-carrying frames *b*, whereby a displacement of the bristle-carrying frames in any direction is rendered impossible. The plates *e* are secured to the brush head by means of a suitable number of pins or rivets. My improved paint-brush thus combines, with a simple manner of manufacture, the advantage that a thoroughly secure fastening of the bristle rows *a* in the brush head *c* is ensured.

I claim:

1. A paint-brush comprising, in combination, a brush back provided with a plurality of parallel grooves in one face, a plurality of metal bristle-carrying frames secured in said grooves of the brush back, and retaining members engaging the ends of the brush back and having comb-shaped projections at right angles thereto extending between and over said metal frames and securing the same immovably in the brush back.

2. A paint-brush comprising, in combination, a brush back provided with a plurality of parallel grooves in one face, a plurality of metal bristle-carrying frames secured in said grooves of the brush back and having flanges at their ends, and retaining plates secured to the ends of the brush back and having comb-shaped projections extending between and over said metal frames and securing the same immovably in the brush back.

3. A paint-brush comprising, in combination, a brush back provided with a plurality of parallel grooves in one face, a plurality of metal bristle-carrying frames secured in said grooves of the brush back, retaining projections pressed inwardly from the sides of said bristle-carrying frames, and bristles in said bristle-carrying frames and retaining members engaging the ends of the series of bristle-carrying frames and having comb-shaped projections extending between and over said bristle-carrying frames and securing the same immovably in the brush back.

In testimony whereof I affix my signature.

SIGMUND BECK.