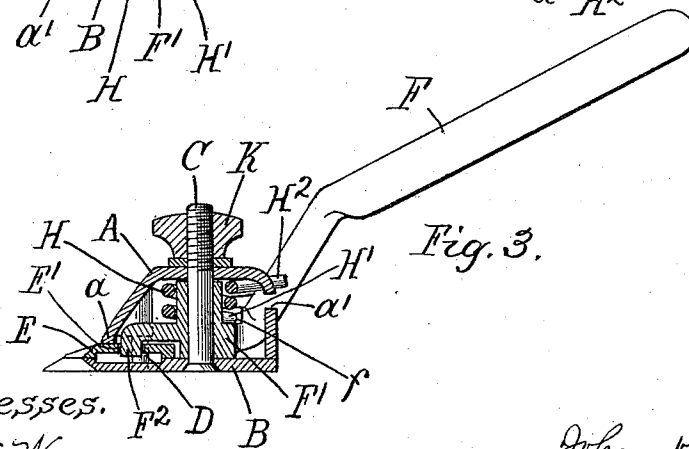
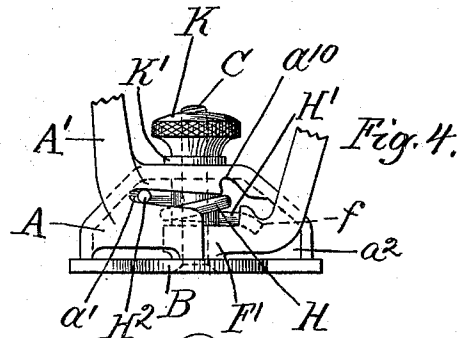
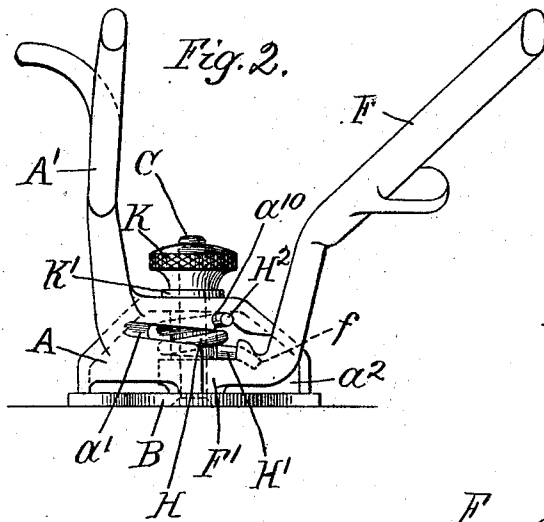
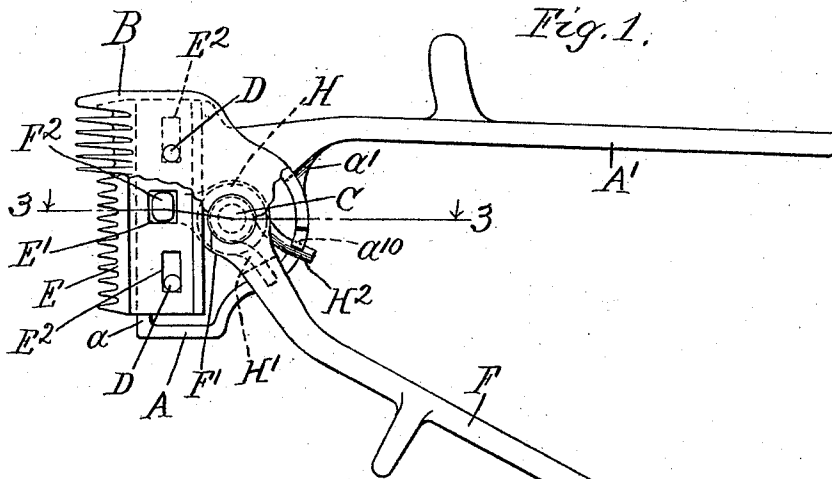


(No Model.)

J. K. STEWART.
HAIR CLIPPER.

No. 534,926.

Patented Feb. 26, 1895.



Witnesses.
E. J. Wray.
Paul Elliott.

Inventor
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Attorneys.
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Associate Attorney.

UNITED STATES PATENT OFFICE.

JOHN K. STEWART, OF CHICAGO, ILLINOIS.

HAIR-CLIPPER.

SPECIFICATION forming part of Letters Patent No. 534,926, dated February 26, 1895.

Application filed December 1, 1894. Serial No. 530,546. (No model.)

To all whom it may concern:

Be it known that I, JOHN K. STEWART, a citizen of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Hair-Clippers, which are fully set forth in the following specification, reference being had to the accompanying drawings, forming a part thereof.

In the drawings, Figure 1 is a bottom or inverted plan of my improved hair clipper, showing a comb or fixed plate partly broken away to disclose parts which would otherwise be concealed by it. Fig. 2 is a rear elevation. Fig. 3 is a section at the line 3—3 on Fig. 1. Fig. 4 is a rear elevation showing the spring released from tension.

The specific purpose of this invention is to provide means in a hand clipper for readily taking the tension off of the spring so that the parts may be assembled and disassembled without being under tension in any respect, and so that the spring may be quickly relieved from tension for the purpose of disassembling and quickly put under tension after assembling.

A is the body or fixed part having one of the handles hereinafter termed the fixed handle A'. The comb B is held fixed with respect to the body by the central pivot bolt C and the studs D D, which are rigid with the body and constitute the guides for the cutter E in its reciprocating motion.

F is the vibrating handle. It has the pivot boss F' which constitutes the bearing of said handle on the pivot bolt C and it terminates in the tooth or lug F² which engages the reciprocating knife or cutter plate E at the slot E' in the latter in order to reciprocate the same.

The body A terminates in the lip α which is the upper guard for the reciprocating cutter, which is thus retained between said lip and the comb-plate B while it is guided in its reciprocation by the studs D D in the slots E³ E².

H is the spring. It is a cylindrical spiral coiled about the pivot bolt C and, as illustrated, is made up of substantially two complete coils. The end H' is suitably bent or hooked to adapt it to lodge and engage in a

suitable recess in the vibrating handle as shown at f .

The body A which constitutes the housing for the pivot boss of the movable handle and for the spring has the rear opening a^2 through which the movable handle emerges and in which it oscillates, and it has also in the rear wall of such housing the slot a' extending from the opening a^2 toward the root of the fixed handle A' and inclined slightly downward from said root, the upper side of said slot merging in the upper edge of the opening a^2 . In this upper edge, which is thus the upper edge of the inclined slot a' , I form a notch a^{10} adapted to receive the upper out-turned end H² of the spiral spring H as the slot a' is also adapted to serve as a path for said upper out-turned end when it is dislodged from the notch a^{10} and left free to move under the tension of the spring. The spring is coiled so that when the end H² stands at the end of the slot a' the other end H' being suitably lodged in the notch f the spring is not under tension, and when said end H² is forced away from the handle A' the spring is put under tension and when it has been forced far enough so that it can lodge in the notch a^{10} the tension is sufficient for the operation of the device. The downward incline of the upper edge of the notch a^{10} causes the spring also to be put under sufficient tension in the direction of its axis to cause the end H² to snap up into the notch as soon as it reaches it. With this construction the parts may be assembled freely, that is, without regard to the elastic character of the spring, since it may be put in place without tension. The end H' being lodged in the notch f , and the handle F, with the spring thus lodged, being then placed in position with its boss F' and the spring within the housing of the body A, the cutter will be then placed on the guides D and with its slot E' suitably engaged with the lug F², and the comb will be then placed in position on the studs D, the pivot bolt C inserted from the bottom side through all the parts and secured by the thumb-screw K between which and the top of the housing a spring washer K' may be interposed to keep the joint properly snug without binding positively. As thus assembled the end H² of the

spring will stand at the extremity of the notch a^{10} in the housing of the body A. The thumb or any suitable implement being then used to engage by hand the protruding end H^2 , said end will be passed along the inclined slot until it snaps into the notch a^{10} , whereby the spring will be put under tension and the device will be ready for use.

I claim—

- 10 1. In a clipper in combination with the body, a pivoted handle and the cutter suitably connected thereto and adapted to be actuated thereby, a spring coiled about the pivot and engaged at one end with the fixed handle, the
15 body having the slot a' adapted to accommodate the unsecured end of the spring when the latter is not under tension, and the notch a^{10} in one side of said slot in position and adapted to receive said end of the spring
20 when the latter is coiled to suitable tension, substantially as set forth.

2. In combination, substantially as set forth, with the body, the pivoted handle and the cutter actuated thereby, the spring coiled about the pivot and engaged at one end with
25 the pivot handle, the body having the inclined slot a' and the notch a^{10} at the lower end of said incline, the spring having its unsecured end adapted to protrude through the body at
30 such slot and to be free from tension when said end is at the end of the slot and to be under tension when it is engaged with the notch.

In testimony whereof I have hereunto set my hand, in the presence of two witnesses, at
35 Chicago, Illinois, this 28th day of November, 1894.

JOHN K. STEWART.

Witnesses:

J. P. BUTLER,
MYRON ZARUBA.