April 17, 1956 H. J. SHAPIN 2,741,842

COMBINED COMB AND HAIR CUTTING DEVICE

Filed Feb. 28, 1955

Fig. 1.

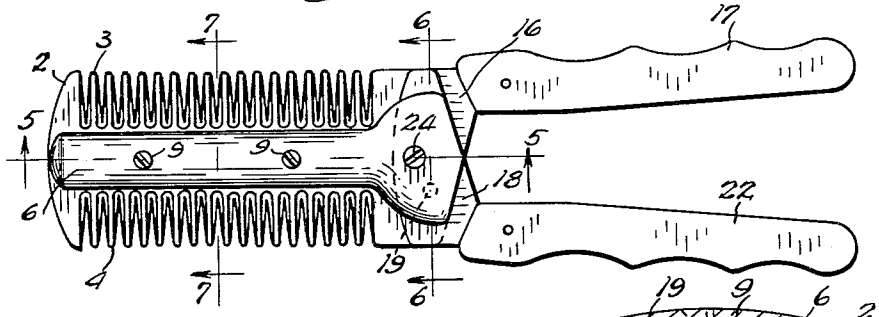


Fig. 6.

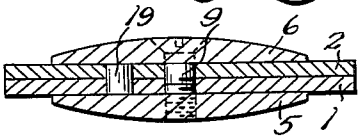


Fig. 2.

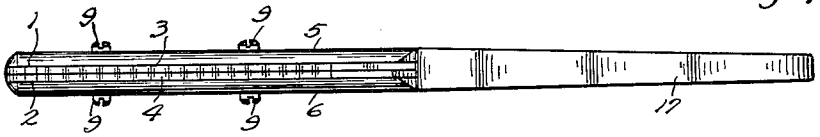


Fig. 3

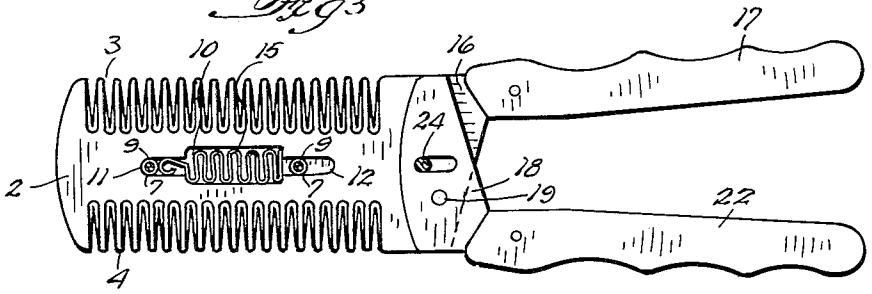


Fig. 4.

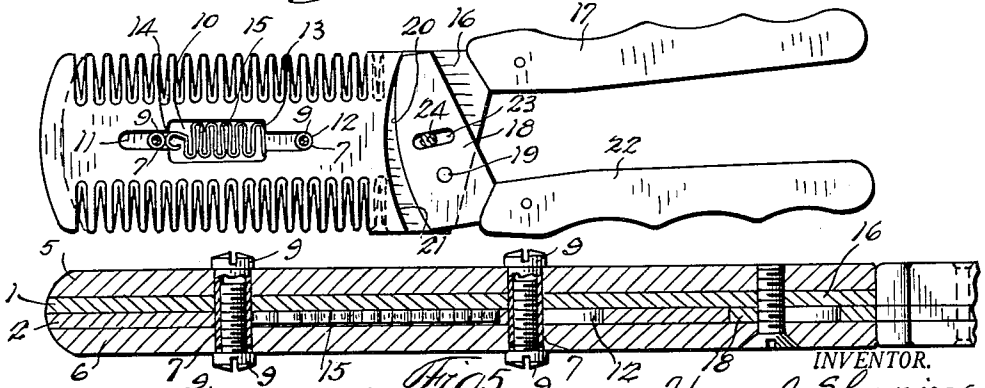


Fig. 5.

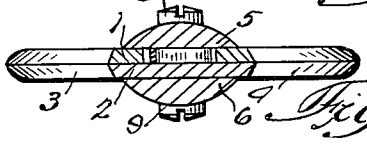


Fig. 7.

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COMBINED COMB AND HAIR CUTTING DEVICE

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5 Claims. (Cl. 30—212)

This invention relates to a combined comb and hair cutting device and, more particularly, to a device of the type that can be used effectively to thin hair as well as cut it.

Devices of this type as heretofore constructed have been relatively complicated and expensive to make. The purpose of this invention is to provide a construction that is simple and of few parts. Essentially, the construction consists of two teeth bearing planar members held in a simple fashion by two clamping members provided with pins that ride in a slot in one of the planar members. These pins are anchored in the other planar member as well as in the clamping members. A simple form of spring is disposed in the slot. This spring is not only held in the slot, but the spring and slot are concealed by one of the clamping members. In addition to these few parts, a handle is provided for each planar member. A cam plate is pivoted to one of the planar members and is connected to one of the handles which, when operated with the other handle, causes the cam plate to reciprocate the other planar member to effect a cutting action of teeth carried along both edges of the planar members. The arrangement of these parts uniquely permits the comb and cutting teeth to be employed along both edges of the planar members so that the device may be advantageously used as both a comb and a cutting implement at the same time, which is highly desirable in trimming hair.

Other objects and advantages of the invention will be apparent from the following detail description when taken in connection with the accompanying drawing.

In the drawing:

Figure 1 is a side elevation of a device embodying the invention;

Fig. 2 is a top view of the same;

Fig. 3 is a view similar to Fig. 1 but with one of the clamping members removed;

Fig. 4 is a view similar to Fig. 3 but illustrating the cutting action of the teeth;

Fig. 5 is an enlarged sectional view taken along line 5—5 of Fig. 1;

Fig. 6 is an enlarged transverse sectional view taken along line 6—6 of Fig. 1; and

Fig. 7 is a cross sectional view taken along line 7—7 of Fig. 1.

Referring to the drawings, a combined comb and hair cutting device is illustrated that comprises essentially two planar members 1 and 2, each having teeth 3 and 4 along their longitudinal edges. These teeth are formed in a manner to permit the teeth of one planar member to coact with the teeth of the other planar member to effect a shearing or cutting action. Both planar members are held together in face-to-face relation by a pair of clamping members 5 and 6. These clamping members 5 and 6 are formed to lie centrally along the outside faces of planar members 1 and 2 and are held by fastening members in the form of pins or the like.

A simple arrangement resides in the use of internally

threaded sleeves 7 passing through not only the planar members 1 and 2, but also the clamping members 5 and 6 and with screws 9 threading at both ends into sleeves 7. Planar member 2 is preferably provided with an elongated slot 10 having reduced extensions 11 and 12 for receiving the sleeves 7 and screws 9. A spring 15 is disposed in slot 10. One of the ends of spring 15 abuts against end wall 13 of slot 10. The other end of spring 15 is curved as indicated at 14 and is adapted to ride in slot extension 11 when the spring restores planar members 1 and 2 to their original position after a cutting operation.

Planar member 1 has an extension 16 to which handle 17 is connected. A cam plate 18 is pivoted at 19 to the inside face of extension 16. Cam plate 18 is provided with a curved face 20 that is adapted to ride along a corresponding curved face 21 on planar member 2. A handle 22 is secured to cam plate 18. Slot 23 permits cam plate 18 to ride on a pin 24 adapted to be anchored in clamping member 6, extension 16 and the opposite clamping member 5.

The closing or moving together of the handles 17 and 22 causes cam plate 18 to swing about its pivot 19 and pin 24, thereby causing it to force planar member 2 forwardly and compress spring 15, this position being shown in Fig. 4. Such action or reciprocating movement of planar member 2 effects a shearing or cutting action by the teeth 3 and 4 of both planar members 1 and 2. When handles 17 and 22 are released, spring 15 restores planar member 2 to its original position, shown in Fig. 3. Sleeves 7 and screws 9 will ride in the reduced extensions 11 and 12 of slot 10. It will be observed that clamping member 6 also serves as a a closure for slot 10 to keep spring 15 in place. The simple arrangement of the parts permits the use of teeth along both edges of the device so that it may be used at the same time to comb and to cut hair by merely manipulating the two handle members.

Without further elaboration, the foregoing will so fully explain the character of my invention that others may, by applying current knowledge, readily adapt the same for use under varying conditions of service, without eliminating certain features, which may properly be said to constitute the essential items of novelty involved, which items are intended to be defined and secured to me by the following claims.

I claim:

1. In an implement of the type described, two planar members each having teeth along opposite longitudinal edges, one of said planar members having an extension at one end, a handle secured to said extension, a cam plate corresponding to said extension disposed in abutting coplanar relation with said other planar member, the edges of said other planar member and said cam plate abutting over a substantial length, means to pivotally connect said plate to said extension, a handle on said plate for actuating the same about its pivotal connection whereby to provide relative reciprocating movement between said planar members, a pair of clamping members for holding said planar members together, connecting devices for said clamping members, said connecting devices including pins extending therethrough and through said planar members, one of said planar members having slot means therein in which said pins ride, and a spring disposed in said slot means between one of said pins and said one planar member to restore said planar members to their original position after relative reciprocating movement by said cam plate.

2. In an implement of the type described, two planar members and a handle for each adapted to provide relative reciprocating movement between said planar members when the handles are gripped and moved back and forth, said planar members being provided with teeth for use as

a hair comb when said planar members are not reciprocated and as hair cutting elements when said planar members are reciprocated, one of said planar members having a slot therein with reduced extensions at opposite ends, a spring in said slot extending into one of said extensions to restore said planar members to their original position after relative reciprocating movement by movement of said handles, pins extending through said reduced extensions of said slot, and a pair of clamping members for holding said planar members in face-to-face relation, said pins being secured to said clamping members, one of said clamping members acting as a closure for said slot.

3. In an implement of the type described, two overlying planar members each having teeth along opposite longitudinal edges, one of said planar members having a handle forming extension at one end, a cam plate corresponding to said extension disposed in abutting coplanar relationship with said other planar member, the edges of said other planar member and said cam plate abutting over a substantial length, means to pivotally connect said plate to said extension, said plate defining a handle for actuating the same about its pivotal connection whereby to provide relative reciprocating movement between said planar members, a pair of clamping members for holding said planar members together, connecting devices for said clamping members, said connecting devices including pins extending therethrough and through said planar members, one of said planar members having slot means therein in which said pins ride, and a spring disposed in said slot means between one of said pins and said one planar member to restore said planar members to their original position after relative reciprocating movement by said cam plate.

4. In an implement of the type described, two overlying planar members each having teeth along opposite longitudinal edges for use as a hair comb when said planar members are relatively fixed and as hair cutting elements when said planar members are reciprocated, one of said planar members having a handle forming extension at one end, a cam plate corresponding to said extension disposed in abutting coplanar relationship with said other planar member, the edges of said other planar member and said cam plate abutting over a substantial

length, means to pivotally connect said plate to said extension, said plate defining a handle for actuating the same about its pivotal connection whereby to provide relative reciprocating movement between said planar members, a pair of clamping members for holding said planar members together, connecting devices for said clamping members, said connecting devices including pins extending therethrough and through said planar members, one of said planar members having slot means therein in which said pins ride, and a spring disposed in said slot means between one of said pins and said one planar member to restore said planar members to their original position after relative reciprocating movement by said cam plate.

5. In an implement of the type described, two overlying planar members each having teeth along opposite longitudinal edges for use as a hair comb when said planar members are relatively fixed and as hair cutting elements when said planar members are reciprocated, one of said planar members having a handle forming extension at one end, a cam plate corresponding to said extension disposed in abutting coplanar relationship with said other planar member, the edges of said other planar member and said cam plate abutting over a substanital length, means to pivotally connect said plate to said extension, said plate defining a handle for actuating the same about its pivotal connection whereby to provide relative reciprocating movement between said planar members, one of said planar members having a slot therein with reduced extensions at opposite ends, a spring in said slot extending into one of said extensions to restore said planar members to their original position after relative reciprocating movement by movement of said handles, pins extending through said reduced extensions of said slot, and a pair of clamping members for holding said planar members in face-to-face relation, said pins being secured to said clamping members, one of said clamping members acting as a closure for said slot.

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