Nov. 3, 1925. 1,560,347

L. A. GAMBON

VACUUM COLLECTOR

Filed July 27, 1925 2 Sheets-Sheet 1

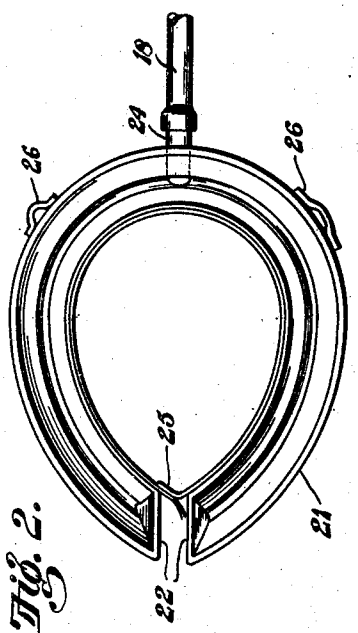


Fig. 2.

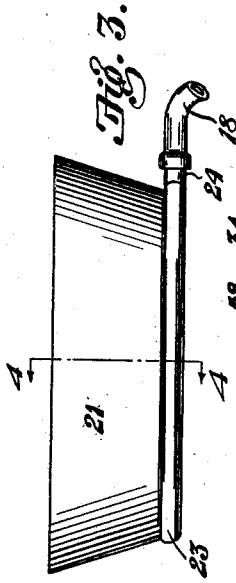


Fig. 3.

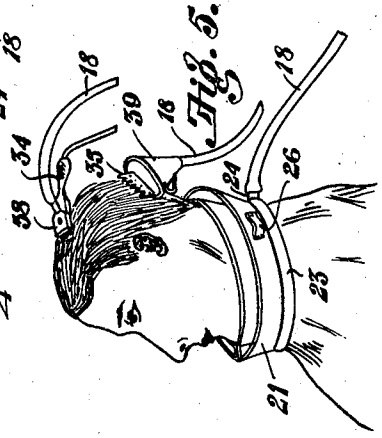


Fig. 5.

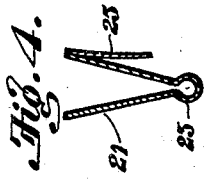


Fig. 4.

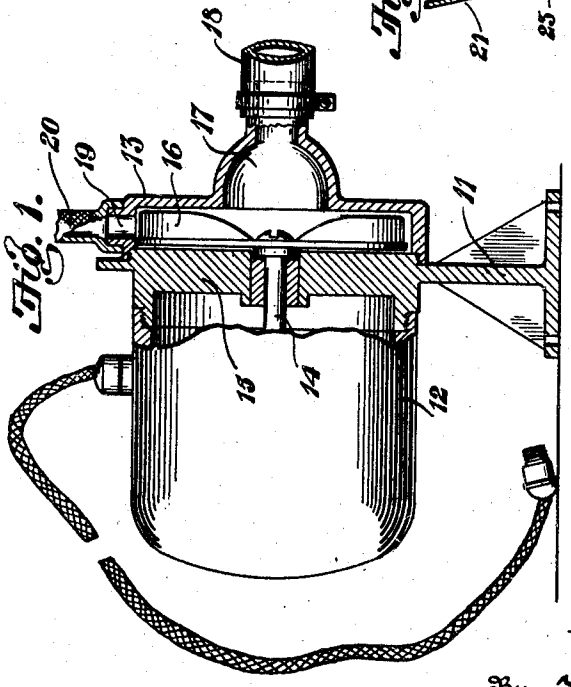


Fig. 1.

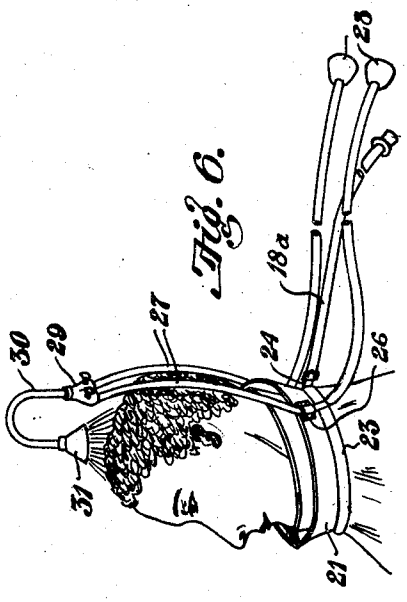


Fig. 6.

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L. A. GAMBON

VACUUM COLLECTOR

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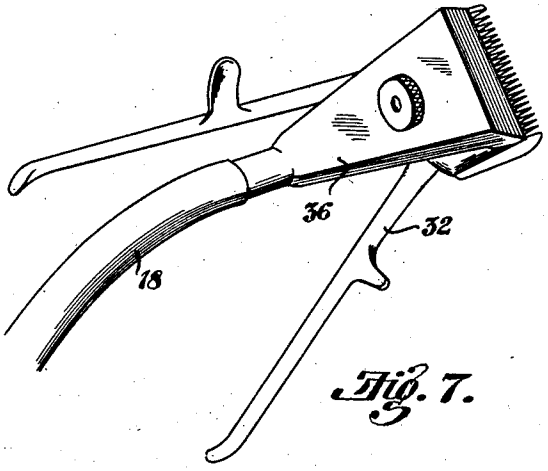


Fig. 7.

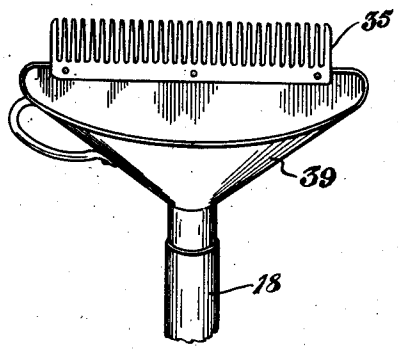


Fig. 10.

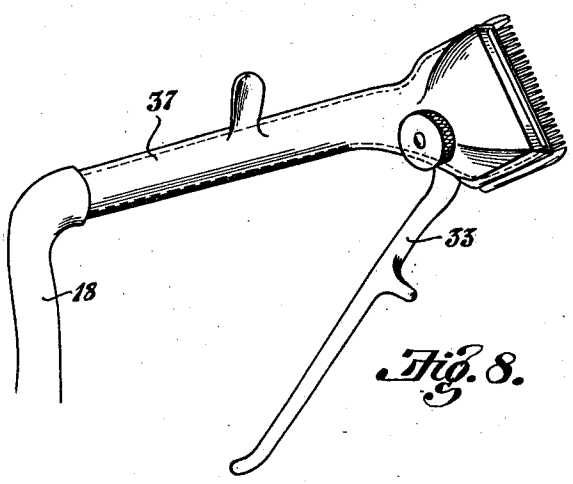


Fig. 8.

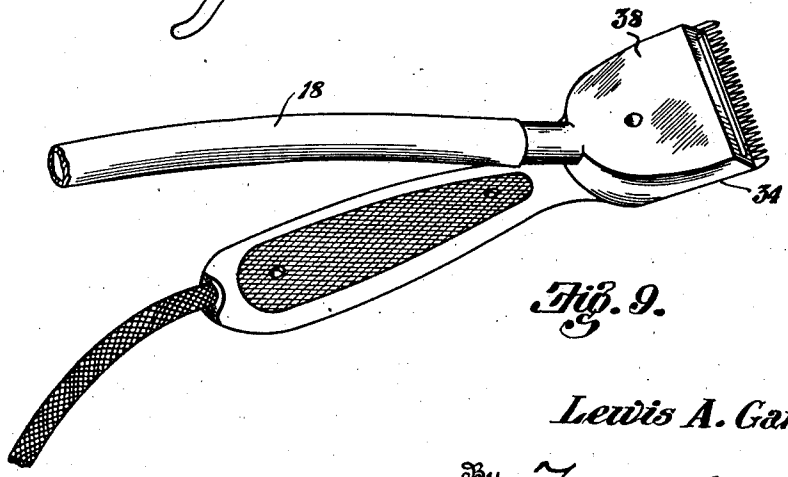


Fig. 9.

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Patented Nov. 3, 1925. 1,560,347

UNITED STATES PATENT OFFICE.

LEWIS A. GAMBON, OF CANTON, OHIO.

VACUUM COLLECTOR.

Application filed July 27, 1925. Serial No. 46,377.

To all whom it may concern:

Be it known that I, LEWIS A. GAMBON, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Vacuum Collectors, of which the following is a specification.

This invention relates to apparatus for use in barber shops and similar places for collecting hair clippings by means of a vacuum device, and more especially to an apparatus of this character which may be connected with an exhaust fan for carrying away hair clippings from a person whose hair is being cut, and which is adapted to be also connected with a water supply and drain for use in shampooing or washing of the hair, whereby the waste water is carried away.

The object of the invention is to provide a vacuum apparatus including an exhaust fan and a trough-like collar adapted to be placed around the neck of a person whose hair is being cut, and arranged to be connected to said exhaust fan whereby the hair clippings falling into said trough-like collar are immediately carried away, provision being made for connecting hair clippers, combs or the like to the vacuum fan for preventing hair clippings from falling upon the face or person, means being also provided for connecting said trough-like collar to a water supply and drain whereby the same may be used in washing or shampooing the hair, a continuous supply of water being provided, and the waste water being continuously carried away.

An embodiment of the invention thus set forth in general terms is illustrated in the accompanying drawings, in which,

Figure 1, is a longitudinal sectional view of the exhaust fan;

Fig. 2, a plan view of the trough-like collar;

Fig. 3, a side elevation of the same;

Fig. 4, a transverse section on the line 4—4, Fig. 3;

Fig. 5, a perspective view showing the collar in use as a hair clipping collector;

Fig. 6, a similar view showing the collar in use for shampooing or washing of the hair;

Fig. 7, a perspective view showing the vacuum tube connected to a hand operated hair clipper of usual construction;

Fig. 8, a similar view showing a specially devised hand operated clipper for connection to the vacuum device;

Fig. 9, a similar view of an electrically operated hair clipper, and,

Fig. 10, a perspective view of a specially devised comb arranged to be connected to the vacuum apparatus, for use in cutting or trimming the hair with scissors.

Similar numerals of reference indicate corresponding parts throughout the drawings.

The vacuum apparatus, as illustrated in Fig. 1, may be supported upon a bracket or upright 11, and comprises the motor 12, and the fan casing 13, the shaft 14 of the motor extending through the partition wall 15, wherein it is journaled, and carrying a suction fan 16, of any usual form. The inlet eye 17 of the fan casing may be centrally disposed with reference to the fan 16, and a hose 18 connected thereto for attachment to the apparatus, as hereinafter described. The fan casing is provided in usual manner, with an exhaust opening 19 at one side, which may be connected to a tube or hose 20 for carrying away the exhaust from the fan.

The neck band, indicated generally at 21, may be of soft rubber or similar material, of substantially eliptical shape, being trough or V-shape, and closed at the ends as shown at 22, a tubular portion 23 communicating with the lower end of the trough, and having a neck 24 substantially at its central portion for connection to the hose 18. This neck band may be provided around its inside with a flap 25 of flexible material, adapted to fit closely around the neck of the wearer to prevent any loose hairs from dropping between the trough and the neck.

As shown in Fig. 5, when the device is used for cutting or trimming the hair, the trough is placed around the neck in the position shown, the ends thereof substantially meeting at the front, while the tube 18 extends from the rear of the neck band to the inlet opening of the exhaust fan 16. As the hair is clipped or cut the clippings will drop into the V-shape trough 21 and be carried by suction around the open tube 23 and into the outlet tube 18, from whence they will be exhausted through the vacuum fan.

When it is desired to use the device for washing or shampooing the hair, as shown

in Fig. 6, the vacuum tube 18 is disconnected and a drain tube 18[a] is connected to the outlet 24 of the neck band.

The neck band 21 may be provided on each side with loops 26, through which hot and cold water tubes 27 may be passed, these tubes being provided at one extremity with connections 28, by means of which they may be attached to hot and colt water faucets, the other ends of said tubes being connected to a Y-head 29, to which is connected an inverted U-shape pipe 30, provided with a spray nozzle 31, by means of which water of any desired temperature may be sprayed upon the head of a person, the waste water being received in the V-trough 21 and carried to a drain through the tube 18[a].

For the purpose of preventing any loose hair from being dropped upon the face or head of the person, a vacuum tube 18, connected with the exhaust fan, may be attached to the clippers 32, 33 or 34, as shown in Figs. 7, 8, and 9, or to the comb shown in Fig. 10.

In Fig. 7 is shown a housing 36 arranged to be carried by the vacuum tube and connected to the usual form of hand operated hair clippers 32.

In Fig. 8 is shown a special manually operated clipper, one handle 37, of which, is tubular for the connection of the vacuum tube, and in Fig. 9, a housing 38 is provided for connecting the vacuum tube to the usual electrically operated clippers 34.

A funnel 39, as shown in Fig. 10, may be connected to the vacuum tube, and the comb 35 may be rigidly connected to said funnel, whereby as the comb is passed through the hair which is trimmed or cut by means of scissors, the hair clippings will drop into the funnel 39 and be conveyed through the vacuum tube to the exhaust fan.

I claim:

1. A device of the character described including a V-shape trough arranged to be placed around the neck of a person, a tubular channel communicating at one side with the bottom of the trough and a suction tube connected to the central portion of said channel.

2. A device of the character described including a V-shape trough arranged to be placed around the neck of a person, a flexible flap around the inside of the trough, a tubular channel communicating at one side with the bottom of the trough and a suction tube connected to the central portion of said channel.

3. A device of the character described including a vacuum apparatus, a trough-like neck band connected to the vacuum apparatus, and hair clippers connected to the vacuum apparatus.

4. A device of the character described including a vacuum apparatus, a trough-like neck band connected to the vacuum apparatus, a funnel connected to the vacuum apparatus and a comb carried by said funnel.

5. A device of the character described including a V-shape trough arranged to be placed around the neck of a person, an outlet tube connected to the trough and means upon the trough for supporting a tube adapted to spray water upon the head of the wearer.

In testimony that I claim the above, I have hereunto subscribed my name.

LEWIS A. GAMBON.