

Title (en)  
ULTRASONIC HAIR STYLING

Title (de)  
ULTRASCHALLHAARSTYLING

Title (fr)  
COIFFURE PAR ULTRASONS

Publication  
**EP 3328235 A1 20180606 (EN)**

Application  
**EP 16751230 A 20160728**

Priority  
• EP 15178824 A 20150729  
• EP 2016068102 W 20160728

Abstract (en)  
[origin: WO2017017236A1] A hair styler uses ultrasound at an ultrasound frequency of at least 1 MHz to get a non-chemical hair styling. Advantageously, the ultrasound frequency is between 1 and 100 MHz, preferably between 3 and 10 MHz, and more preferably between 3 and 5 MHz. The ultrasound energy is preferably applied at a power that is at least 1 W/cm<sup>2</sup>, and preferably does not exceed 10 W/cm<sup>2</sup>, such as 6 W/cm<sup>2</sup>. The invention may be used for hair curling and for hair straightening. A hair straightening method comprises temporarily straightening hair, and applying ultrasound to temporarily straightened hair to obtain straightened hair. Advantageously, ultrasound is applied during a period of between 5 seconds and 2 minutes, and preferably during about 10 seconds.

IPC 8 full level  
**A45D 2/00** (2006.01); **A45D 1/04** (2006.01)

CPC (source: EP KR US)  
**A45D 1/04** (2013.01 - EP US); **A45D 2/001** (2013.01 - EP US); **A45D 2/002** (2013.01 - US); **A45D 2/10** (2013.01 - KR); **A45D 2/141** (2013.01 - KR); **B06B 1/02** (2013.01 - KR); **A45D 2200/207** (2013.01 - EP US)

Citation (search report)  
See references of WO 2017017236A1

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Designated extension state (EPC)  
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DOCDB simple family (publication)  
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**EP 2016068102 W 20160728**; BR 112018001929 A 20160728; CN 201680043999 A 20160728; EP 16751230 A 20160728; JP 2018502422 A 20160728; KR 20187005580 A 20160728; RU 2018107077 A 20160728; US 201615747969 A 20160728