

J. F. FURTER.  
HORSE BRUSHES.

No. 183,758.

Patented Oct. 31, 1876.

FIG. 1.

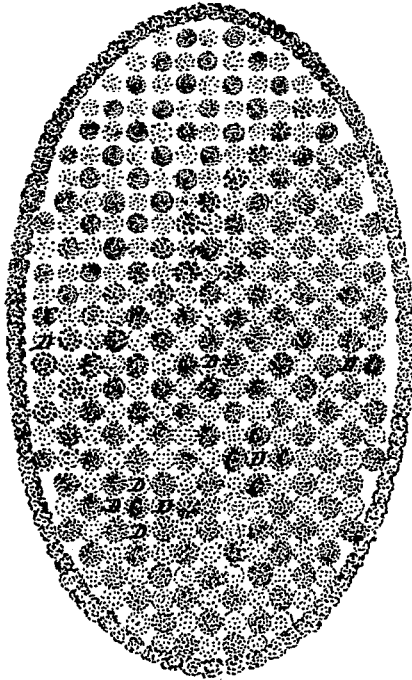
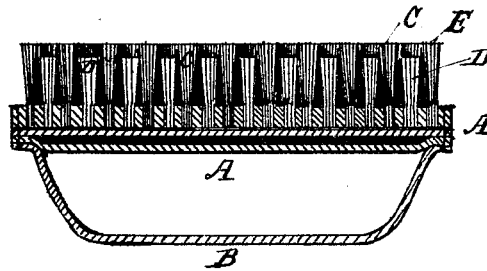


FIG. 2.



Witnesses  
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# UNITED STATES PATENT OFFICE.

JOSEF F. FURTER, OF CHICAGO, ILLINOIS.

## IMPROVEMENT IN HORSE-BRUSHES.

Specification forming part of Letters Patent No. **183,758**, dated October 31, 1876; application filed August 3, 1876.

*To all whom it may concern:*

Be it known that I, JOSEF F. FURTER, of the city of Chicago, in the county of Cook and State of Illinois, have invented certain Improvements in Horse-Brushes, of which the following is a specification:

The invention consists, first, in making the brush of tufts of different lengths, one-half or thereabout being shorter than the other half, and the different lengths being evenly distributed over the surface of the brush; second, in making the longer tufts in a brush constructed as just described of stiffer and firmer bristles than those used in the shorter tufts; and, third, in surrounding the brush made of unequal length tufts evenly distributed, with a border of bristles as long as the longest of those used in the center.

In the accompanying drawing, which forms a part of this specification, Figure 1 is a face view, and Fig. 2 a transverse section, of a horse-brush embodying my invention.

Like letters of reference used in said figures indicate like parts.

In said drawing, A represents the back of my improved brush, and B the hand-strap thereof, while the tufts are designated, respectively, the longer by C, and the shorter by D. The longer bristles are stiffer than the short ones. These tufts or bunches are so placed or distributed that the long and short tufts shall alternate over the entire surface of the brush—that is to say, a short one is placed between each two of the longer ones, and vice versa, counting both ways. In other words, the tufts are so distributed that each short one is in the center of a square formed by four long ones, and each long one in the centre of a square formed by four short ones, and equal

numbers of each kind are used. In this way the rubbing face of the brush is made to present alternate points and depressions.

The object of this construction is to afford hollows or points of lodgment wherein the matter loosened by the longer bristles may lie and be carried by the brush in its movement, and thus removed. This result does not follow from the ordinary construction, which permits the loosened matter to remain in the hair of the animal, except such portions as are caught upon the ends of the bristles. Another object is that the shorter bristles D may catch such particles as lie upon the surface of the hair, brushing off the said surface, while the longer and stiffer bristles C penetrate to the hide, and scratch loose the dandruff and scurf.

The object of having a continuous outer row of long bristles, as at E, is to prevent the escape of any dirt from the rear edge of the brush as it moves, and to carry the dirt along better both in front and under the brush.

Having thus fully described my invention, that which I claim as new, and desire to secure by Letters Patent, is—

1. The horse-brush having an interior surface of short bristles and an exterior row of longer bristles extending entirely around the edges of the brush, substantially as specified.

2. The horse-brush having the long and short bristles inside, arranged in alternate tufts, and surrounded at the outer edge by a continuous row of long bristles, substantially as specified.

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Witnesses:

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