

Title (en)  
STRENGTH ENHANCERS AND METHOD OF ACHIEVING STRENGTH ENHANCEMENT IN AN ELECTRONIC VAPOR DEVICE

Title (de)  
FESTIGKEITSVERSTÄRKER UND VERFAHREN ZUR ERZIELUNG VON FESTIGKEIT IN EINER ELEKTRONISCHEN DAMPFVORRICHTUNG

Title (fr)  
ÉLÉMENTS D'AMÉLIORATION DE RÉSISTANCE, ET PROCÉDÉ PERMETTANT D'OBTENIR UNE AMÉLIORATION DE RÉSISTANCE DANS UN DISPOSITIF À VAPOTER ÉLECTRONIQUE

Publication  
**EP 3389420 B1 20190911 (EN)**

Application  
**EP 16822652 A 20161216**

Priority  
• US 201514974211 A 20151218  
• EP 2016081469 W 20161216

Abstract (en)  
[origin: WO2017103136A1] There is provided a pre-vaporization formulation for an e-vaping device (60), the pre- vaporization formulation including a vapor former including at least one of propylene glycol and glycerol, and an additive including at least one of carvacrol, thymol, monomenthyl succinate, N- (2-hydroxyethyl)-2,3-dimethyl-2-isopropyl butanamide. Also provided is an e-vaping device (60) comprising a cartomizer (70) including a reservoir (14) holding the pre-vaporization formulation, a mouth-end piece, and a heater (19) configured to heat the pre-vaporization formulation. The e-vaping device (60) further includes a power supply section connected to the cartomizer (70) and including a puff sensor (16) configured to sense a puff taking place at the mouth-end piece, and a power source configured to supply power to the heater (19).

IPC 8 full level  
**A24F 40/40** (2020.01); **A24F 40/10** (2020.01)

CPC (source: EP IL KR RU US)  
**A24B 15/16** (2013.01 - IL RU US); **A24B 15/167** (2016.11 - EP IL KR RU US); **A24B 15/243** (2013.01 - KR RU);  
**A24B 15/303** (2013.01 - IL KR RU US); **A24B 15/32** (2013.01 - IL KR RU US); **A24B 15/34** (2013.01 - IL RU US);  
**A24B 15/42** (2013.01 - IL RU US); **A24F 40/40** (2020.01 - EP KR US); **A24F 40/10** (2020.01 - EP US)

Citation (opposition)  
Opponent : Nicoventures Trading Limited  
• WO 2013090410 A1 20130620 - SENTIENS LLC [US]  
• WO 2009001085 A2 20081231 - KIND CONSUMER LTD [GB], et al  
• WO 2014182736 A1 20141113 - PLOOM INC [US]  
• WO 2015084544 A1 20150611 - PLOOM INC [US]  
• US 2015038576 A1 20150205 - TIMOKHINA INNA S [US], et al  
• EP 2862454 A1 20150422 - VALEO LAB GMBH [DE]

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 2017103136 A1 20170622**; CA 3001780 A1 20170622; CN 108289496 A 20180717; EP 3389420 A1 20181024; EP 3389420 B1 20190911;  
ES 2749951 T3 20200324; IL 259200 A 20180731; IL 259200 B1 20230501; IL 259200 B2 20230901; JP 2019503660 A 20190214;  
JP 2022103338 A 20220707; KR 20180094868 A 20180824; MX 2018006898 A 20180906; PL 3389420 T3 20200615;  
RU 2018125249 A 20200120; RU 2018125249 A3 20200414; RU 2730706 C2 20200825; US 2017172204 A1 20170622

DOCDB simple family (application)  
**EP 2016081469 W 20161216**; CA 3001780 A 20161216; CN 201680068322 A 20161216; EP 16822652 A 20161216;  
ES 16822652 T 20161216; IL 25920018 A 20180508; JP 2018526861 A 20161216; JP 2022081415 A 20220518; KR 20187015306 A 20161216;  
MX 2018006898 A 20161216; PL 16822652 T 20161216; RU 2018125249 A 20161216; US 201514974211 A 20151218