

Title (en)
Vacuum Cleaner

Title (de)
Staubsauger

Title (fr)
Aspirateur

Publication
EP 2716197 A2 20140409 (EN)

Application
EP 13186947 A 20131001

Priority
KR 20120110306 A 20121004

Abstract (en)
A vacuum cleaner (1) includes a suction head (100) including a cover (200) and a bottom plate (600) provided with a suction hole (640) through which air is sucked from a surface to be cleaned and rotatably combined with the cover (200). The bottom plate (600) is rotated in one direction relative to the cover (200) when the suction head (100) moves forward, and is rotated in the other direction relative to the cover (200) when the suction head (100) moves backward. Further, the vacuum cleaner (10) includes a brush base (400) including brushes (450) and movable upward and backward between the cover (200) and the bottom plate (600). The brush base (400) includes indicating parts (480) exposed to the outside of the cover (200) and forming at least a portion of the external appearance of the suction head (100).

IPC 8 full level
A47L 9/06 (2006.01)

CPC (source: EP KR US)
A47L 5/362 (2013.01 - US); **A47L 9/02** (2013.01 - KR); **A47L 9/04** (2013.01 - KR); **A47L 9/0653** (2013.01 - US); **A47L 9/0666** (2013.01 - EP US); **A47L 9/0673** (2013.01 - US); **A47L 9/14** (2013.01 - US); **A47L 9/1683** (2013.01 - US)

Cited by
DE102013223863A1; CN105147190A

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2716197 A2 20140409; **EP 2716197 A3 20180516**; **EP 2716197 B1 20191204**; CN 103705172 A 20140409; KR 102015320 B1 20190828; KR 20140044222 A 20140414; US 2014096340 A1 20140410; US 2017086631 A1 20170330

DOCDB simple family (application)
EP 13186947 A 20131001; CN 201310462988 A 20131008; KR 20120110306 A 20121004; US 201314045362 A 20131003; US 201615378593 A 20161214