

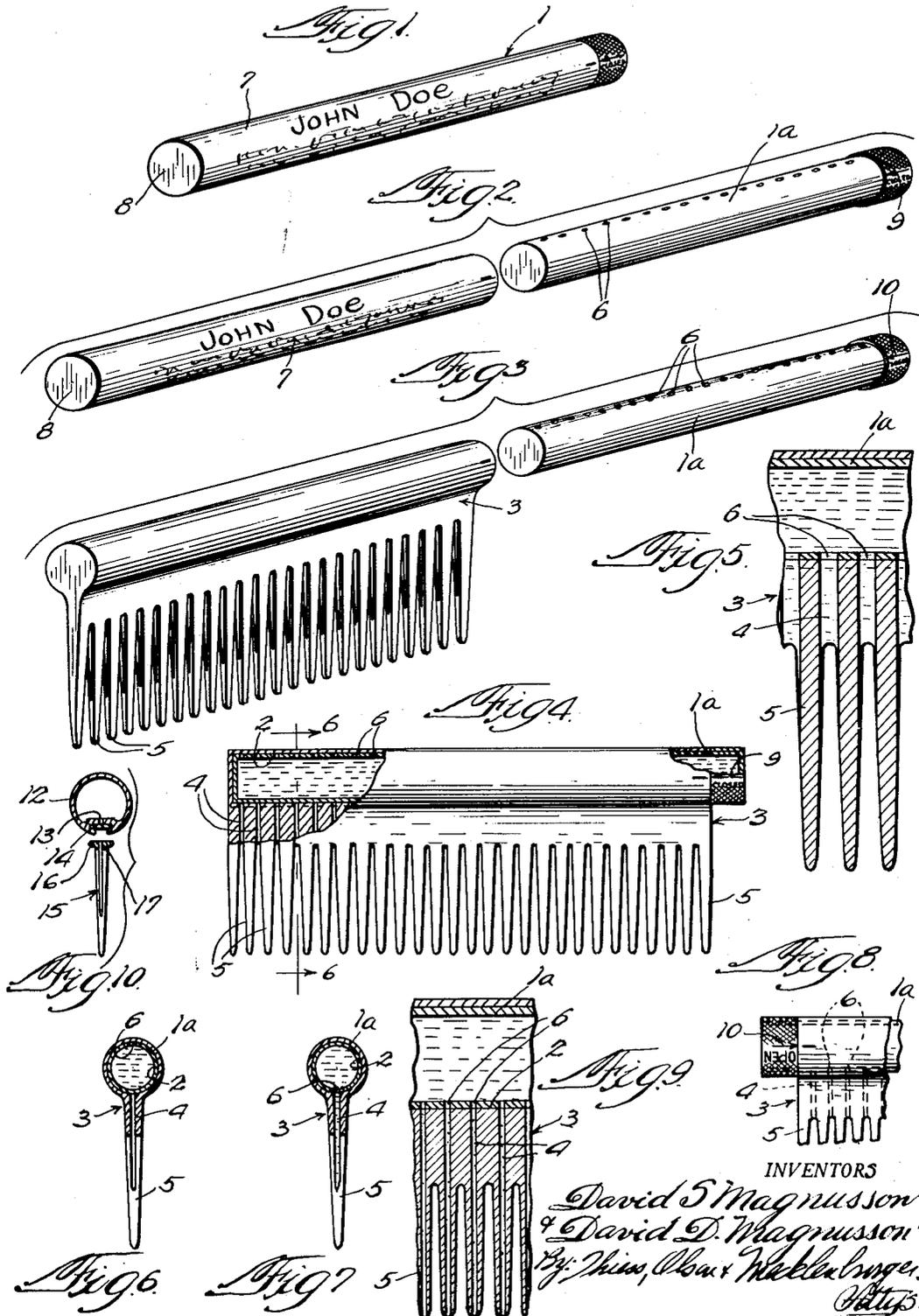
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LIQUID CONTAINER AND COMB USED THEREWITH

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LIQUID CONTAINER AND COMB USED THEREWITH

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3 Claims. (Cl. 132—114)

This invention relates to liquid containers to be inserted into a chamber in a comb for supplying liquid to the teeth of the comb.

One of the objects of the invention is to provide a receptacle for a fluid, having a row of discharge openings for the fluid in the receptacle and having a removable closure for these openings, which construction will enable the receptacles filled with fluid to be carried in stock, and which will enable the user to remove this closure from the receptacle when desired and insert the receptacle with the liquid therein into a cylindrical chamber in a complementary comb, having a cylindrical chamber for receiving the receptacle, and having a row of aligned passages leading from this chamber to the teeth of the comb, whereby the receptacle when inserted into the comb may be given a turn, to move the row of openings in the receptacle into or out of registration with the row of passages in the comb.

A further object of the invention is to provide such a construction in which indicating means are provided on the receptacle and comb which will enable the user to determine whether or not the openings in the receptacle are in alignment with the passages in the comb.

Further objects and advantages of the invention will be apparent from the description and claims.

In the drawings, in which two forms of the invention are disclosed,

Figure 1 is a perspective view showing the fluid receptacle with the closure removed;

Fig. 2 is a perspective view showing the fluid receptacle and the telescoping closure therefor in alignment with each other;

Fig. 3 is a perspective view showing the cylindrical fluid receptacle and the fluid dispensing comb with which it is to be used in alignment with each other;

Fig. 4 is a side elevational view showing the fluid receptacle in position in the cylindrical chamber in the comb, parts being broken away;

Fig. 5 is an enlarged view of a portion of the comb and receptacle, showing the opening in the receptacle in alignment with the passages in the comb;

Fig. 6 is a transverse sectional view on the line 6—6 of Fig. 4, showing the openings in the receptacle turned out of alignment with the passages in the comb;

Fig. 7 is a view similar to Fig. 6 but showing the openings in the receptacle in alignment with the passages in the comb;

Fig. 8 is a fragmentary view showing the receptacle in position in the comb and showing the indicating means on the receptacle and comb for showing whether or not the openings in the receptacle are in registration with the passages in the comb;

Fig. 9 is a longitudinal sectional view in general corresponding to Fig. 5 but showing the passages of the comb leading from the receptacle to the tips of the teeth;

Fig. 10 is a cross sectional view of a different form corresponding in general to the cross sectional views of Figs. 6 and 7.

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Referring to the drawings in detail, and first to Figs. 1—8, inclusive, the construction shown comprises a cylindrical refill container 1 for fluid to be applied to the scalp, which container comprises a receptacle 1^a to be inserted endwise into a cylindrical chamber 2 in a comb 3, said comb having a longitudinally extending row of fluid passages 4 leading from the cylindrical chamber 2 for supplying fluid to the teeth 5 of the comb, said receptacle 1^a for the fluid having a longitudinally extending row of openings 6 leading therefrom, for movement into and out of registration with the row of passages 4 in the comb by relative rotational movement of the receptacle 1^a with respect to the comb when the container is inserted into the cylindrical chamber, said container having a removable closure 7, closed at one end 8 for closing the openings 6 leading from the receptacle 1^a by telescoping over the receptacle.

Any suitable material may be used for the receptacle, closure, and comb; for example, transparent plastic material. If transparent material is used, it enables the user to determine when the receptacle is about empty.

In use, the receptacle and closure or cover will be sold as a unit, the receptacle being filled with the fluid in any suitable manner and closed at both ends and the cover closure being then slipped on over the receptacle. The user, having acquired the comb and a closed receptacle filled with a suitable filling, will remove the cover from the receptacle, taking care to hold the receptacle in horizontal upright position so that the fluid will not leak, and will then hold the comb 3 and receptacle 1^a both in horizontal position, inserting the receptacle into the cylindrical chamber in the comb.

In order to determine whether or not the openings 6 in the receptacle are in alignment with the passages 4 in the comb, indicating means are provided on the receptacle and comb. The indicating means shown comprise two arrows 9 and 10 spaced perhaps 180 degrees apart on the outer end of the receptacle, one being marked "closed" and the other being marked "open," and an index 11 on the comb with which either of the arrows on the receptacle may be brought into registration. When the "closed" arrow is brought into registration with the index, the opening in the receptacle will be out of registration with the passages in the comb. When the "open" arrow is in alignment with the index, the openings in the receptacle will be in alignment with the passages in the comb.

The construction shown in Fig. 9 is substantially the same as that shown in Figs. 1—8, inclusive, except that here the passages 4 in the comb 3 lead to the tips of the teeth 5 of the comb, whereas in Figs. 1—8, inclusive, the passages lead to a position adjacent the inner ends of the teeth of the comb.

The construction shown in Fig. 10 comprises a fluid receptacle or cartridge 12 corresponding to the fluid receptacle or cartridge 1 previously described, but closed at both ends, provided with openings 13 corresponding to the openings 6 of the receptacle or cartridge 1^a and provided with a closure 14 slidable in a dovetail groove in the receptacle corresponding in function to the telescoping closure member 7 of Figs. 1 and 2. The upper end of the comb 15 has a dovetail formation 16 which can be inserted into the dovetail groove in the receptacle when the closure member 14 is removed. The comb is provided with passages 17 similar to the passages 4 of the comb previously described, which passages may be brought into and out of registration with the openings 13 in the receptacle 12 by a slight longitudinal movement of the comb with respect to the receptacle. If desired, suitable indicating means may be provided to show when the passages are in alignment with the openings.

Further modifications will be apparent to those skilled

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in the art and it is desired, therefore, that the invention be limited only by the scope of the appended claims.

Having thus described the invention, what is claimed and desired to be secured by Letters Patent is:

1. An elongated liquid container for use with a comb having an elongated back and teeth projecting therefrom and laterally separated liquid passages in the back leading to the teeth, said back having an elongated slidable connection portion extending longitudinally thereof; said elongated liquid container having an elongated slidable connection portion extending longitudinally thereof, shaped in cross section for slidable engagement with said comb slidable connection portion, and having laterally separated liquid passages therein for connection and disconnection with said first liquid passages by relative movement of said container and comb, and a cover for closing the openings in said liquid container having an elongated slidable connection portion similar in cross section to the cross section of the slidable connection portion of said back, for slidable engagement and disengagement with respect to said container slidable connection portion for closing and opening the openings in said container, one after another as the cover slides with respect to the container.

2. An elongated liquid container for use with a comb having an elongated back and teeth projecting therefrom and laterally separated liquid passages in the back leading to the teeth, said back having an elongated slidable internally cylindrical connection portion extending longitudinally thereof; said elongated liquid container having an elongated slidable externally cylindrical connection portion extending longitudinally thereof, shaped in cross section for slidable engagement with said comb slidable connection portion, and having laterally separated liquid passages therein for connection and disconnection with said first liquid passages by relative movement of said container and comb, and a cover for closing the openings

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in said liquid container having an elongated slidable internally cylindrical connection portion similar in cross section to the cross section of the slidable connection portion of said back for slidable engagement and disengagement with respect to said container slidable connection portion for closing and opening the openings in said container, one after another as the cover slides with respect to the container.

3. An elongated liquid container for use with a comb having an elongated back and teeth projecting therefrom and laterally separated liquid passages in the back leading to the teeth, said back having an elongated slidable externally dovetailed connection portion extending longitudinally thereof; said elongated liquid container having an elongated slidable internally dovetailed connection portion extending longitudinally thereof, shaped in cross section for slidable engagement with said comb slidable connection portion, and having laterally separated liquid passages therein for connection and disconnection with said first liquid passages by relative movement of said container and comb, and a cover for closing the openings in said liquid container having an elongated slidable externally dovetailed connection similar in cross section to the cross section of the slidable connection portion of said back, for slidable engagement and disengagement with respect to said container slidable connection portion for closing and opening the openings in said container, one after another as the cover slides with respect to the container.

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