

No. 884,276.

PATENTED APR. 7, 1908.

A. HERSCHMANN.
BRUSH.

APPLICATION FILED AUG. 10, 1907.

Fig. 1.

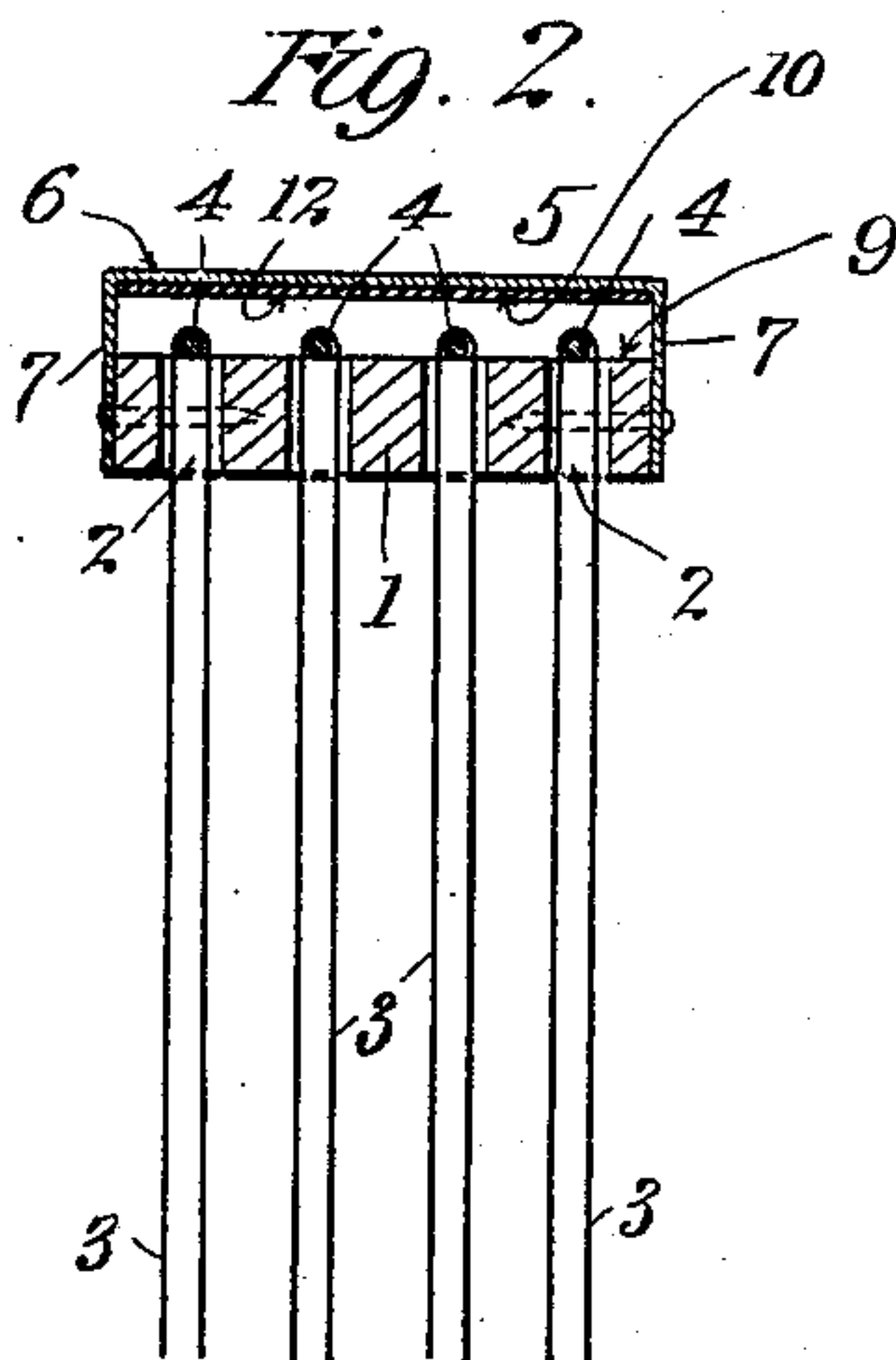
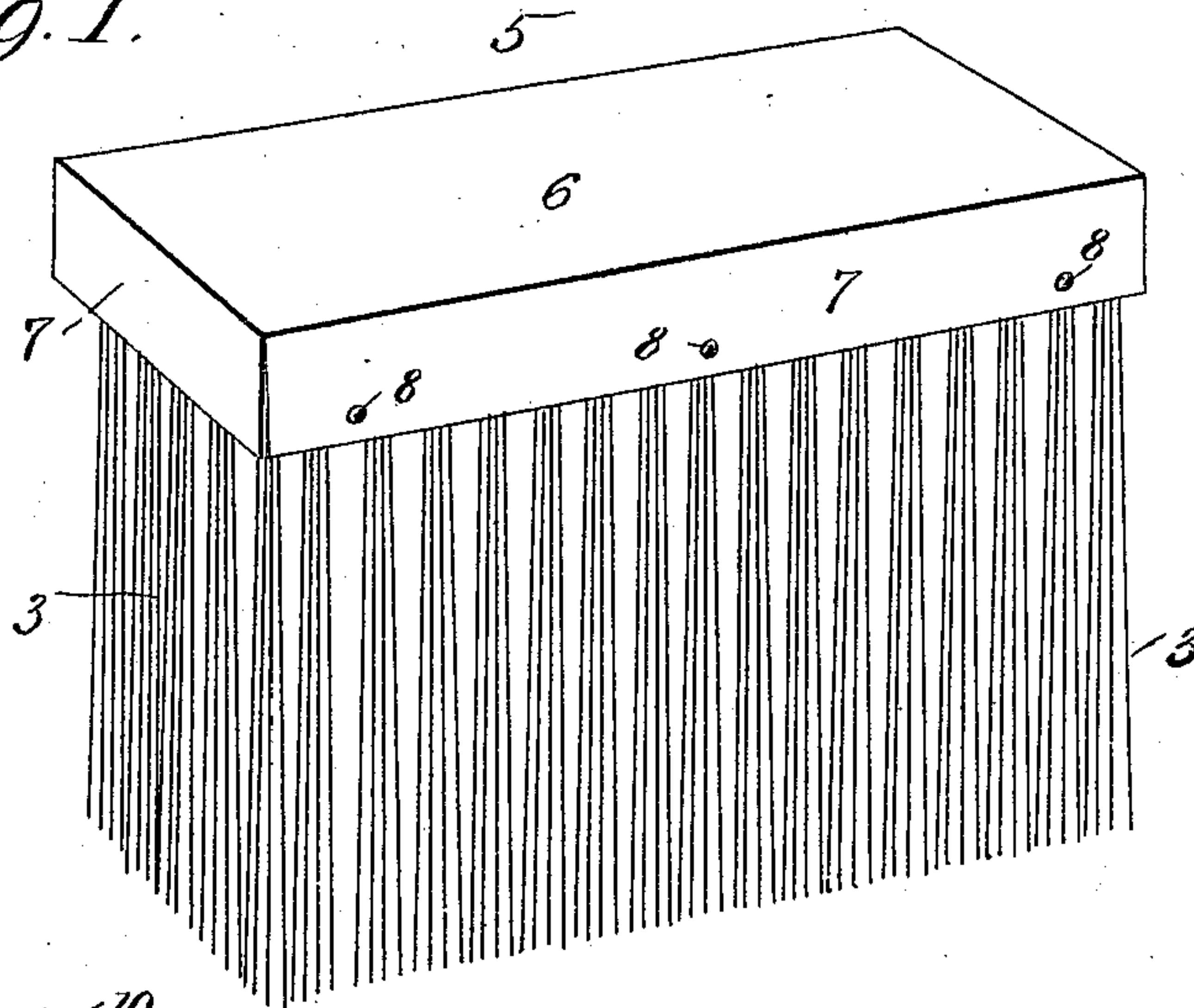


Fig. 4.

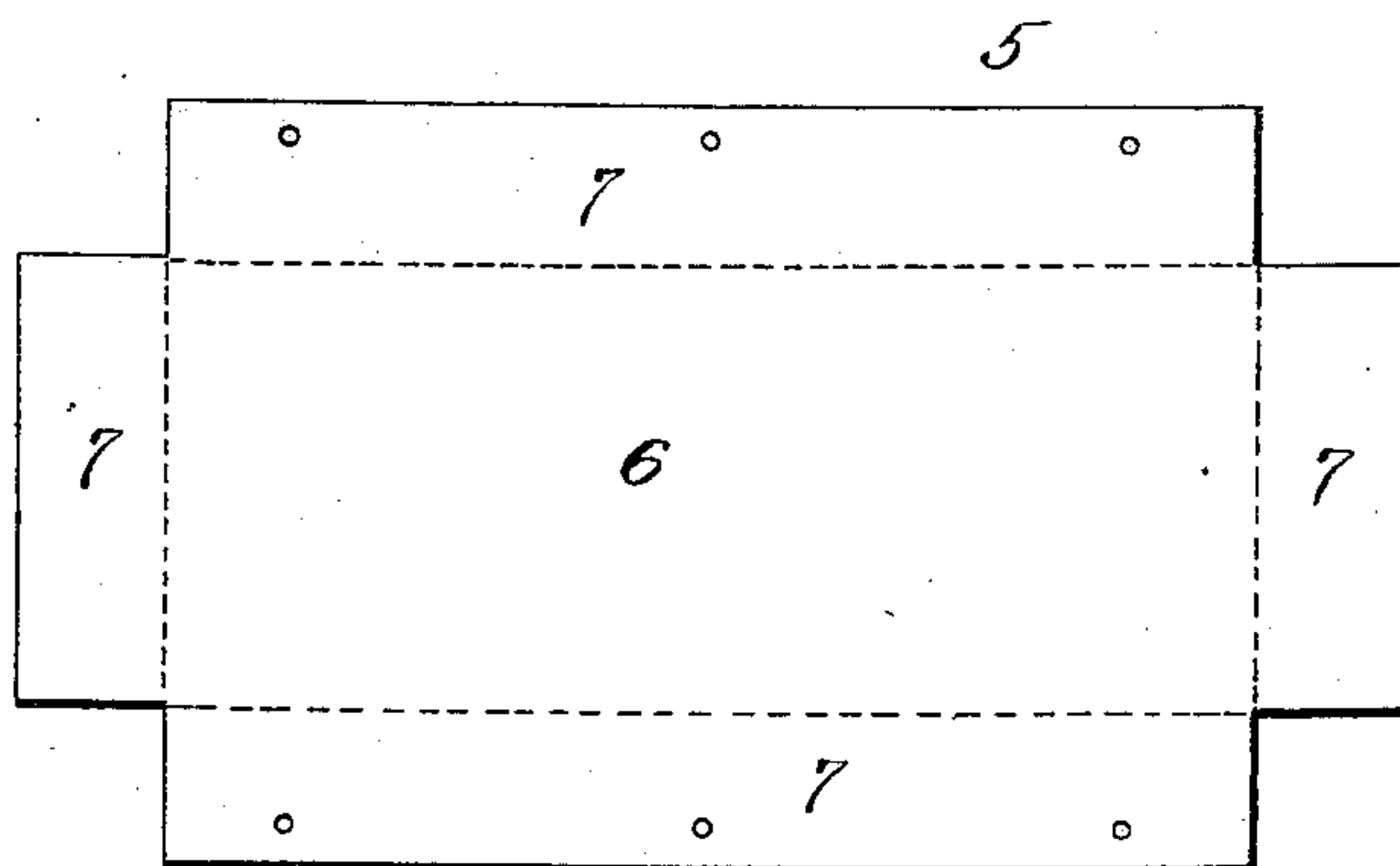


Fig. 3.

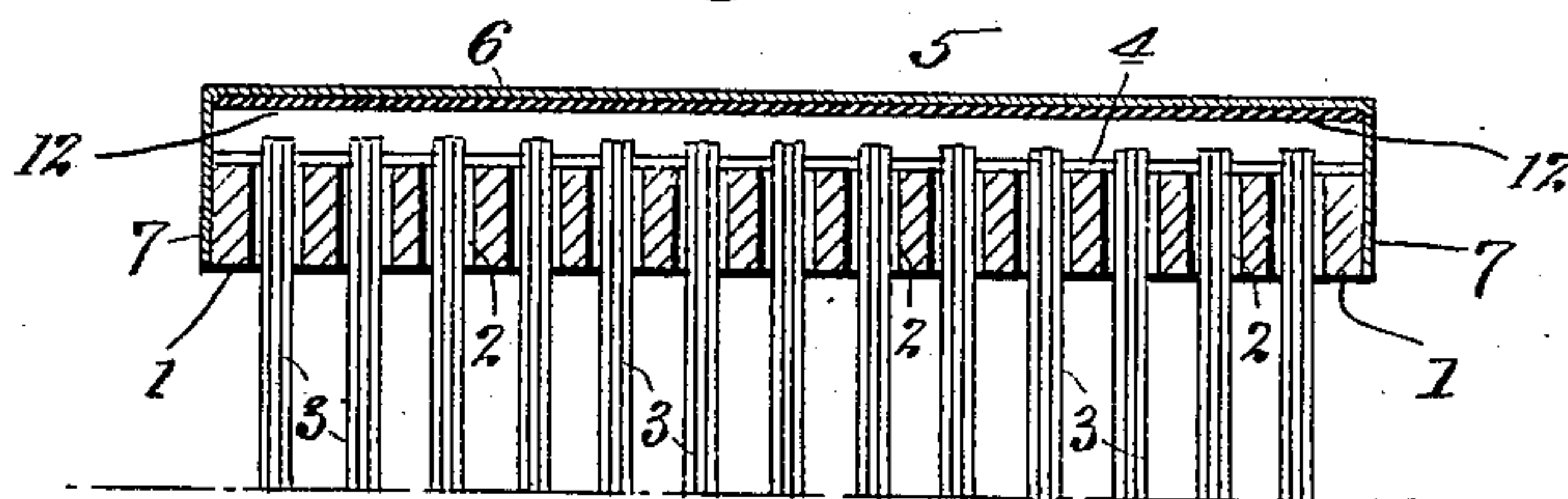
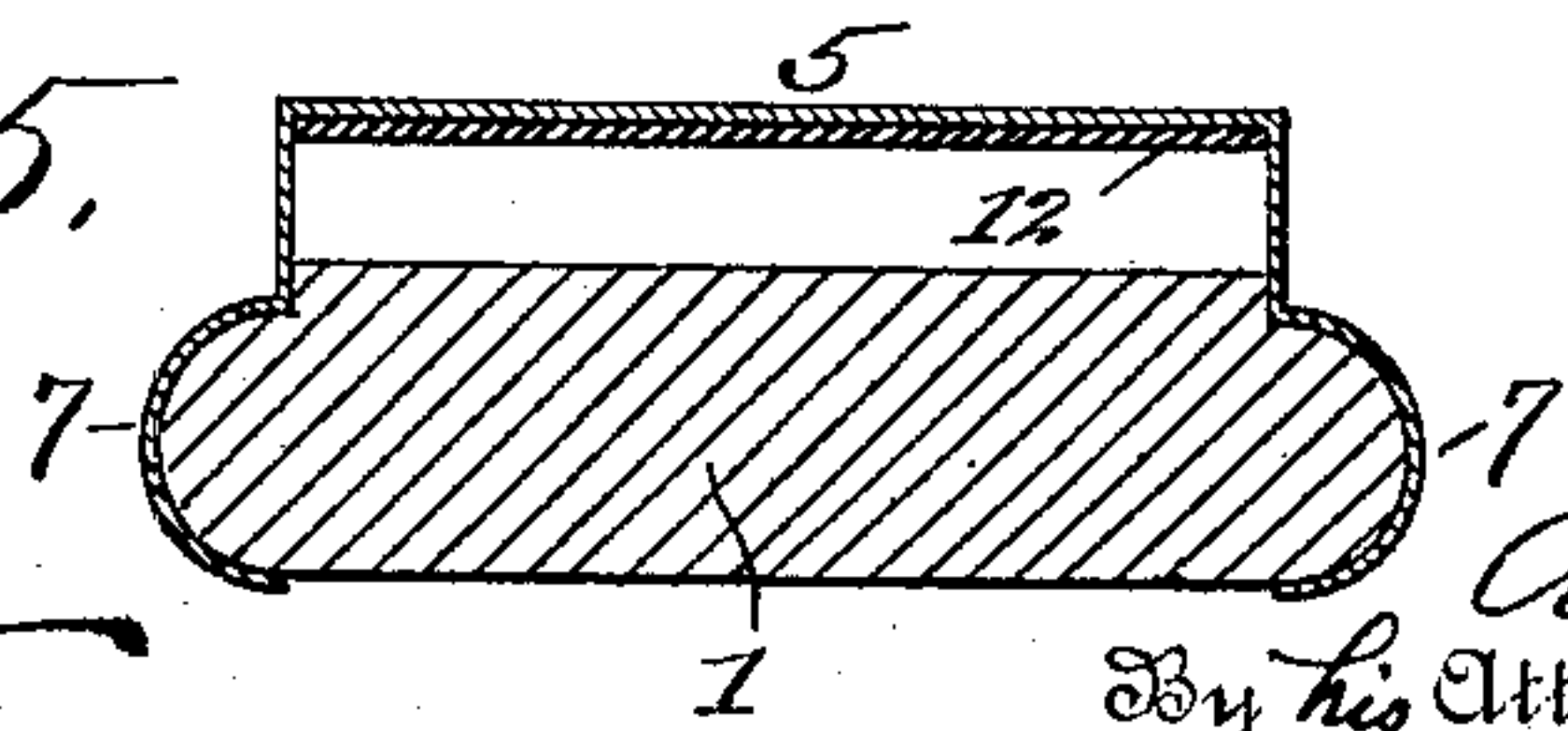


Fig. 5.



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UNITED STATES PATENT OFFICE.

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BRUSH.

No. 884,276.

Specification of Letters Patent.

Patented April 7, 1908.

Application filed August 10, 1907. Serial No. 387,965.

To all whom it may concern:

Be it known that I, ARTHUR HERSCHMANN, a subject of the Emperor of Austria-Hungary, and resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Brushes, of which the following is a specification.

My invention relates to that class of brushes in which bristles of steel or other very stiff material are employed.

In U. S. Patent to H. Pollmann, No. 795,062, July 18, 1905, there is disclosed a brush in which steel bristles are supported so as to be movable in all directions; a longitudinal movement being provided for by recessing the upper face of the body of the brush, so that a free space for the inner ends of the bundles of bristles is formed between said body and a cover which is nailed to the body, said nails extending in a direction parallel with the said bristles. The cover serves to limit the longitudinal movement of the bristles.

The objects of the present invention are first, to cheapen the cost of manufacture by omitting the recess and making the body of the brush out of a plain rectangular block of less thickness than is required by the Pollmann construction; and second, to strengthen and improve the construction and prolong the life of the article by substituting for the wooden cover one of metal stamped out of a single piece of sheet material and fastened to the block by nails driven horizontally into the same.

To these ends the invention consists in the structural details now to be fully described, reference being had to the accompanying drawing, in which

Figure 1 is a perspective view of a brush embodying my invention; Fig. 2 is a transverse section of the brush; Fig. 3 is a longitudinal section of the same; Fig. 4 is a plan view of a blank from which a cover is made; and Fig. 5 illustrates a modification.

Referring to the drawings by numerals 1 represents a rectangular body of wood having rows of perforations therethrough for the reception of bundles of bristles 3.

The perforations are indicated by 2.

The bristles, as shown, are constructed and supported similarly to those in the Pollmann patent before referred to, that is to say they are strung upon or looped over supporting wires 4 which lie in parallel rows along the

back of the body 1. But I do not limit myself to this particular means for supporting the bristles since my invention applies to any brush wherein the bristles are longitudinally movable within perforations in the body of the brush, irrespective of the manner of supporting said bristles.

It will be observed that there is no recess in the body 1 and that the wires 4 lie flat upon the upper surface thereof and support the bundles of bristles 3 so that the inner ends of the bristles stand higher than the plane of said body. In lieu of a recess the cover, 5, is supported in a position spaced apart from the body of the brush. This cover which is preferably a single piece of stamped metal, comprises a flat plate 6, corresponding in size and shape to the upper surface of the body 1, and integrally formed side and end flanges 7, projecting angularly from said plate; there being holes in the flanges for the reception of nails 8, by means of which the cover may be fastened to the body 1.

The flanges 7, are somewhat deeper than the thickness of the body 1, so that when the cover is applied to the body in the manner illustrated in the drawings, with the lower edges of the flanges flush with the lower edges of the body 1, there will be a free space between the upper surface 9, of the body and the inner surface 10, of the plate 6.

Comparatively light and small nails may be safely used to retain the cover in place, inasmuch as the back thrust of the bristles will have a shearing effect on said nails rather than a direct pull. In some cases it may be found desirable to dispense with nails or screws altogether. This may be done by giving the sides of the body some irregular shape and then springing the cover over the same, or sliding it on from one end. Such a construction is indicated in Fig. 5.

In order to insulate the bristles from the metal cover to avoid the crystallizing effect of hammer blows and to reduce the rattling sound of metal against metal, I lay a strip of fiber, wood, paper or other comparatively soft material within the cover in the manner indicated by 12.

Having described my invention I claim:

1. In a brush the combination of a perforated body portion, bristles supported in the perforations in said body portion and longitudinally movable therein, a cover of sheet metal for limiting the longitudinal movement of said bristles, said cover com-

prising a plate spaced apart from said body portion and having flanges projecting angularly therefrom and embracing the sides of said body portion, and means for fastening
5 said flanges to said body portion.

2. In a brush the combination of a perforated body portion, bristles supported in the perforations in said body portion and longitudinally movable therein, a cover of
10 sheet metal adapted to limit the longitudinal movement of said bristles, said cover com-

prising a plate spaced apart from said body portion, means for retaining said cover in place, and a non-metallic lining for said cover.

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Signed at New York in the county of New York and State of New York this 8th day of July A. D. 1907.

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