

Title (en)  
Nozzle unit for a vacuum cleaner

Title (de)  
Saugdüseinheit eines Staubsaugers

Title (fr)  
Unité de buse d'aspirateur d'un aspirateur

Publication  
**EP 2218385 A3 20130306 (EN)**

Application  
**EP 10250253 A 20100215**

Priority  
KR 20090012454 A 20090216

Abstract (en)  
[origin: EP2218385A2] A nozzle unit (100), having a brush body (110), a brush cover (130) mounted on the brush body, a suction port (115) formed on the brush body, and a hair removal unit (150), is provided. The hair removal unit (150) includes at least two hair removal members (151, 153) that are disposed apart from each other; and the at least two hair removal members rotate with respect to the brush body (110) when the nozzle unit (100) moves forward and backward, alternately contacting a surface (50) being cleaned, thereby removing dirt or fibrous contaminants from the surface.

IPC 8 full level  
**A47L 9/04** (2006.01); **A47L 9/06** (2006.01)

CPC (source: EP KR US)  
**A47L 9/00** (2013.01 - KR); **A47L 9/02** (2013.01 - KR); **A47L 9/04** (2013.01 - KR); **A47L 9/0416** (2013.01 - EP US);  
**A47L 9/0477** (2013.01 - EP US); **A47L 9/0488** (2013.01 - EP US); **A47L 9/0613** (2013.01 - EP US); **A47L 9/0666** (2013.01 - EP US)

Citation (search report)  
• [XA] US 2007143954 A1 20070628 - GRAHAM BRANDON [US], et al  
• [XA] EP 2008563 A1 20081231 - SAMSUNG KWANGJU ELECTRONICS CO [KR]  
• [A] GB 2187377 A 19870909 - NIPPON SEAL CO [JP]  
• [A] JP H0819493 A 19960123 - SANYO ELECTRIC CO

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EP4133982A4; GB2486440A; GB2486440B; USD929055S; US8495790B2; US8484800B2; WO2017064463A1; US11992172B2; USD871695S; USD905919S; AU2010201002B2; EP3629868A4; US8448294B2; USD925848S; WO2013072665A1; US10702108B2; US11647881B2; US12070177B2; CN103120570A; GB2496721B; CN106963290A; KR20180084055A; EP3364844A4; KR20200080330A; US2021169289A1; AU2019246800B2; US11712139B2; US8667642B2; WO2018217980A1; US11202542B2; US11839346B2; EP2229858B1; WO2017070492A1; US10925448B2; US11278171B2; US11759069B2; US12048410B2; EP3454709B1

Designated contracting state (EPC)  
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 SE SI SK SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2218385 A2 20100818; EP 2218385 A3 20130306**; KR 20100093325 A 20100825; RU 2010105436 A 20110820;  
US 2010205768 A1 20100819

DOCDB simple family (application)  
**EP 10250253 A 20100215**; KR 20090012454 A 20090216; RU 2010105436 A 20100215; US 69047510 A 20100120