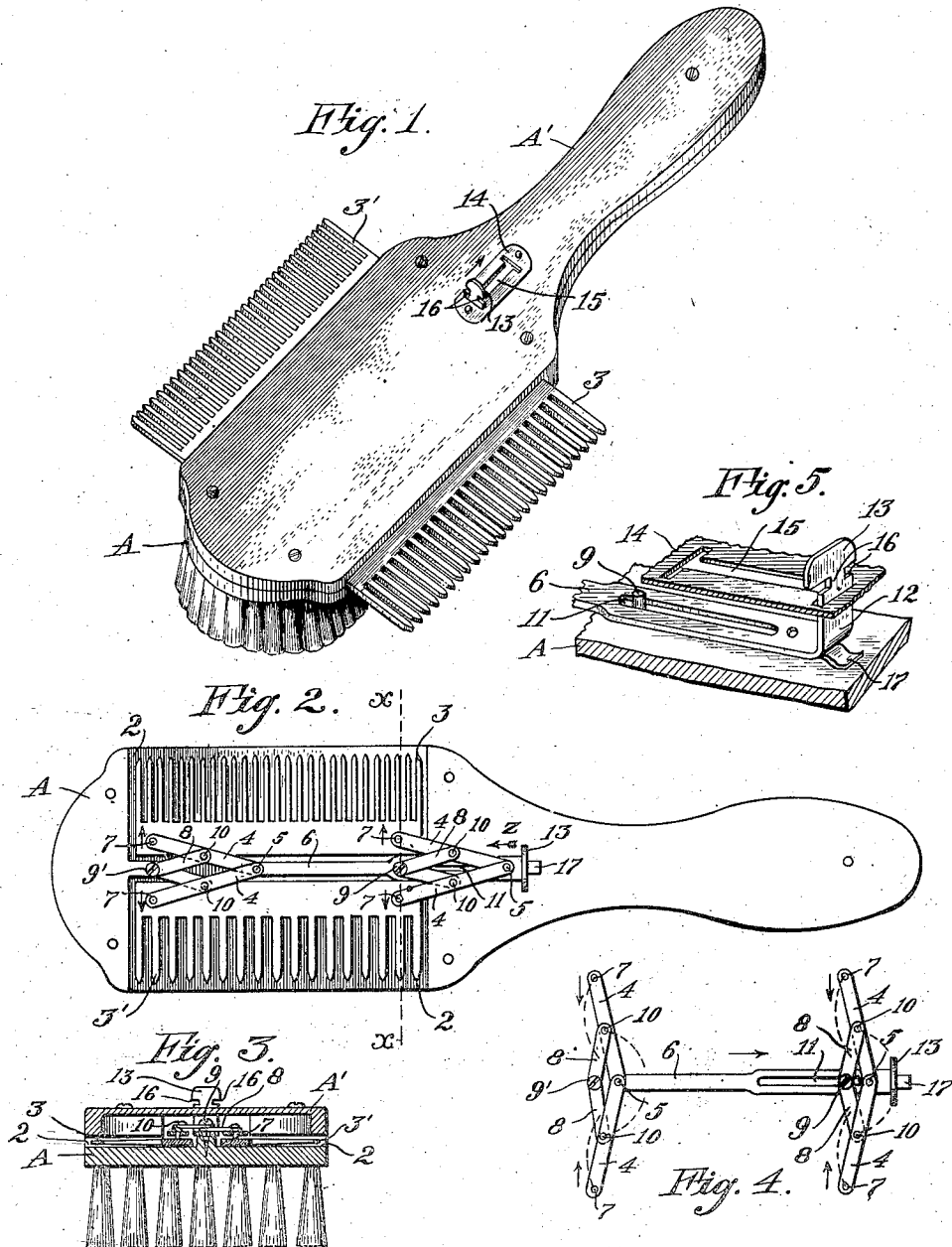


E. KOHLER & J. BLEIKER.
COMBINATION BRUSH AND COMB.
APPLICATION FILED JAN. 25, 1909.

933,567.

Patented Sept. 7, 1909.



WITNESSES;

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COMBINATION BRUSH AND COMB.

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Specification of Letters Patent.

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Application filed January 25, 1909. Serial No. 474,085.

To all whom it may concern:

Be it known that we, ERNEST KOHLER, a citizen of the United States, and JOHN BLEIKER, a citizen of Switzerland, both residing at Alameda, in the county of Alameda and State of California, have invented new and useful Improvements in Combination Brushes and Combs, of which the following is a specification.

Our invention relates to a combined hair brush and comb, and particularly to that class wherein the body of the brush is so constituted as to form a receptacle for one or more combs.

The object of our invention is to provide a simple, practical, novel and effective form of a combined hair brush and comb, in which the comb is adapted to be retained within the body portion of the brush when not in use, and in which suitable means are provided for readily adjusting the comb for use when desired.

A further object is to provide a combined hair brush and comb which is an article of general utility, and particularly suited for the uses of barbers, hair-dressers, and the like; which is compact in form and neat in appearance.

The invention consists of the parts and the construction and combination of parts as hereinafter more fully described and claimed, having reference to the accompanying drawings, in which—

Figure 1 is a perspective view of our combined hair brush and comb. Fig. 2 is a plan view with the top portion removed, showing the combs in a closed position. Fig. 3 is a section on the line X—X, Fig. 2. Fig. 4 is a diagrammatic view of the actuating mechanism. Fig. 5 is a detailed view of the thumb-piece and guide.

A is the body portion constituting the back and handle of a hair brush which may be of any suitable design or construction, in which are formed the recesses 2 adapted to receive the combs 3—3'. Toggle links 4 are pivoted at 5 to an actuating bar 6, and to the combs 3—3' at 7; cooperating toggle links 8 being fulcrumed to the brush back A on pins 9—9' and pivoted to links 4 at 10.

The actuating bar 6 is slotted at 11, Fig. 4, to permit of slidable movement with relation to the pin 9, and the bar is turned upward at one end, as at 12, so as to form a thumb-piece 13, as shown in Fig. 5.

14 is a guide plate secured to the cover portion A', having a narrow slot 15 which is widened at the extremities to receive the upper portion of the thumb-piece.

Notches 16 are cut in the thumb-piece to such depth that it will slide within the narrow slot 15 of the guide plate. A spring 17 placed upon the under side of the actuating bar and under the thumb-piece, tends to retain the notches 16 out of alinement with the slot 15.

In practice, by pressing down upon the thumb-piece 13 against the action of the spring 17, until the notches 16 are on the plane of the slot 15, the thumb-piece and the actuating bar 6 may be moved the length of the slot 15 in the guide plate 14, whereupon the notches are thrown out of engagement with the slot 15 by the spring 17, and the actuating bar is retained in a locked position.

When the actuating bar is moved in the direction of the arrow Z, Fig. 2, the inner ends of the long links 4 of the toggle will move therewith, while the outer ends, by reason of being fulcrumed on the short links 8, will be moved outwardly in a direction at right angles to that of the actuating bar, until the position shown in Fig. 4 is reached. The combs being carried by the outer ends of the links 4 will then be in the open position shown in Fig. 1, and retained therein by reason of the guide plate and thumb-piece, as before described.

When the thumb-piece is moved in one direction, the combs are retracted within the housings in the back of the brush, and the device looks like an ordinary brush. When wishing to use the combs (one of which may be fine, and the other coarse), they are projected outward by a simple movement of the thumb-piece in the opposite direction.

In the drawings, the brush is shown with two combs attached, both of which are operated simultaneously; but it is apparent that when only one comb is desired, but one recess will be made in the brush back, and the toggle links on only one side of the brush will be required, the means of operation remaining substantially the same.

The cover portion A' may be secured to the brush back by screws, or other suitable means, in such manner that it may be readily removed for the purpose of cleaning or repairing the parts.

Having thus described our invention, what we claim and desire to secure by Letters Patent is—

1. The combination with a body portion
5 constituting a back and a handle, said body
portion having a recess along each side, a
comb adapted to operate in and out of said
recess, and comb operating means, said last
named means including a bar slidably mount-
10 ed on the handle and a toggle connection be-
tween said bar and comb for operating the
latter in a plane at substantially right angles
to the direction of movement of said bar.
2. The combination of a body portion con-
15 stituting a back and a handle, said back be-
ing recessed along its side edges, a comb
movable into and out of each recess and
means for operating the combs, said last
named means including a longitudinally
20 slidable bar and toggle lever connections be-
tween the bar and each end of the combs.
3. The combination of a body portion con-
stituting a back and a handle said back be-
ing recessed along its opposite side portions,
25 a comb slidably mounted in each of said re-
cesses, a slide bar interposed between the
backs of the combs, and a toggle lever connec-
tion between the slide bar and each end of
each of said combs whereby the combs are
30 operatively moved in unison out of or into
the recesses.
4. The combination of a body portion con-
stituting a back and a handle, said back hav-
ing a recess along its side, a comb slidably
35 mounted in said recess and adapted to be
moved into and out of the recess, a slide bar
movable longitudinally of the back, and con-
nections between the handle and the back of
the comb for moving the comb in a plane at
40 right angles to the direction of movement of
the slide bar.
5. The combination of a body portion con-

stituting a back and a handle, said back be-
ing recessed along its side, a comb mounted
in said recess and adapted to move into and
out of the same, a bar slidable longitudinally
of the back, a pair of links pivoted to the bar
and to opposite ends of the comb, and an-
other pair of links pivoted to the first pair
of links and to fixed supports on said back. 45

6. A disappearing comb comprising a
housing therefor, and means for moving the
comb into and out of the housing, said last-
named means comprising a bar sliding
lengthwise of the comb and having a project-
ing exposed portion forming a finger-hold,
and toggle connections between the bar and
comb by which the latter is moved at right
angles to the bar on the reciprocation of the
latter. 55

7. The combination of a body portion con-
stituting a back and a handle, said back be-
ing recessed along its opposite edges to form
 housings, a pair of combs in said housings
and movable in opposite directions into and
out of the housings, and means carried by
the back for moving said combs, said last-
named means including a sliding bar be-
tween the combs, and toggle connections be-
tween the bar and each of the combs, said
toggles comprising a pair of links pivoted
to each comb and also to the bar, and an-
other pair of links pivoted to a fixed support
and also pivoted to a pair of the first-named
links. 60

In testimony whereof we have hereunto set
our hands in presence of two subscribing
witnesses. 65

ERNEST KOHLER.
JOHN BLEIKER.

Witnesses:

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