

Title (en)  
HAIR CURLING IRON WITH WINDER

Title (de)  
LOCKENSTAB MIT WICKLER

Title (fr)  
FER À FRISER AVEC ENROULEUR

Publication  
**EP 3166440 A4 20180117 (EN)**

Application  
**EP 15818890 A 20150707**

Priority  
• CN 2014081771 W 20140707  
• CN 2015083447 W 20150707

Abstract (en)  
[origin: WO2016004851A1] A curling iron (1, 401) motorised to wind a lock of hair (20) about a barrel (16, 116) offers improved ergonomics by providing a body (11, 411) that surrounds the barrel (16) to form a hair-receiving space (19) accessed through an opening (18) in the body (11, 411). The opening (18) provides a passage for the hair and comprises a circumferential portion (18a) extending about a distal end (16b) of the barrel (16, 116) and a slot portion (18b) extending axially from the circumferential portion (18a) toward the proximal end (16a). The slot portion (18b) is disposed at a longitudinal end of the curling iron (1) and is configured for receiving a lock of hair (20) elongated parallel to the slot and pushed in crosswise. A resilient finger may mounted to the body (11, 411) projects to normally close the slot portion (18b) and hold the lock of hair (20) in the hair-receiving space (19). A gating coupling (90, 91) may connect the barrel (16, 116) to the body (10, 110, 210, 310) to provide for relative movement between the barrel (16, 116) and the body (10, 110, 210, 310) between open and closed position, for inserting and releasing a lock of hair (20) respectively.

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

CPC (source: EP RU US)  
**A45B 23/00** (2013.01 - RU); **A45D 1/00** (2013.01 - EP US); **A45D 1/04** (2013.01 - EP US); **A45D 2/00** (2013.01 - EP US);  
**A45D 2/12** (2013.01 - EP US)

Citation (search report)  
• [XD] WO 2013186547 A1 20131219 - TF3 LTD [GB]  
• [XI] WO 2011060569 A1 20110526 - SUN LUEN ELECTRICAL MFG COMPANY LTD [CN], et al  
• [XI] WO 2012080751 A2 20120621 - TF3 LTD [GB], et al  
• See also references of WO 2016004851A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2016004851 A1 20160114**; CN 106535697 A 20170322; CN 206603399 U 20171103; EP 3166440 A1 20170517; EP 3166440 A4 20180117; EP 3166440 B1 20190821; JP 2017520345 A 20170727; JP 6678639 B2 20200408; RU 2017101671 A 20180810; RU 2017101671 A3 20180810; RU 2673752 C2 20181129; US 2017202332 A1 20170720; WO 2016004569 A2 20160114; WO 2016004569 A3 20160310

DOCDB simple family (application)  
**CN 2015083447 W 20150707**; CN 2014081771 W 20140707; CN 201490001526 U 20140707; CN 201580037431 A 20150707; EP 15818890 A 20150707; JP 2017501326 A 20150707; RU 2017101671 A 20150707; US 201515323993 A 20150707