No. 648,942. Patented May 8, 1900.

W. L. FRISBIE.

CURRYCOMB.

(Application filed Dec. 29, 1898.)

(No Model.)

Fig 1

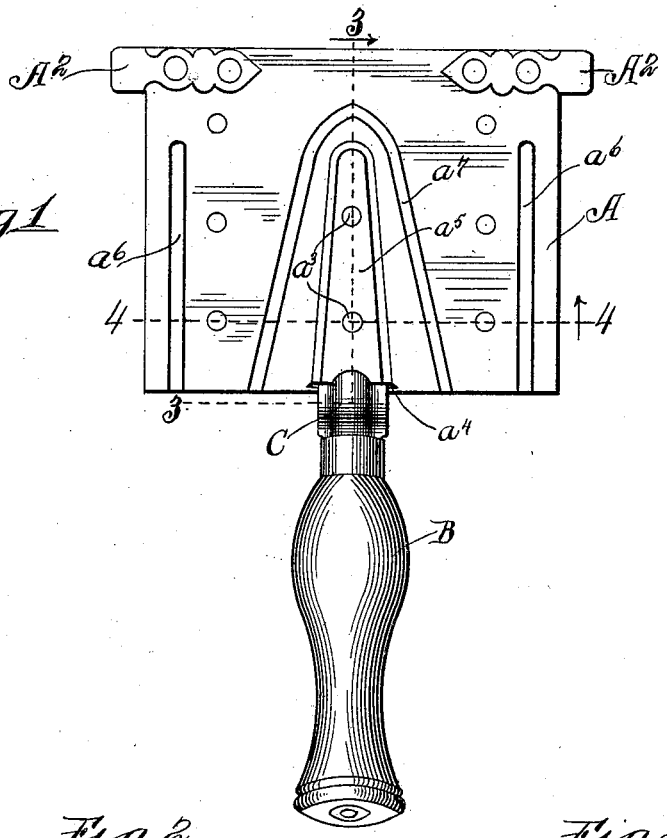


Fig 2

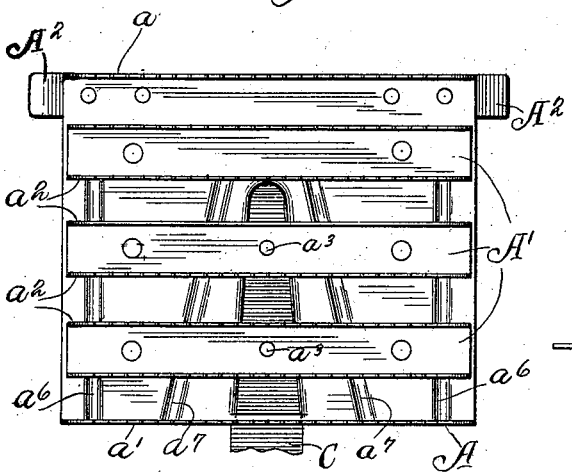


Fig 3

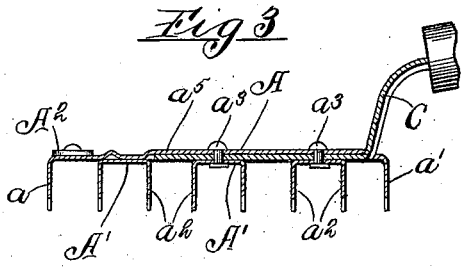
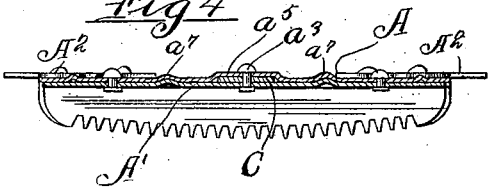


Fig 4



Witnesses:-
C. A. Crawford
William L. Hall

Inventor:-
William L. Frisbie
by Poole & Brown
his Attys

UNITED STATES PATENT OFFICE.

WILLIAM L. FRISBIE, OF RACINE, WISCONSIN, ASSIGNOR TO THE L. B. BAKER MANUFACTURING COMPANY, OF SAME PLACE.

CURRYCOMB.

SPECIFICATION forming part of Letters Patent No. 648,942, dated May 8, 1900.

Application filed December 29, 1898. Serial No. 700,618. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM L. FRISBIE, of Racine, in the county of Racine and State of Wisconsin, have invented certain new and useful Improvements in Currycombs; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in currycombs, and refers more particularly to an improved means for attaching the handle-shank to the back-plate of the comb.

Heretofore it has been the practice to attach the handle-shank to the outer face of the back-plate of the comb, transversely thereof, by means of rivets or the like passing through said shank and back-plate. This construction has been found objectionable, for the reason that in the rough usage to which the comb is subjected, and more particularly the impact of the comb against a hard or stationary body for the purpose of dislodging the dirt therefrom, the metal of the back-plate becomes broken in the part thereof adjacent to the attaching-rivets, as the entire shock or jar due to such impact is exerted on said back-plate at such points. For this reason it often occurs that a currycomb which has been but little used and is in other respects as good as new must be discarded for a new comb. To remedy this defect, I propose to attach the shank of the handle to the inner side of the back-plate and between the same and the channel-plates, upon which the blades carrying teeth or scurfing edges of the currycomb are formed, the said shank being attached in place by means of rivets or the like passing through the back-plate, shank, and channel-plates. The channel-plates being secured throughout their length to the back-plate by rivets or like attaching means and the shank of the handle being secured between said channel-plates and the back-plate, it will be seen that the jar and shocks due to the impacts before mentioned will be distributed throughout the back-plate and not to a single point, as in prior constructions, so that the life of the comb will be greatly lengthened.

The invention consists in the matters hereinafter set forth, and more particularly pointed out in the appended claims.

In the drawings, Figure 1 is a top plan view of a currycomb made in accordance with my invention. Fig. 2 is a bottom plan view of the same. Fig. 3 is a cross-section taken on line 3 3 of Fig. 1. Fig. 4 is a cross-section taken on line 4 4 of Fig. 1 and at right angles to the view shown in Fig. 3.

As shown in said drawings, A designates the back-plate, B the handle, and C the shank. The back-plate in the present instance is provided at its front and rear edges with flanges a a', which are notched to form the teeth and constitute the outer and inner toothed blades. Between said inner and outer blades are provided a number of intermediate parallel blades, which consist of channel-plates A', (three in number in the present instance,) said plates being attached at different points along their length to the back-plate by means of rivets, as shown, and the flanges of which constitute blades a^2, which are properly notched at their outer edges to form the currying or scurfing edges. Preferably one or more of said blades will be left blank, as usual in this class of combs.

The end of the shank C remote from the handle B is inserted between the back-plate A and the channel-plates A' transversely of said channel-plates and is secured rigidly in place by means of rivets a^3, as herein shown, which pass through the back-plate, shank, and the channel-plates and serve to unite the same rigidly together. In the present construction, wherein the rear blade a' of the currycomb is formed by a flange on the rear edge of the plate, said plate is provided centrally thereof with a slot or opening a^4, through which the shank is inserted. Said slot or opening is desirably formed slightly inside of the rear blade a', so that said blade will not be weakened thereby. In case the rear blade a' is not formed an integral part of the back-plate such slot may be omitted and the shank passed between the rear channel-plate or other part on which the rear blade is formed and the back-plate. Preferably the part of the back-plate engaged by the shank will be bent upwardly, as shown at a^5, by a suitable swag-

ing-tool to a height equal to the thickness of the shank, thereby providing room for the shank between the back-plate and the channel-plates, while at the same time allowing the channel-plates to fit closely in contact with the back-plate throughout the length thereof. Obviously accommodation for the thickness of the shank might be made in the channel-plates, so that the upper face thereof will lie flush with the inner surface of the back-plate.

The back-plate will be provided with stiffening-ribs a^6 a^7 to give rigidity thereto and will be provided at its forward corners with knocking-lugs A^2, formed thereon or secured rigidly thereto in any suitable manner.

A currycomb made in accordance with my invention possesses great strength to resist strains which tend to separate the shank and the back-plate or to break the latter. This strength is secured by reason of the fact that the shank is attached to both the back-plate and the channel-plates upon which the toothed blades are formed and between the same, so that the strain due to impact of the comb against a solid or stationary body is distributed throughout that portion of the plate to which the shank and the connected channel-plates are attached. My construction therefore greatly increases the life of the comb by providing an attachment which will last during the normal life of the comb. Moreover, the placing of the handle-shank beneath the back-plate of the comb does away with projections and sharp angles on the back of the comb, which are liable to become entangled in the long hairs, especially the mane and tail, of the horse upon which the comb may be used.

From an inspection of the drawings it will be seen that the shank of the handle is located in a recess formed in the inner face of the back-plate, or it may be in the adjacent faces of the channel-plates, and that the edges of the shank rest in contact with the side walls of said recess. With this construction it will be seen that strains due to impact of the comb against a solid body will be partially taken up by said side walls of the recess and transmitted therethrough to the plate in which said recess is formed and in the direction of the plane of said plate. Moreover, with this construction should the rivets or other attaching means become slightly loosened said recess will hold the shank in place, so that the tendency of lateral strain upon the shank to break the rivets or plate or detach the rivets from the plate or shank will be greatly lessened.

I claim as my invention—

1. A currycomb comprising a back-plate, a handle-shank and one or more channel-plates which are separated from said back-plate and are attached rigidly thereto, said shank being inserted between said back-plate and the channel-plates and attached thereto by rivets or the like which pass through the said back-plate shank and channel-plates.

2. A currycomb comprising a back-plate, a handle-shank and one or more channel-plates which are separate from said back-plate and are rigidly attached thereto, said back-plate being made of a single piece of sheet metal of a size approximating that of the finished comb and the shank being inserted between said plate and the channel-plates and attached rigidly to said plate and certain of the channel-plates.

3. A currycomb comprising a back-plate, a handle-shank and one or more channel-plates which are separate from and attached rigidly to said back-plate, the rear edge of the back-plate being turned at right angles to the main body of the plate to form the rear blade of the comb and being provided at the upper edge of said blade with a slot, and the shank being passed through said slot and between said back-plate and the channel-plates and secured rigidly to said plates.

4. A currycomb comprising a back-plate, a handle-shank and one or more channel-plates which are separated from said back-plate and are attached rigidly thereto, said shank being inserted between said back-plate and the channel-plates and attached thereto by rivets or the like which pass through the said back-plate shank and channel-plates, said back-plate being swaged outwardly to provide a recess for said shank and the side margins of said shank being engaged with the side walls of said recess.

In testimony that I claim the foregoing as my invention I affix my signature, in presence of two witnesses, this 3d day of November, A. D. 1898.

WILLIAM L. FRISBIE.

Witnesses:
L. B. BAKER,
H. B. HALL.