F. J. COLCHIN.

COMB CLEANER.

APPLICATION FILED SEPT. 30, 1916.

1,249,334. Patented Dec. 11, 1917.

Fig. 1.

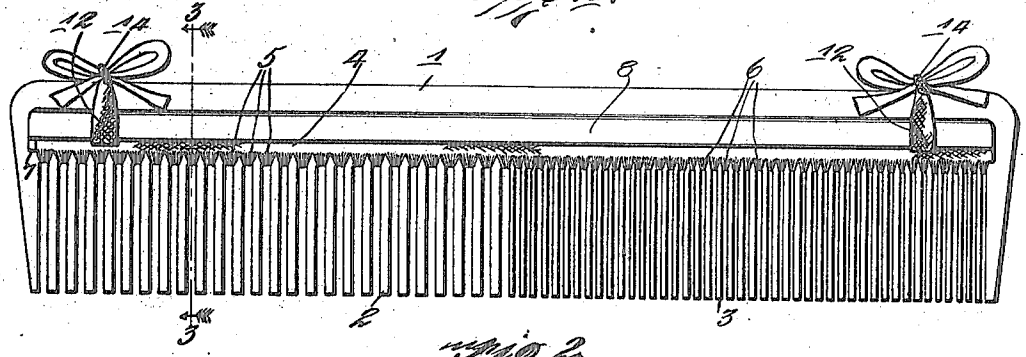


Fig. 2.

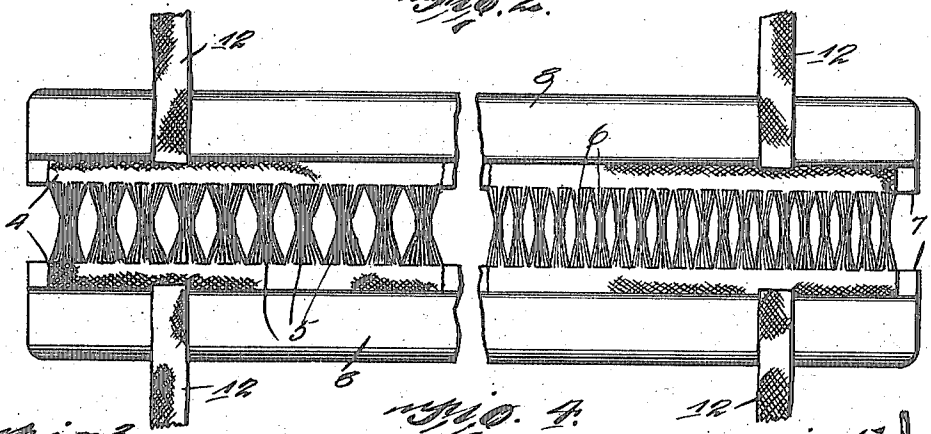
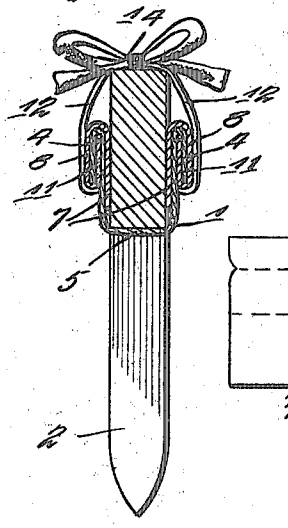


Fig. 3.



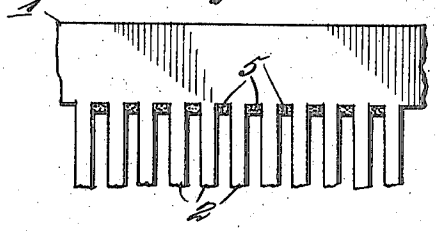
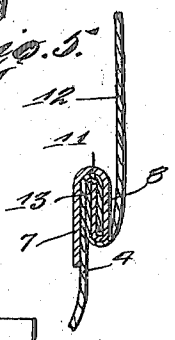


Fig. 4.

Fig. 5.



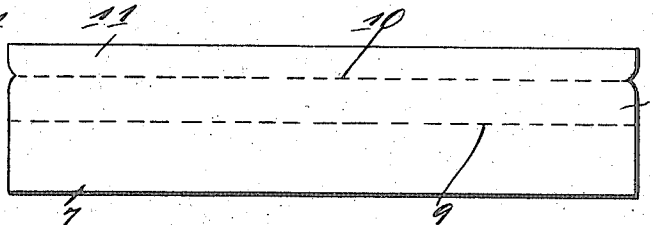


Fig. 6.

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UNITED STATES PATENT OFFICE.

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COMB-CLEANER.

1,249,334. Specification of Letters Patent. Patented Dec. 11, 1917.

Application filed September 30, 1916. Serial No. 123,042.

To all whom it may concern:

Be it known that I, FREDERICK J. COLCHIN, a citizen of the United States of America, residing at Decatur, in the county of Adams and State of Indiana, have invented certain new and useful Improvements in Comb-Cleaners, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a comb cleaner and has for its principal object the production of a structure which is intended to fit upon the body of a comb normally, thereby being out of the way when it is desired to use the comb, although when it is desired to clean the comb of dandruff or other refuse the cleaner may be drawn downwardly so as to cause the cleaning webs fitting between the teeth to drag therealong and thus clean the comb.

Another object of this invention is the production of a comb cleaner wherein a plurality of retaining frames are connected to the side portions of the webs so that the frames may fit upon the body of the comb normally permitting the comb to be used without interference from the cleaner, although when so desired the frames may be released for permitting the webs to be drawn toward the outer ends of the teeth, thus positively cleaning the same.

Another object of this invention is the production of a comb cleaner wherein the frames are formed from blank sheets of material which are bent longitudinally so as to provide a number of bodies so arranged as to bind upon the side strips of the webs and also to secure the retaining ribbons, thereby causing the entire cleaner to be positively retained in an assembled position upon all occasions.

With these and other objects in view this invention consists of certain novel combinations, constructions, and arrangements of parts as will be hereinafter fully described and claimed.

In the accompanying drawing:—

Figure 1 is a side elevation of the comb cleaner, illustrating the same mounted upon a comb, and as the same appears when carried upon the body of the comb and when the comb is ready for use.

Fig. 2 is a plan view of the comb cleaner, partly broken away, and shown in an extended position.

Fig. 3 is a sectional view taken on the line 3—3 of Fig. 1, looking in the direction of the arrows.

Fig. 4 is a fragmentary side elevation of a portion of the comb, showing the webs in section, and illustrating the manner in which the same fit between the teeth.

Fig. 5 is an enlarged sectional view through one of the frames, illustrating the manner in which the side strips and retaining ribbons are carried by the frames.

Fig. 6 is a plan view of the blank from which one of the frames is formed.

Referring to the accompanying drawing by numerals it will be seen that the comb cleaner is adapted to be used upon a comb having the usual body 1 from which extend the coarse teeth 2 and the fine teeth 3. It is, of course, obvious that this comb cleaner is capable of being used upon all forms and sizes of combs for the construction of the comb cleaner in all instances will be the same and the operation will be identical. The fabric side strips 4 are connected together in spaced relation by the webs 5 and 6. It will be seen that the webs 5 are adapted to fit between the coarse teeth 2, while the webs 6 are adapted to fit between the fine teeth 3, although if so desired the webs may all be of the same size for fitting upon combs which have all of their teeth of a uniform size. These webs 5 and 6 are formed of the same material as the side strips 4, simply by drawing the longitudinal threads from the longitudinal fabric sheet so that the transverse threads may be compressed at central points between the side strips 4, thereby retaining the webs intermediate their ends so as to permit these webs to fit between the teeth of a comb, as shown in Figs. 1, 3, and 4.

The two frames used in connection with the cleaner are similarly constructed, each frame being formed from a blank, as shown in Fig. 6, and comprising an elongated body 7. This body 7 is folded longitudinally so as to provide an outer flange 8, since the body 7 is folded along the dotted line 9. The flange 8 is folded along the dotted line 10 so as to provide the longitudinally extending lip 11 which fits within the space between the body 7 and the flange 8 when the structure is folded as shown very clearly in Figs. 3 and 5. One of the side strips 4 is positioned upon one side of the body 7 and extends around the inner edge of the longitudinal lip 11 fitting between the lip 11 and the inner portions of the flange 8. As the

side strips 4 extend throughout practically the entire length of the frames, the strips will be firmly held within the frames, for after being positioned within the frame as above described, the frame is then clamped to present a very thin structure, thereby causing the side strips to be clamped between the body and lip and the lip and flange so as to hold the strips against accidental displacement. Before the frames are finally clamped upon the side strips 4, however, the tying ribbons 12 have their inner ends 13 extending so as to fit within the frame between the lips 11 and the side strips 40, so that a binding action will take place as shown in Fig. 5, thereby positively holding the tying ribbons upon the frames. It is obvious that a number of these ribbons are employed, as shown in Figs. 1 and 2 so that their outer ends may be drawn together and tied as indicated at 14, for releasably retaining the comb cleaner in a set position upon the body 1 of the comb. After the comb has been in use for some time and it is desired to clean the same the tied ends of the ribbons 12 are released, after which the frames, of course, will drop from engagement with the body 1 of the comb. Upon downward pressure being exerted upon the frames it will be seen that the webs will be drawn between the teeth 2 and 3 toward the outer ends of these teeth, thereby causing the webs to firmly bind upon the inner surface of the teeth, while the cleaner is being moved downwardly so that the dragging action of the webs upon the teeth will positively remove dandruff and other refuse from the teeth. After the comb cleaner has been drawn to the outer ends of the teeth so that all of the refuse will be positively and efficiently removed the cleaner may be returned to its normal position, at which time the webs will be carried adjacent the inner ends of the teeth, while the frames will fit upon the body so that after the ribbons have been tied the comb cleaner may be carried in its normal position. Under such circumstances it will be seen that the cleaner will be out of the way and will not interfere with the use of the comb, although when so desired the cleaner may be moved so as to efficiently remove particles of refuse from between the teeth of the comb.

From the foregoing description it will be seen that a very simple and efficient comb cleaner has been provided which is constructed so as to be in position for operation at all times, while the construction of the frames which are formed from blank sheets of material are such as to hold the strips and the cleaning webs in engagement therewith, as well as retaining the tying ribbons, so that the entire comb cleaner will be held in an operative position, and thus minimizing the possibility of its becoming out of order when in use.

What is claimed is:—

1. A comb cleaner of the class described, comprising a pair of side strips, webs connected to said strips, frames connected to said strips, each frame being formed from a blank and comprising a body, said body being bent longitudinally so as to provide an outer overhanging flange, said flange being bent longitudinally so as to provide an inwardly extending inner lip fitting within the space between said body and said flange, said strips fitting upon said bodies and extending around said lips so as to fit between the inner portions of said flanges and said lips, said frames being clamped upon said strips, whereby said strip will be held against accidental displacement, and means for releasably retaining said frames upon the body of a comb, whereby when said frames are released said strips may draw said webs along the teeth of a comb for cleaning the teeth.

2. A comb cleaner of the class described, comprising a pair of side strips, webs connected to said strips, frames connected to said strips, each frame being formed from a blank and comprising a body, said body being bent longitudinally so as to provide an outer overhanging flange, said flange being bent longitudinally so as to provide an inwardly extending inner lip fitting within the space between said body and said flange, said strips fitting upon said bodies and extending around said lips so as to fit between the inner portions of said flanges and said lips, said frames being clamped upon said strips whereby said strips will be held against accidental displacement, and ribbons having their ends extending between the bodies of said frames and the lips thereof, whereby the clamping action of the frames will hold the ribbons in fixed engagement therewith, said ribbons being adapted to be connected to each other for releasably retaining said frames upon the body of a comb so that when the frames are released the webs may be moved along the teeth of a comb for cleaning the same.

3. A comb cleaner comprising a cleaning sheet, frames positioned upon said sheet adjacent its side edges, tying ribbons extending into said frames, and said frames being clamped upon said sheet and ribbons, whereby the cleaner will be retained in an assembled condition.

4. A comb cleaner comprising a pair of frames, each frame being formed from a blank and comprising a body, said body being bent longitudinally to form an overhanging flange, said flange being bent longitudinally to form an inwardly extending inner lip positioned within the space be-

tween said body and said flange, a cleaning sheet fitting upon said bodies and extending around said lips so as to fit between the inner portions of said flanges and said lips, said frames being clamped upon said sheet, and means for releasably holding said frames upon a comb.

5. A comb cleaner comprising a pair of frames, each frame being formed from a blank and comprising a body, said body being bent longitudinally to form an overhanging flange, said flange being bent longitudinally to form an inwardly extending inner lip positioned within the space between said body and said flange, cleaning means fitting upon said bodies and extending around said lips so as to fit between the inner portions of said flanges and said lips, ribbons having their ends extending between the bodies of said frames and the lips thereof, said frames being clamped upon said means and ribbons, whereby said cleaner will be held in an assembled condition.

In testimony whereof I hereunto affix my signature.

FRED. J. COLCHIN.

Witnesses:

TONK MEIBERS,

RICHARD BOCH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."