

Title (en)

ELECTRIC MASCARA BRUSH THAT CAN VIBRATE AND COUNTER ROTATE

Title (de)

ELEKTRISCHES MASCARABÜRSTCHEN MIT VIBRATIONS- UND GEGENDREHFUNKTION

Title (fr)

BROSSE ÉLECTRIQUE À MASCARA QUI PEUT VIBRER ET TOURNER EN SENS CONTRAIRE

Publication

EP 2491813 A4 20130828 (EN)

Application

EP 09850505 A 20091023

Priority

CN 2009074575 W 20091023

Abstract (en)

[origin: EP2491813A1] The present invention recites an electric mascara brush that can vibrate and counter rotate. The brush includes a main body, a rod and a bottle. The main body defines a receiving space therein. The main body has a power source and a reversible DC motor which are disposed in the receiving space. The power source electrically connects to the DC motor. An automatic power off IC connects the power source to the DC motor. The DC motor includes a rotor and an axle about which the rotor rotates. At least one counterweight block is disposed on the rotor so that a center of mass of the rotor is offset from the axle. The rod has a first end directly or indirectly attached to the axle in a rotational operative relationship and a second end attached with an applicator head. The bottle defines a liquid chamber and an opening. The opening communicates with the liquid chamber, and the rod extending into the liquid chamber through the opening. The rod is sleeved with a gasket, so that the gasket blocks the opening and seals the liquid chamber when the main body is affixed to the bottle.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [A] DE 202009007815 U1 20090827 - TSAI YI LI [TW]
- [A] WO 2007094552 A1 20070823 - AMOREPACIFIC CORP [KR], et al
- [A] WO 2009023041 A1 20090219 - STACHOWSKI BARBARA CAREY [US]
- See references of WO 2011047509A1

Cited by

EP3205229A1; US11096470B2; US11712102B2

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