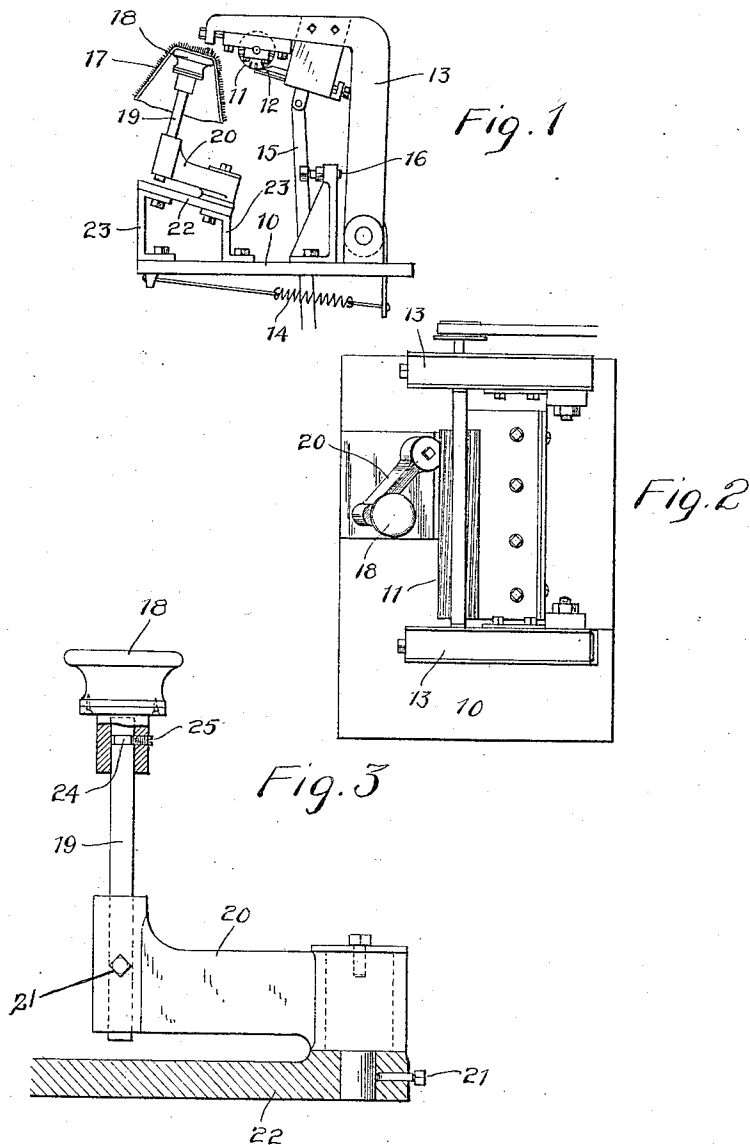


J. H. STARR.
HAT TIP CLIPPING MACHINE.
APPLICATION FILED MAR. 20, 1912.

1,059,687.

Patented Apr. 22, 1913.



WITNESSES:
H. W. Meady
S. W. Cutherton

INVENTOR
John H. Starr
BY
A. M. Proster
ATTORNEY

UNITED STATES PATENT OFFICE.

JOHN H. STARR, OF DANBURY, CONNECTICUT, ASSIGNOR TO E. A. MALLORY AND SONS, INCORPORATED, OF DANBURY, CONNECTICUT, A CORPORATION OF CONNECTICUT.

HAT-TIP-CLIPPING MACHINE.

1,059,687.

Specification of Letters Patent.

Patented Apr. 22, 1913.

Application filed March 20, 1912. Serial No. 685,137.

To all whom it may concern:

Be it known that I, JOHN H. STARR, a citizen of the United States, residing at Danbury, county of Fairfield, State of Connecticut, have invented an Improvement in Hat-Tip-Clipping Machines, of which the following is a specification.

This invention relates to hat tip clipping machines of the type illustrated and described in patent to Mallory, Number 998,191, dated July 18, 1911, and has for its object to modify and improve their construction. This I accomplish by mounting the hat holder to rotate on a standard carried by an arm which is adapted to swing in a plane more or less inclined to the horizontal plane of the machine, the advantage being that the holder may be swung entirely out of the way when not in use.

With this and other objects in view I have devised the novel improvement in hat tip clipping machines, which I will now describe, referring to the accompanying drawing forming a part of this specification and using reference characters to indicate the several parts.

Figure 1 is a side elevation of so much of an ordinary hat clipping machine as is necessary to illustrate the application thereto of the present invention, a hat body being shown in section on the holder; Fig. 2, a plan view corresponding therewith, the hat body being removed; and Fig. 3 is an elevation partly in section, on an enlarged scale, of the hat carrying mechanism detached.

The invention comprises an attachment which may be applied to ordinary hat body clipping machines by removing the body carrying mechanism and which will enable the operator to clip the tips of hat bodies uniformly and rapidly and without danger to the hands of the operator. In order that the operation of the attachment may be perfectly clear, I will briefly describe the essential parts of the clipping machine to which I have shown it applied. It should be understood, however, that the attachment is equally applicable to various other types of hat body clipping machines now on the market.

10 denotes the bed of the machine, 11 the clipping cylinder, 12 the bed knife, 13 a swinging frame by which the clipping mechanism is carried, 14 a spring by which the

frame is swung backward to normally retain the clipping mechanism out of operative position, 15 a rod extending to a treadle (not shown) by which the clipping mechanism is swung into operative position and 16 a stop screw for limiting the movement of the frame in swinging it into operative position. This adjustment determines the height of the cutting line and enables the operator to clip the long fur and hairs to any predetermined length.

The driving mechanism is not shown as specifically it forms no portion of the present invention.

17 denotes a hat body and 18 the holder therefor upon which the bodies are placed singly. This holder may be made of any suitable material, preferably of wood, and comprises a circular head having a flat top which is so shaped that when a hat body is drawn down over it, as in Fig. 1, the tip will be stretched out flat ready to be acted on by the clipping mechanism which is thus enabled to act effectively on the portion of a hat body that is not operated upon by an ordinary body clipping machine. The holder is carried by a standard 19 which is adapted to be vertically adjusted in a swinging arm 20 and is locked in position after adjustment by a set screw 21. The arm is pivoted to a plate 22 carried by brackets 23 rigidly secured to the bed. The brackets are of unequal height so as to place the table at a convenient incline to the horizontal plane of the machine. Thus when in inoperative position said holder is above the plane of the cutting mechanism, and in swinging the holder into operative position its path of movement will be forward and downward in an arc of a circle. The holder may be either rotatably or rigidly secured to the standard. I preferably, however, make the holder rotatable. In the present instance I have shown the holder as made in two parts or members which are rigidly secured together. The lower member comprises a sleeve which receives the upper end of the standard. The standard is provided with a groove 24 and the holder is rotatably secured thereto by means of a set screw in the lower member which engages the groove as clearly shown in Fig. 3.

The operation is briefly as follows: The operator pulls the hat body to be operated upon down over the holder firmly so as to

stretch out the tip as shown in Fig. 1. He then draws down upon the treadle rod and swings the clipping mechanism into operative position and then swings the holder forward and backward under the clipping mechanism as many times as may be required, partly rotating the holder with the hat body thereon on the standard (or the hat body on the holder should the latter be rigid) after each forward movement so as to change the position of the hat body relatively to the line of cut each time it is passed under the clipping mechanism, which insures the clipping of the entire tip effectively and uniformly.

Having thus described my invention, I claim:

1. In a hat clipping machine, the combination with clipping mechanism, of a table inclined to the plane of the machine, a swinging arm pivoted at one end to the lower end of the table, and a hat holder carried by the other end of said arm, movement of said arm when approaching the clipping

mechanism causing the holder to be moved forward and downward in a line tangential to said clipping mechanism.

2. In a hat clipping machine, the combination with clipping mechanism, of a table inclined to the plane of the machine, a swinging arm pivoted at one end to the lower end of the table, an upright standard adjustably supported in the free end of said arm, and a hat holder rotatably mounted upon said standard and supported above the plane of the clipping mechanism when in inoperative position, movement of said arm when approaching the clipping mechanism causing the holder to be moved forward and downward in a line tangential to said clipping mechanism.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN H. STARR.

Witnesses:

HARRY B. MALLORY,
FRANK E. WARREN.

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