(No Model.)

H. L. BARNEY.

HORSE BRUSH.

No. 521,078. Patented June 5. 1894.

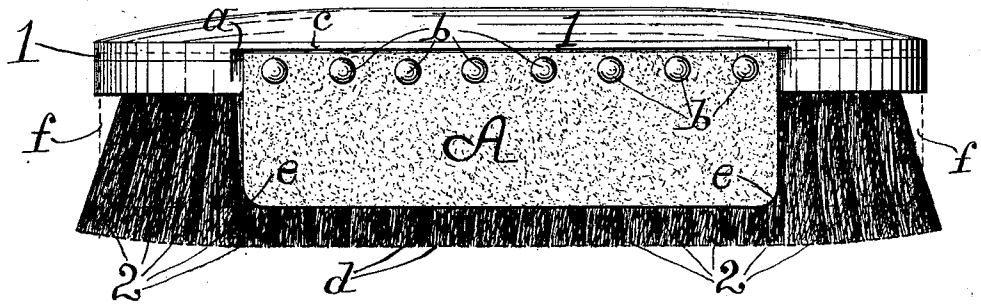

FIG-1-

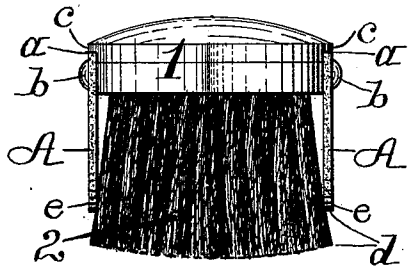

FIG-2-

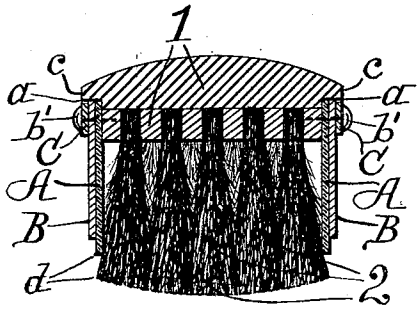

FIG-4-

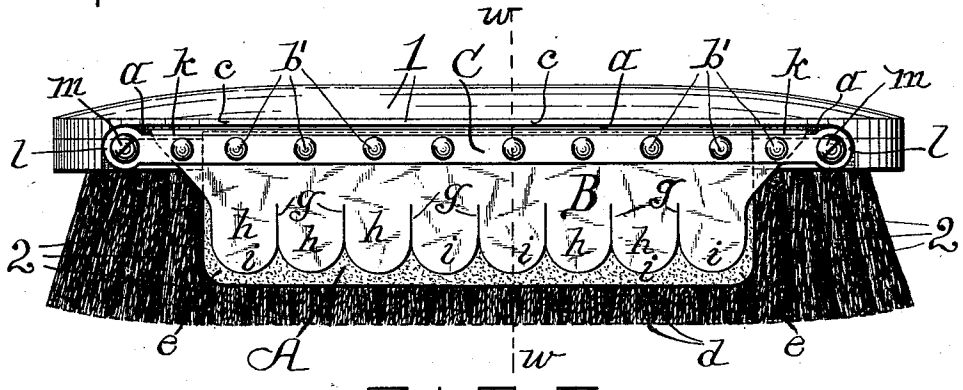

FIG-3-

ATTEST-

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HORSE-BRUSH.

SPECIFICATION forming part of Letters Patent No. 521,078, dated June 5, 1894.

Application filed October 13, 1893. Serial No. 488,102. (No model.)

To all whom it may concern:

Be it known that I, HEMAN L. BARNEY, a citizen of the United States, residing at Henderson, in the county of Jefferson and State of New York, have invented a certain new and useful Improvement in Horse-Brushes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of my improved horse-brush; Fig. 2 an end elevation thereof; Fig. 3 an elevation, in side plan, of a modified construction of my brush; and Fig. 4 is a transverse vertical section of said modified formation, taken upon dotted line *w*, *w*, Fig. 3, of the drawings.

Like letters and figures of reference denote corresponding parts throughout the several views.

My invention relates broadly to that species of devices calculated for the cleaning or currying of the hairy hide or coat of horses or other domesticated animals; while specifically it has reference to brushes provided with a suitable back and bristles adapted to clean or curry the hairy coat or covering of a horse, or other animal whereto brushes of such character are applicable.

The purpose, or prime object of my invention is, the production of a durable and effective currying brush for horses and other animals—horses particularly,—wherein owing to the peculiar construction of my brush it insures thorough cleaning or currying of the hairy covering or coat of the animal consequent upon the operating of the brush and the drawing of the bristles thereof over the animal's body, but correspondingly retaining comparatively clean the bristles, and practical immunity thereof from any appreciable amount of hairs or dust, &c., insured.

For the attainment of the co-ordinate objects sought by the evolution of my invention, said invention consists in the novel features of construction, combination, co-adaptation and operation hereinafter described, and specifically enumerated in the clauses of claim hereunto annexed.

It is constructed as follows:

1 denotes the back of my improved horse-brush, which back is formed of wood or other suitable material; and 2 denotes the bristles, arranged in tufts or otherwise and secured at their upper compressed portions in orifices formed in the underlying section of the back 1 in the usual manner.

A A are pendent vertically disposed side-flaps (or side pieces) located at either side of the brush body, and fitting at their upper edge portions into longitudinal recesses or mortises *a*, *a* formed in the vertical sides of the brush's back 1 longitudinally therewith and slightly below the upper boundary edges of the back, which recessed parts *a*, *a*, occupy at either side of the back 1 a major portion of its length and terminating, at corresponding points, a comparatively brief distance from the pointed or rounded extremities of the back formation aforesaid.

The down-standing side-flaps A A are respectively secured at their upper portions to the sides of the back 1 by suitable nails or tacks *b* penetrating the flaps or side-pieces contiguous their upper straight edge and passing firmly into the adjacent sides of the brush back, and whereby the flaps are securely retained in position.

c, *c*, are ledges or flanges above the side-flaps created by the receding or cut-away portions *a a* afore-described, and, the upper portions of the flaps fitting in said recessed portions the outer faces of said flaps lie pendent vertically flush with the side beads of the brush's back or practically so, and no non-desirable projection thereof thus existing. These side-flaps or pieces A A are, flatwise, of rectangular contour, the length thereof by preference being treble or more their height, and their horizontally straight bottom edges terminating within a brief distance (say one quarter or three-eighths of an inch) of the bottom of the aggregated bristles 2. Moreover the lower straight edge of the respective side-pieces or flaps A A lies on a horizontal plane parallel to that whereat the ends of the major portion of the aggregated bristles terminate, as indicated at *d*. By choice the lower end-corners *e e* of each flap are slightly rounded (or beveled) as illustrated, thereby obviating the liability of the corners becoming bent or broken, as might happen were the

corners to present abrupt points. The side-flaps are respectively formed of a sheet or strip of slightly yielding rubber, leather, felt or other substance possessing sufficient rigidity or stiffness conjointly with slight pliancy and resiliency or limberness.

I preferably utilize for the formation of the flaps or side pieces A A suitable sized sheets of elastic or slightly limber rubber (or even leather) as indicated by the delineation of the flap portions of my brush in the figures of the drawings.

While flaps of slightly flexible rubber (or leather) are by choice employed by me—as afore stated, yet, if so desired sheets of other satisfactory material or substance may, as is obvious, be utilized.

When so preferred, the side flaps A A may be formed of such length as to insure the same extending from end to end along the sides of the brush back 1, as indicated by dotted work *f*, Fig. 1; which extension of their length would insure their practically bounding throughout the bristle portion 2 of my device.

In the event of my employing quite thin and unusually flexible or yielding side-flaps, or flaps of some considerable thickness that are undesirably limber, or an auxiliary stiffness desirable to the ordinarily satisfactory flaps; the securing of greater stiffness or rigidity thereof being desirable or advantageous for the attainment of more satisfactory operation; I dispose guards or stiffening-strips B B against the outer face of the respective side-flaps A, the pressure or contact whereof serves to retain the underlying flaps in position against the transverse strain whereto they (at their lower portion) are more or less subjected in the operating of the brush; besides serving as a protector to the underlying flap.

At determined distances along the bottom edge of the respective guards or stiffeners B B vertical incisions *g* are made through them, said incisions extending parallel upward from the bottom edge thereof and terminating a medium distance above the said edge on a similar plane. The pendent sections created by the series of incisions form moderately flexible fingers *h*, that preferably are rounded at their ends, as at *i*; and all terminating on a like plane slightly above the contiguous straight bottom edge of the underneath side-flap.

The guard strips (or plates) B B extend upwardly the height of the underneath flaps or side pieces and at their upper portions lie within the recessed or cut-a-way portions *a* as do the rear standing flaps; and the upper end portions of the guards B B terminate in angular projections *k*, *k*, extending beyond the ends of the flaps A A, and lying in the mortised portions *a*, *a* of the brush back.

C, C, are horizontally disposed straps (or bars) standing longitudinally with the brush back 1, which respective straps (or fastening bars), perforated at brief intervals, are laid along the outer side of the guard-strips B bordering the guards' upper edge and are of such length as to continue slightly beyond the end projections *k k* of the guards B; the straps' ends terminating in broadened parts *l l*, suitably perforated, and *m*, *m*, are screws (or nails) that enter same and the underneath portions of the brush back; while *b' b'* are large-headed nails or tacks which entering the perforations of the straps C penetrate the back of the brush, the aforesaid firmly retaining the binding-straps C in place, and that impinging tightly against the beneath upper parts of the flap and guard insure thorough retention of same in proper position. The straps C lie underneath the ledges or beads *c* of the brush back throughout their length, whereby the outer faces thereof do not project beyond the sides proper of the back 1.

The guards B I preferably construct of stiff leather, although if desired raw-hide suitably prepared, or even metal may be utilized. The straps C may be of stiff leather, dry raw-hide, or metal, as preferred.

The purpose and function of the side-pieces or flaps A A is, to keep clean the bristles of the brush, and, correspondingly, the horse or other animal which is being curried; said flaps serving to prevent loose hairs and dust from collecting to an appreciable degree among the bristles, and by the partial barriers they present, acting as intercepting strips and scrapers for drawing and collecting both hair and dust from the parts undergoing currying. As is noticeable, said flaps or side-pieces afford ready and easy grasping portions for the thumb and fingers of the operator's hand. Also, they serve to retain the downward free ends of the bristles compactly during the operating of the brush, and undesirable separation therefor prevented. As evident, the straight draw-edge of the duplicate flaps or scraper-sheets (or blades) necessarily gathers and retains (until removal) the hairs and dust, &c., collected from the animal's hairy coat through the action of the bristles of the brush.

The advantages accruing through the utilization of my improved construction of a horse-brush is thoroughly obvious to owners or handlers of horses or other domesticated animals.

Practical tests on my part of my device, has fully demonstrated its efficiency, usefulness and value.

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

The combination, in a horse or currying-brush, of the back 1 provided at its side-edges with parallel recesses *a*, bristles 2 standing out from the bottom face thereof, flaps or side-pieces A extending downward from the side-edges of the brush back and their lower drawing edges disposed on a plane parallel to and slightly above the terminating line of the major portion of the aggregated

bristles, and their lower corners rounded as at *e*, guards or stiffening strips B virtually covering the outer sides of the flaps A except for a slight distance from their lower edges, vertical incisions in the bottom portions of the guard-strips creating fingers *h*, straps C disposed outside the upper portions of the guards parallel and contiguous their upper edges, and their ends terminating slightly beyond the ends of the guards and underneath flaps, and nails passing through the straps C and underlying parts into the sides of the back and fastening the aforesaid in place, substantially as described and shown, and for the purposes set forth.

In testimony whereof I affix my signature, in presence of two witnesses, this 22d day of August, 1893.

HEMAN L. BARNEY. [L. S.]

Witnesses:
GEORGE R. COLLINS,
A. E. RICHARDS.