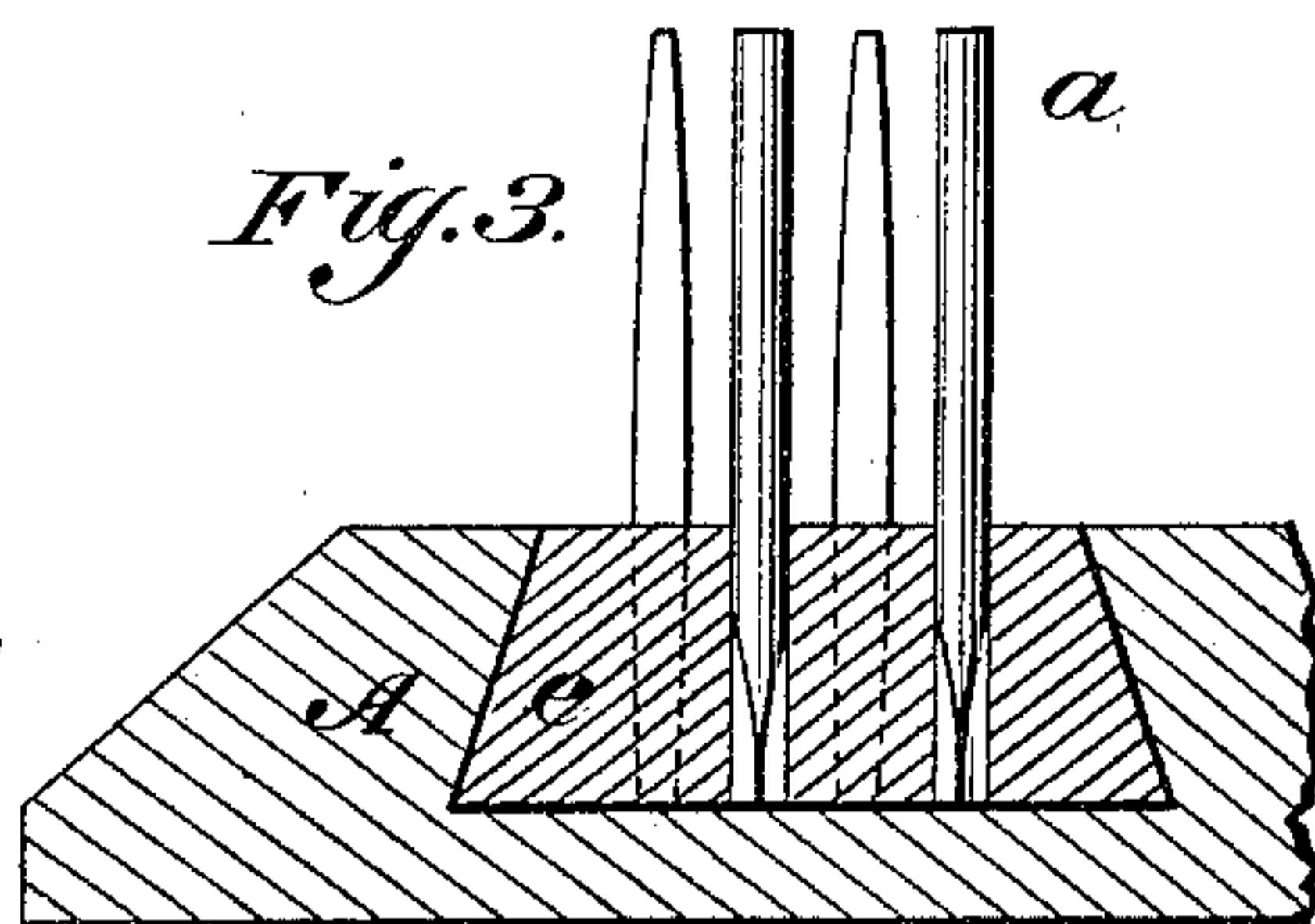
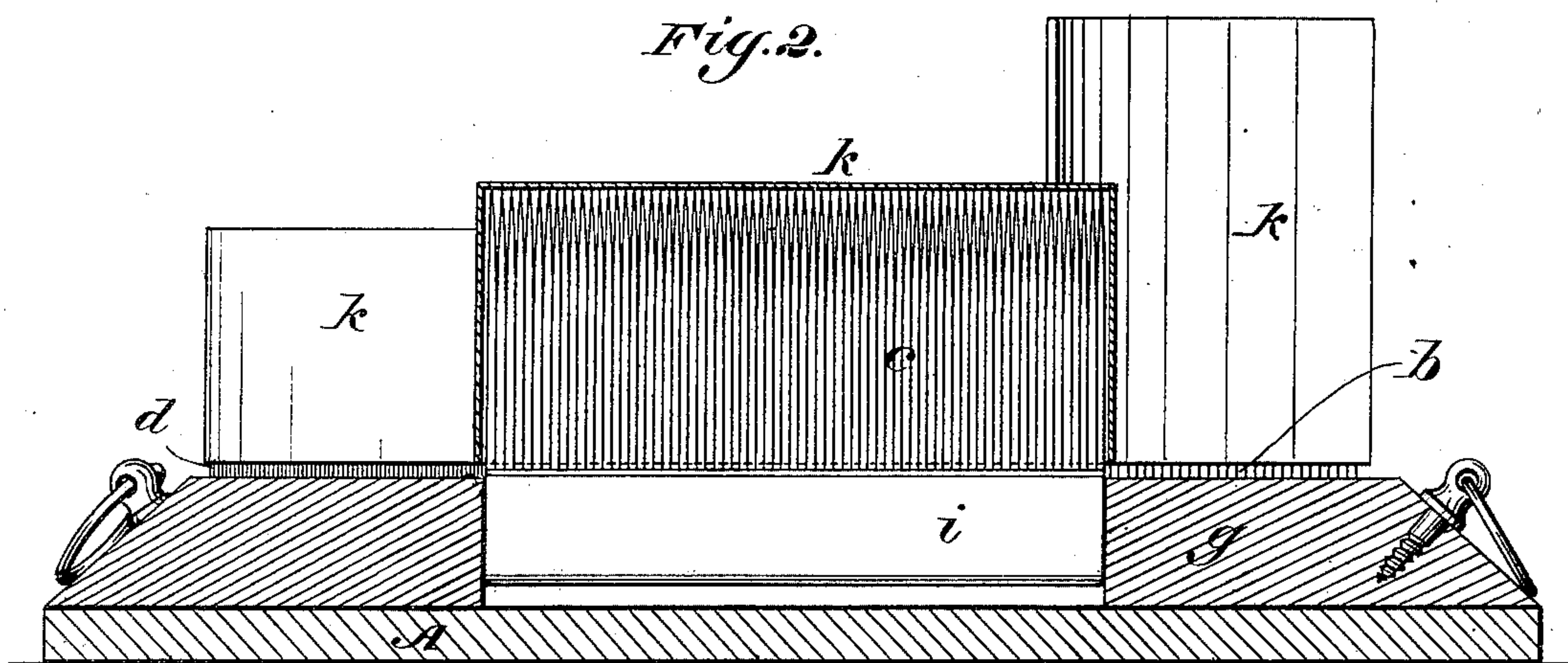
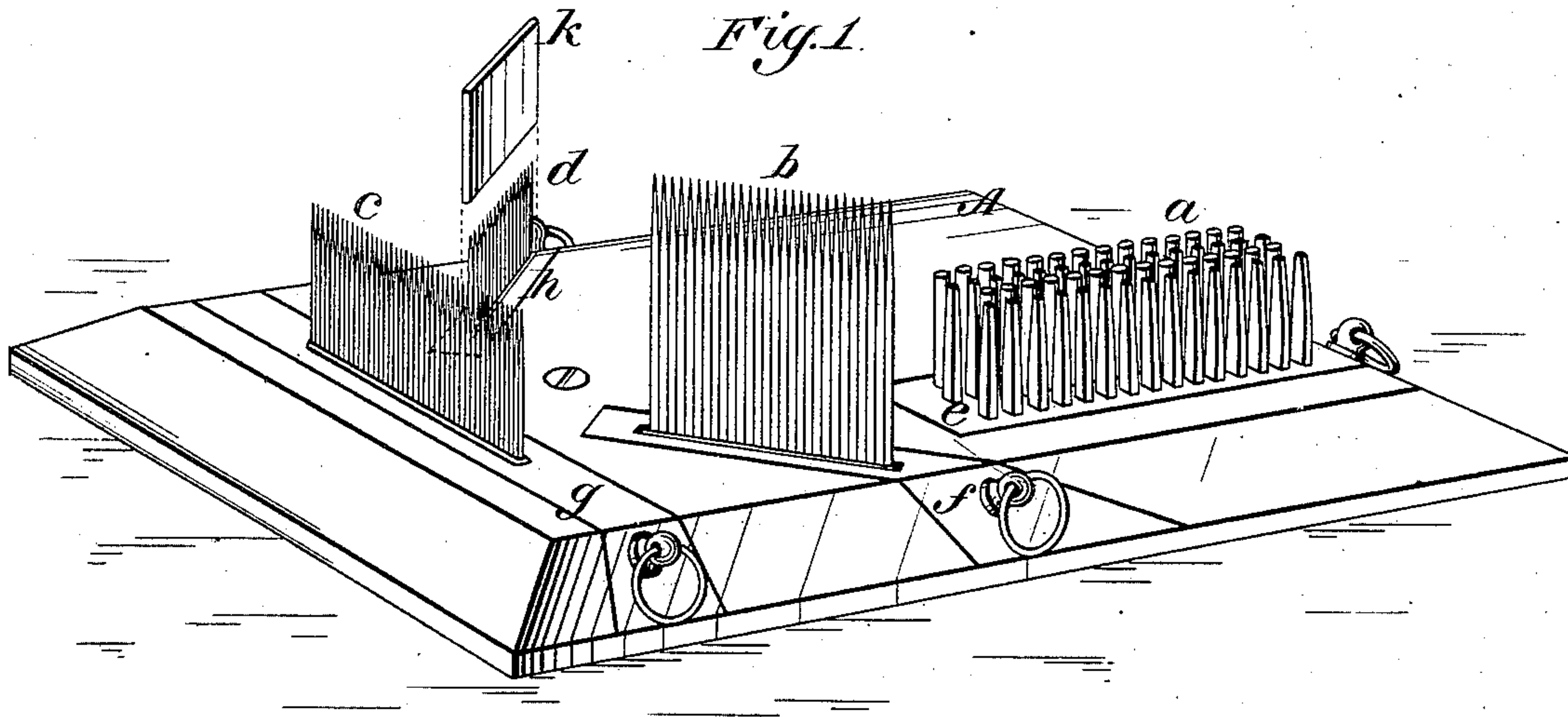


(No Model.)

A. D. CHENEY.  
Hatcheling Device.

No. 231,998.

Patented Sept. 7, 1880.



WITNESSES:

*Donn P. Twitchell.*  
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INVENTOR:

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BY

*Mum & Co*

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# UNITED STATES PATENT OFFICE.

AARON D. CHENEY, OF THREE OAKS, MICHIGAN.

## HATCHELING DEVICE.

SPECIFICATION forming part of Letters Patent No. 231,998, dated September 7, 1880.

Application filed April 5, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, AARON D. CHENEY, of Three Oaks, in the county of Berrien and State of Michigan, have invented a new and Improved Apparatus for Hatcheling, Gumming, and Rooting Snarled and Tangled Hair, of which the following is a specification.

My improvements relate to apparatus for hatcheling or straightening and removing the gummy matter and roots from hair-combings or other snarled and tangled hair, the object of the invention being to facilitate the work named.

My invention consists in a bed or table fitted with hatcheling and combing teeth arranged in a peculiar manner. These teeth are carried by blocks fitted to slide in the bed to allow change or removal of the teeth and the substitution of fine and coarse teeth one for the other, as required.

The construction and operation will be more particularly explained with reference to the accompanying drawings, wherein—

Figure 1 is a perspective view of the apparatus. Fig. 2 is a cross-section of the same, and Fig. 3 is a sectional view in larger size of the hatchel.

Similar letters of reference indicate corresponding parts.

A is the bed, which is to be screwed fast to a suitable table, stand, or support, and carries the hatchel *a* and combs *b*, *c*, and *d*. The hatchel and comb teeth are sustained in blocks *e*, *f*, *g*, and *h*, that are fitted in dovetail grooves or mortises of the bed A, so that they may be removed from the bed when desired.

The teeth of the hatchel *a* are arranged in four parallel rows with the required number in each row, two rows being of round teeth and two of flat teeth placed alternately. These teeth are secured in place by being driven through holes in the block, so that they may be adjusted as required.

The comb *b* is for gumming the hair, and is fitted in a diagonal position at the left of the hatchel as the operator stands.

*c* is the coarse rooting-comb, placed across the end of bed A, and *d* is the fine rooting-comb, placed at the opposite side of bed A in a diagonal position. This arrangement of the

combs gives the greatest facility for the successive operations, especially if more than one operator is at work with the apparatus.

The teeth of the combs *b c d* are needle-pointed, and are soldered or otherwise secured at their lower ends between metal strips *i*, that are fitted in slots in their respective blocks *f g h*, so that the teeth may be removed from the blocks for cleaning or the substitution of others.

In using the apparatus the operator stands facing the hatchel *a*, and holding the hair in the right hand draws it toward him through the teeth of the hatchel. In the same manner the hair is drawn through the gummer *b*, the teeth of which remove the gummy matters and dirt.

In using the rooting-comb *c* the operator stands at the end of bed A, and taking the hair in small locks draws it through the comb, at the same time pressing the hair toward the base of the comb with the left hand, so that the teeth will remove the roots. If the fine rooter *d* is required the operator stands at the back of the bed, or the block *h* and comb *d* may be put in place of comb *b* and the operator stand in front of the machine.

The blocks *e f g h* are each fitted with a ring, as shown, for use in drawing the block out, and when two persons are working on the same machine these blocks may be drawn out partially, so as to give more room for working.

I provide metal caps *k* for covering the combs when not in use to keep them clean and preserve the teeth from injury.

By the use of this apparatus the work of hatcheling, gumming, and rooting tangled hair can be readily and quickly done.

The hatchel-teeth are arranged in four parallel rows, two of fifteen round and two of fourteen flat teeth, placed alternately in the block and secured by being driven through holes, so as to be adjustable for cleaning or putting in new teeth. The round teeth keep the hair from being cut or broken, causing it to separate as it is drawn through. The flat teeth receive the knotty and matted hair as thrown off from the rounded teeth and hold it while the good hair is drawn through, also

causing the hair to be drawn down toward the base and keeping it from slipping off the hatchel.

5 The object of the alternate arrangement is as follows: The teeth occupy three and three-fourths inches in length of the hatchel-block, or a little less than a hand's breadth, so as to admit of being just covered with one hand. As you face the apparatus the hair is taken in  
10 the left hand and put over the teeth, while with the right hand it is pulled down and toward the operator, the left hand pressing it down at back and base of hatchel. By placing the flat teeth in alternate rows they catch  
15 the bunches of knotted or matted hair thrown off by the round teeth and hold the same while the good hair is being drawn through, the teeth being set close enough not to allow any hair to pass with bunches or knots in it.

20 Having thus described my invention, I claim

as new and desire to secure by Letters Patent—

1. The apparatus for hatcheling, gumming, and rooting hair, consisting of the bed A, provided with the sliding blocks *e f g h*, that carry  
25 the hatchel *a* and combs *b c d*, combined for use substantially as shown and described.

2. In combination with the fixed bed A, the blocks *e, f, g*, and *h*, fitted to slide in the bed A, and the hatchel *a* and combs *b c d*, fitted  
30 removably in the sliding blocks, substantially as and for the purposes set forth.

3. The hatchel *a*, consisting of flat and round teeth placed in alternate rows in the block *e*, combined with the bed A, substantially as  
35 shown and described.

AARON DANIEL CHENEY.

Witnesses:

EDWIN H. VINCENT,  
ISAIAH RYNEARSON.