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COMBINED HAIR BRUSH AND COMB.

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To all whom it may concern:

Be it known that I, RUDOLPH SALAC, a citizen of the United States of America, residing at Buckholts, in the county of Milam and State of Texas, have invented certain new and useful Improvements in Combined Hair Brushes and Combs, of which the following is a specification.

This invention relates to certain new and useful improvements in combined hair brushes and combs of the type wherein comb elements are shiftably mounted relative to the brush backing to permit projection of the comb element to operative position for use and retraction thereof out of the way when it is desired to use the hair brush only.

The primary object of the invention is to provide a combined hair brush and comb wherein a pair of comb elements independently operable are normally retained in retracted positions relative to the brush bristles with each comb element at one side of the brush backing and selectively projected for use at the side of the brush backing and adjacent the bristles.

With the above general objects in view and others that will appear as the nature of the invention is better understood, the same consists of the novel form, combination and arrangement of parts hereinafter more fully described, shown in the accompanying drawings and claimed.

In the drawings, wherein like reference characters designate corresponding parts throughout the several views,

Figure 1 is a top plan view of the back of the combined hair brush and comb showing one of the comb elements projected to operative position,

Figure 2 is a side elevational view,

Figure 3 is an end elevational view showing both comb elements projected to operative position,

Figure 4 is a similar end elevational view showing the comb elements in their retracted positions,

Figure 5 is a perspective view of the wire frame supporting a comb element,

Figure 6 is a perspective view of the slot for anchoring the forward ends of the comb supporting frames to the brush backing,

Figure 7 is a perspective view of one of the cam blocks for automatically projecting a comb element.

The combined hair brush and comb includes a brush backing 1 carrying a handle 2 at one end thereof and having brush bristles 3 projecting from one face as illustrated.

The shiftably mounted comb elements are supported on the face of the backing 1 opposite the bristles 3 and the comb elements being of identical formation, each includes a comb supporting frame of the type best illustrated in Fig. 5 having an elongated rod 4 bent to provide a right angle extension 5 and a return leg 6 parallel with the rod 4 with the free end of the leg 6 right angularly bent as at 7 with the terminal end thereof anchored as at 8 to the rod 4 while the portions 4 to 7 inclusive of the same present a rectangular formation. The inner free end of the rod 4 is right angularly bent as at 9 to provide an operating finger and the fingers 9 of the two comb supporting frames are directed toward each other as shown in Fig. 4.

The mounting of the comb supporting frame upon the upper face of the brush backing 1 includes an outer cross arm 10 that is secured as at 11 to the brush backing and having spaced grooved portions 12 in the lower face thereof that rotatably restrain the outer ends of the frame rods 4. The forward corner edges of the arm 10 are cut away as at 13 to provide clearances for movement of the extensions 5 of the comb supporting frame. A cross arm 14 is associated with the inner ends of the rods 4 adjacent the portions 7 of the frame and is grooved on the lower face thereof for rotatably restraining the adjacent portions of the rods 4, the arm 14 being anchored to the brush backing as at 15.

Each comb 16 carrying a plurality of teeth 17 has the toothed portion thereof slidable over the beveled sides 18 of the brush backing 1 as clearly shown in Figs. 3 and 4, the combs being retained in position relative to the brush backing by the headed pins 19 secured to the beveled edges 18 and having the headed portions thereof projecting outwardly of the comb teeth while strap bearings 20 constitute pivotal mountings for the comb elements upon the comb supporting frames. To hold the comb elements in their normally retracted positions as shown in Figs. 2 and 4, spring devices are associated with the comb supporting frame and include a coil spring 21 for each rod 4, one
end of the spring being anchored to the rod while the other end 22 thereof projects laterally for engaging the flat face of the brush backing 1, the brush backing being channelled as at 23 to provide clearances for the springs 21. To forcibly project the comb elements selectively from opposite sides of the brush backing to positions adjacent the brush bristles 3 as shown in Fig. 3, the handle 2 of the brush has the face thereof adjacent the comb supporting frames longitudinally recessed as at 24 while opposite edges of the handle 2 are longitudinally slotted as at 25 with the slots and grooves communicating. A block 26 is slidably in each groove 24 and is anchored therein by the screw 27 passing through the adjacent slot 25 and entering the opening 28 in the block while an eye bolt 29 projecting from the outer face of the block above the handle 2 encloses the inner end of the rod 4 as clearly shown in Fig. 2, the opposite sides of the handle 2 being cut away as at 30 to provide clearances for the eye bolts 29. The upper rear edge of each block 26 is formed with a curved cam face 31 that engages the finger 9 upon the inner end of the adjacent rod 4.

It will therefore be seen that when the blocks 26 are moved toward the ends of the grooves 24 in directions toward the brush backing 1, the springs 21 associated with the comb supporting frames and brush backing will elevate the comb supporting frames to the positions shown in Fig. 4 and horizontally position the finger extensions 9 upon the comb supporting frame. When it is desired to project either of the comb elements as illustrated in Fig. 3, the desired block 26 is shifted toward the outer end of the handle 2 and the cam face 31 thereof engaging the finger extension 9 of the comb supporting frames will cause a rotation of the rod 4 and an outward arcuate movement of the leg 6 of the frame with the desired comb element projected outwardly of the comb backing and in directions to be disposed adjacent the brush bristles 3, the comb elements being guided in their movements by the headed pins 19 associated with the comb teeth 17. When the block 26 is moved in the groove 24 in a direction toward the brush backing 1, the springs 21 automatically retract the comb elements and again position the fingers 9 of the comb supporting frames in engagement with the cam faces 31 of said blocks. The cross arms 10 and 14 retain the comb supporting frames in position upon the brush backing 1 and permit free rotation of the rod sections 4 thereof while the strap members 20 permit free movement of the comb elements relative to the comb supporting frames.

While there is herein shown and described the preferred embodiment of the present invention, it is nevertheless to be understood that minor changes may be made therein without departing from the spirit and scope of the invention as claimed.

What is claimed is:
1. In a combined hair brush and comb, a brush backing, bristles projecting from one face thereof and a pair of independently operating comb elements carried by the other face of the backing, each comb element including a comb supporting frame resiliently and pivotally supported on the backing, and a manually operable cam-block slideable on the backing and cooperating with the frame for projecting the comb element upon sliding movement thereof in one direction.
2. In a combined hair brush and comb, a brush backing, bristles projecting from one face thereof, a tensioned wire frame pivotally supported on the backing, a comb element carried by the frame and manually operable means cooperating with the frame for projecting the comb element against the tension on the frame.
3. In a combined hair brush and comb, a brush backing, bristles projecting from one face thereof, a tensioned wire frame pivotally supported on the backing, a comb element carried by the frame, a rod extension on the frame and a block slideable on the backing and cooperating with the rod extension for projecting the comb element upon sliding movement thereof in one direction.
4. In a combined hair brush and comb, a brush backing, bristles projecting from one face thereof, a tensioned wire frame pivotally supported on the backing, a comb element carried by the frame, a rod extension on the frame, a block slideable on the frame and having a cam face and a finger extension on the rod engaging the cam face to effect projection of the comb element upon sliding movement of the block in one direction.

In testimony whereof I affix my signature.

RUDOLPH SALAC.