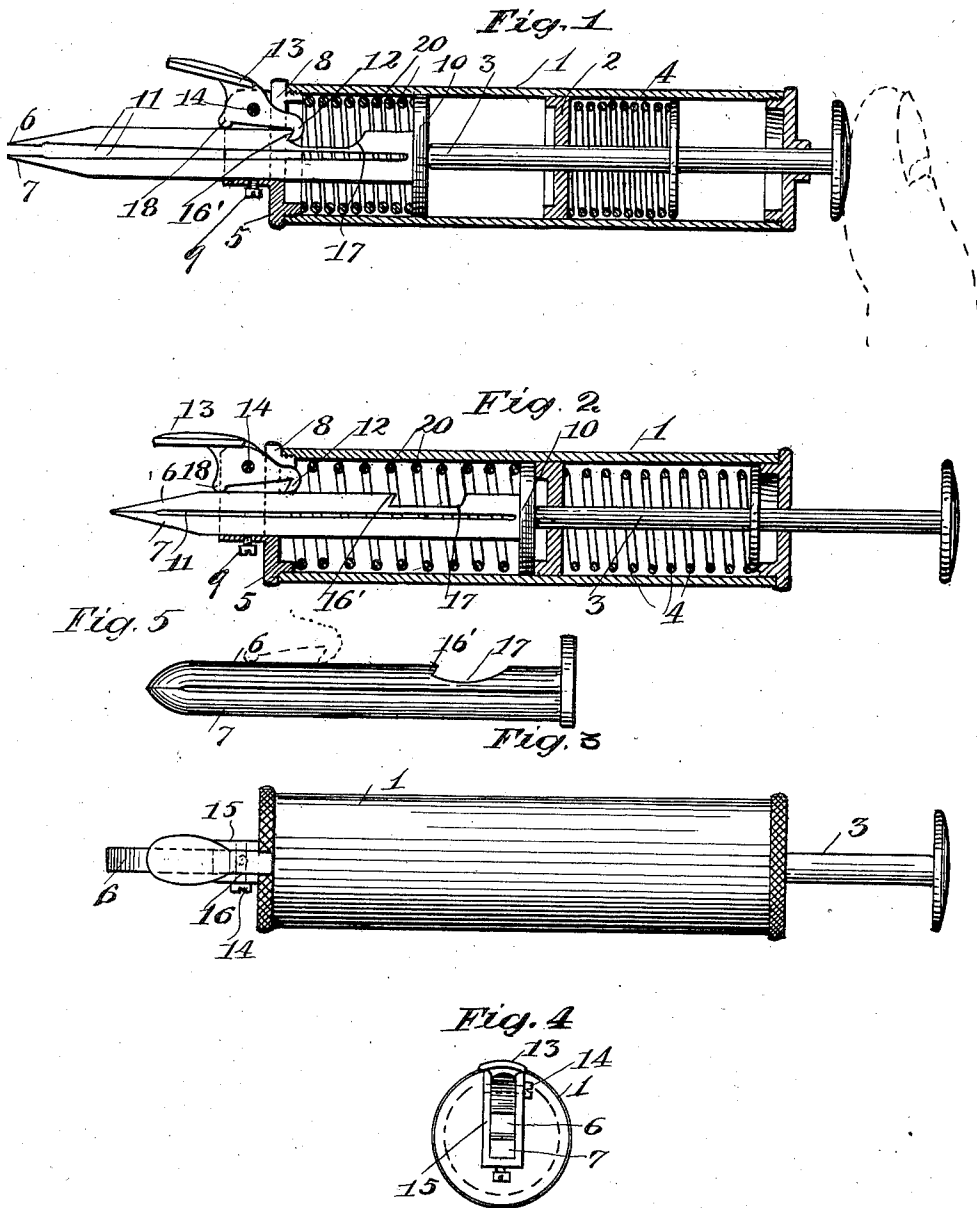


J. SABO.
 DEPILATOR.
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1,036,725.

Patented Aug. 27, 1912.



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UNITED STATES PATENT OFFICE.

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DEPILATOR.

1,036,725.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN SABO, a citizen of the United States, and resident of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Depilators, of which I hereby declare the following to be a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same.

The objects of the invention are to provide a device for pulling hair which will operate quickly and thereby painlessly and which can be manually operated, and which is capable of fine adjustment so as to be certain of obtaining the instantaneous grip upon the hair required to accomplish this purpose.

The invention comprises a case and a pair of gripping jaws therein capable of being projected and at the same time automatically slightly separated at the gripping edges; it also includes mechanism for retaining the jaws in the projected position and for releasing the jaws and simultaneously closing them together, and when released mechanism for automatically and quickly withdrawing them into the case.

The invention further comprises the combination and arrangement of the various parts and construction of the various details as hereinafter described, shown in the accompanying drawings and specifically pointed out in the claims.

In the accompanying drawings Figure 1 is a longitudinal central section showing the jaws protruded and opened ready to seize the hair; Fig. 2 is a similar view showing the jaws closed together and withdrawn into the case; Fig. 3 is a plan view of the device; Fig. 4 is an end view of the device; Fig. 5 is a side elevation of the jaws formed of steel rods.

In these views 1 is the case of cylindrical form having an inner stationary partition or bearing 2 through which the plunger 3 operates to force the jaws outward.

4 is the return spring for the plunger.

5 is a head through which the jaws pass. The tips of the jaws 6 and 7 respectively project through a slot 8 in the head 5 of the case. These jaws are secured to or integral with the disk shaped support 10, and are slightly separated at the tips so that when pressed together they will again separate by

the spring action of the metal compressing them.

The tips are arranged to close tightly together and to insure this action the inner edges of the jaws are cut away at 11, so that only the tips can strike against each other.

The jaws are projected by means of the plunger 3 which is forced against the center of the disk 10 and when completely extended they are temporarily retained in position by means of the dog 12 upon a trigger 13, pivoted at 14 upon the projecting bearing 15, which is slotted at 16 to receive the jaws and trigger. The dog 12 on the trigger engages the tooth 16' upon one of the jaws 6, so that the jaws will remain extended until released by the trigger.

The tooth is preferably formed by making a recess 17 in the edge of the jaw 6 and this recess is made deep enough and is extended far enough along the jaw to make it resilient so that it can be depressed to close tightly at the tip upon the other jaw. This result is obtained at the moment of releasing the jaws by means of a cam edge 18 upon the trigger which forces down the jaw 6 simultaneously with the lifting of the dog 12.

The outer edges of the jaws are perfectly smooth and are strictly parallel when closed so as to slide easily in the slot in the head 5 and bearing 15, and when closed together the return spring 20 pressing against the head 5 and disk 10 will instantly withdraw them into the case.

In operation the jaws are first projected to the position shown in Fig. 1 and are then placed over the hair to be pulled. The trigger is then pressed to release the dog and at the same time the cam forces the jaw 6 down upon the hair and upon the other jaw until the hair is firmly gripped between them and almost instantaneously the spring 20 will withdraw the jaws and remove the hair, as soon as the edges of the jaws become parallel and when the jaws exert their greatest gripping power. The spring 20 is heavy enough to act so promptly that the hair will be pulled practically without pain.

The upper jaw 6 is preferably formed of spring metal and its spring action against the trigger serves to throw down the dog 12 into contact with the tooth 16'.

A set screw 9 is shown in the figures which is employed to adjust accurately the distance between the cam 18 and the lower

jaw 7 so as to make it certain that the upper jaw will be pressed down far enough to grip the hair before the dog 12 releases the jaws.

5 In Fig. 5 the jaws 6 and 7 are shown formed of steel rods, which have been bent over at the ends and filed into perfect gripping contact.

10 Having described the invention what I claim as new and desire to secure by Letters Patent is:

1. In combination with a case having a slotted head, a pair of jaws having gripping tips projecting through said slot in said 15 head, a sliding support to which the inner ends of said jaws are rigidly secured, means for projecting said jaws, automatically acting means for returning said jaws to the case, a temporary retaining means for the 20 jaws when extended, said jaws normally separated at the tips when projected, and one of said jaws having a resilient part, and means for depressing said resilient jaw to bring the jaw tips together, said depressing 25 means serving to bring the jaws into parallel relation to each other, said temporary retaining means arranged to release said jaws when they are tightly closed together.

2. In combination with a case, a pair of 30 jaws having their tips projecting therefrom, a sliding support in the case to which said jaws are secured at their inner ends, one of said jaws being depressible and provided with a tooth, a trigger pivoted in said case, a 35 dog thereon, adapted to engage said tooth when said jaws are extended, said jaws being separated at the tips when drawn out, a cam on said trigger adapted to depress said depressible jaw, as said dog is released 40 from said tooth, the action of said cam serving to tightly close said jaws together before the said release takes place, and a return spring for said jaws and their support.

3. In combination with a case, a head 45 therefor having an opening, pair of jaws

longitudinally movable in said opening, a sliding support therefor in said case to which said jaws are attached, a spring adapted to return the jaws in the case after being extended, a trigger pivoted in said 50 head and a dog thereon, a tooth in one of said jaws which said dog engages when said jaws are extended, said jaws automatically separating at their tips when extended, said toothed jaw being depressible, a cam on said 55 trigger adapted to depress said depressible jaw to close the same on the other jaw, the further action of said trigger releasing said dog from said tooth, and permitting the said return spring to withdraw the closed jaws 60 into the case.

4. In combination, in a depilator, a closed case having an opening in one end, a pair of jaws therein projecting through said case at their outer ends, a sliding support to 65 which the inner ends of said jaws are attached, one of said jaws adapted to spring away from the other jaw when the jaws are projected, means for forcing said jaws outwardly to assume an open position, said 70 spring jaw provided with a tooth, an automatically acting means for returning said jaws into said case, a trigger provided with a dog adapted to engage said tooth when said jaws are projected from said case, and 75 temporarily retain the same, and a cam on said trigger engaging said spring jaw and adapted to depress the same to closely engage the other jaw, the said dog on said trigger positioned to release said tooth on said 80 spring jaw when said jaws are in close engagement, and a set screw in said case adapted to regulate the distance between said jaws.

In testimony whereof, I hereunto set my 85 hand this 29th day of May 1911.

JOHN SABO.

In presence of—

WM. M. MONROE,
GEO. S. COLE.