

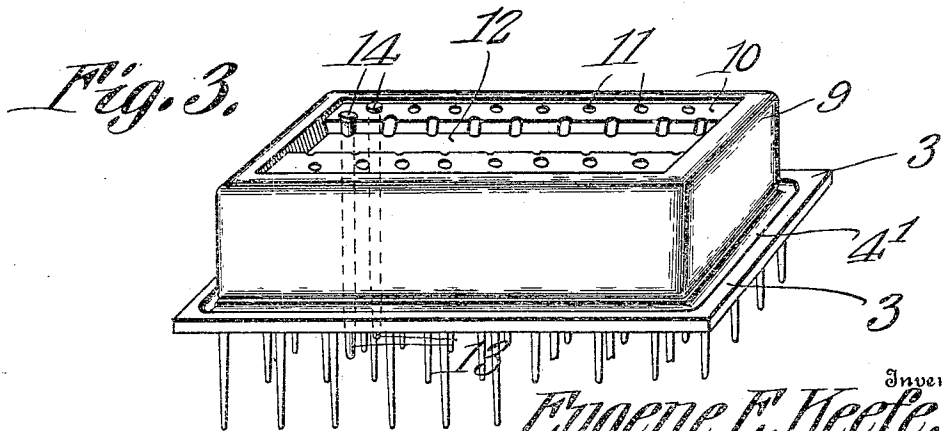
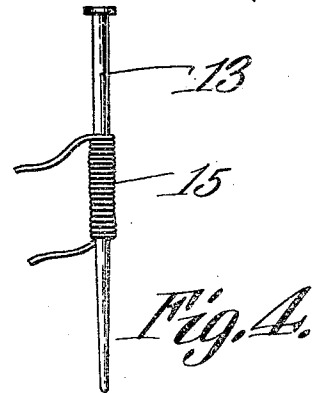
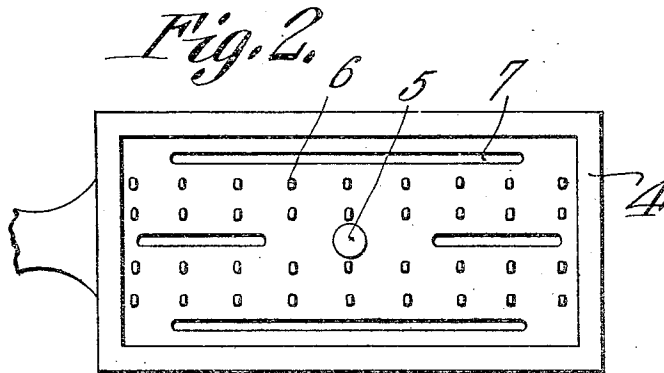
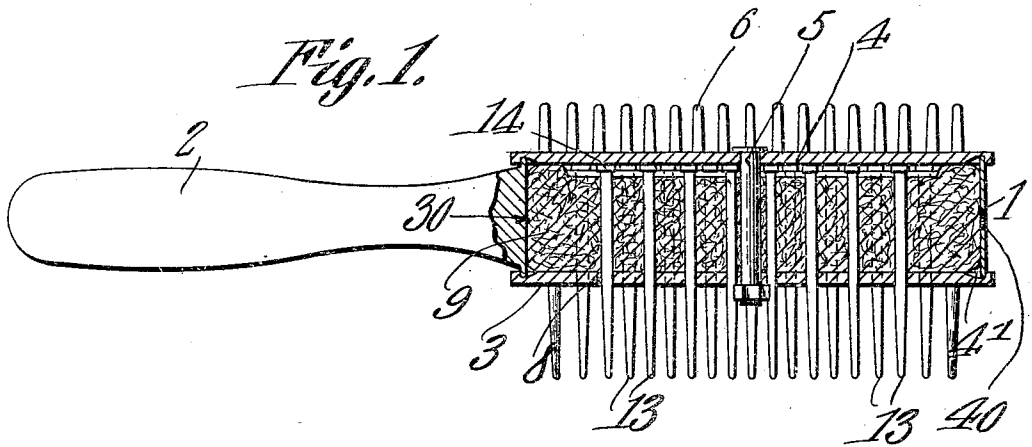
E. E. KEEFE.

COMB.

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959,866.

Patented May 31, 1910.



Witnesses

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UNITED STATES PATENT OFFICE.

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COMB.

959,866.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EUGENE E. KEEFE, a citizen of the United States, residing at Bel-
lows Falls, in the county of Windham and
5 State of Vermont, have invented a new and
useful Comb, of which the following is a
specification.

This invention relates to means for drying
and crimping the hair, one of its objects be-
ing to provide a simple device of this type
which can be manipulated in the same man-
ner as a brush or comb and which has novel
means whereby the teeth constituting a por-
tion of the device can be thoroughly heated.

15 Another object is to provide a hair drier
and crimper, the parts of which can be read-
ily separated for the purpose of cleaning
and repairing them.

20 Another object is to provide a compact
device which can be easily manipulated and
will not readily get out of order.

With these and other objects in view the
invention consists in certain novel details of
construction and the combinations of parts
25 hereinafter more fully described and pointed
out in the claims.

In the accompanying drawing the pre-
ferred form of the invention has been shown.

In said drawings:—Figure 1 is a longi-
tudinal section through the hair drier con-
stituting the present invention. Fig. 2 is a
plan view of the head thereof. Fig. 3 is a
perspective view of the heating block and
one of the plates used in connection there-
with. Fig. 4 is a detail view of a tooth hav-
ing modified means for heating it.

Referring to the figures by characters of
reference, 1 designates a frame of suitable
contour and preferably formed of metal,
40 there being a handle 2 formed integral with
this frame or fastened to it in any suitable
manner whereby the entire device is con-
veniently manipulated.

The frame 1 is designed to be closed at the
45 top and bottom thereof by means of plates
3 and 4 respectively, each of these plates be-
ing provided in its inner face with a con-
tinuous channel or groove 4 so arranged as
to receive the adjoining edges of the frame.
50 A bolt 5 or other suitable removable fasten-
ing device is extended through the centers of
the plates 3 and 4 and is designed, when
tightened, to clamp the said plates upon the
opposed edges of the frame and thus form
55 a closed casing. The plate 4 has a parallel
series of teeth 6 extending perpendicularly

therefrom and located at suitable points
within this plate are elongated openings 7
for the purpose hereinafter set forth. The
teeth 6 are preferably formed integral with 60
the plate 4. Openings 8 are formed in the
opposed plate 3 and are disposed in the same
relation to one another as are the teeth 6.

Removably mounted within the frame 1
and against the opposed plates 3 and 4 is 65
a heating block 9 formed preferably of a
mixture of cement and grit, the parts being
so proportioned as to readily absorb oil such
as alcohol, to be used as a fuel. The block
9 is provided in its upper face with a recess 70
10 and openings 11 extend through the block
and are designed to register with the open-
ings 8 in the plate 3. A trough or channel
12 is formed in the bottom of the recess 10
and constitutes means for holding alcohol 75
or other inflammable fluid while the same is
being absorbed by the block 9. The open-
ings 11 are designed to receive elongated
teeth 13 having heads 14 at one end which
are so proportioned as to contact with the 80
plate 4, the thickness of each head being sub-
stantially equal to the depth of the recess
10. The other ends of the teeth project
through the openings 8 and beyond the plate
3, these projecting portions being shaped 85
similarly to the teeth 6.

In using the device herein described alco-
hol or other suitable inflammable fluid is
poured through the openings 7 and onto the
block 9, the recess 10 and trough 12 serving 90
to hold the liquid until it has been completely
absorbed by the block. After this absorption
has taken place, the oil contained within the
block can be ignited and the combustion will
result in the thorough heating of the teeth 13 95
and the transmission of a portion of the heat
through the heads 14 to the plate 4 which
will in turn result in the heating of the
teeth 6. After the various teeth have been
thoroughly heated in this manner and the 100
flame extinguished, the teeth can be drawn
through the hair and will, obviously, quickly
dry it. The channels 4 not only constitute
means for receiving the edges of the frame
1 but also serve as drip troughs for receiv- 105
ing any surplus fluid which might pass
through the block 9 prior to being con-
sumed.

Should it be desired to separate the sev-
eral parts for the purpose of cleaning or 110
repairing them, it merely becomes neces-
sary to remove the fastening device 5, where-

upon all of the parts can be separately handled.

Instead of utilizing a block of absorbent material for the purpose of heating the teeth 5 by means of an ignited oil or the like, they may be extended through resistance coils such as shown for example at 15 in Fig. 4. It is not necessary to insulate the coils from the teeth for the reason that the current will 10 be shut off when the device is in use. By then connecting the various resistance coils to a source of electricity the temperature of the various teeth can be quickly raised. If desired, the handle 2 may be spaced from the 15 block 9 by a refractory lining 30, and suitable vent holes 40 of which there may be one or more, may be provided.

It is of course to be understood that various changes may be made in the construction and arrangement of the parts without 20 departing from the spirit or sacrificing the advantages of the invention as defined by the scope of the appended claims.

What is claimed is:—

25 1. A device of the class described including a casing, teeth extending therefrom, and means within the casing for generating heat, and teeth extending through said heat generating means.

30 2. A device of the class described including a casing, heat generating means therein, oppositely extending teeth upon the casing, one set of teeth extending through the said heat generating means and beyond the casing, said set constituting means for transmitting 35 heat to the other teeth.

3. A device of the class described including a casing, an apertured block removably mounted therein for absorbing liquid fuel, 40 and teeth extending through the block and beyond said casing.

4. A device of the class described including a frame, plates detachably mounted upon opposed portions of the frame, teeth 45 integral with and outstanding from one of the plates, a fuel absorbing block mounted within the frame and between the plates,

and teeth extending through the block and beyond one of the plates, said latter teeth contacting with the plate on which the first 50 mentioned teeth are mounted.

5. A device of the class described including a frame, an apertured block therein for absorbing liquid fuel, plates detachably 55 mounted upon opposite portions of the frame and constituting means for holding the block within the frame, said block having a fuel receiving recess in one face, teeth extending from and integral with one of the plates, the other plate having apertures 60 therein, and teeth extending through the block and the apertured plate and contacting with the toothed plate.

6. A device of the class described including a frame, a block therein for absorbing 65 liquid fuel, plates detachably secured upon opposed portions of the frame for holding the block therein, teeth integral with one of the plates, the other plate having apertures therein, teeth extending through the block 70 and the apertures in the plate, said teeth having heads bearing upon the remaining plate, and means for detachably securing the plates and blocks together.

7. A device of the class described including 75 a structure, means connected thereto for absorbing liquid fuel, and teeth extending through said means, and beyond the structure.

8. A device of the class described including 80 a toothed structure, and a non-combustible plastic block separate from and contacting with said structure, said block constituting means for absorbing liquid fuel and holding the fuel while burning to heat 85 the toothed structure.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

EUGENE E. KEEFE.

Witnesses:

CHARLES E. CAPRON,
ZINA H. ALBEE.