

Title (en)
Impeller and vacuum cleaner motor assembly including the same

Title (de)
Flügelrad und Staubsaugermotoranordnung damit

Title (fr)
Roue et ensemble moteur pour aspirateur comprenant celui-ci

Publication
EP 2644901 A2 20131002 (EN)

Application
EP 12182839 A 20120903

Priority
KR 20120032415 A 20120329

Abstract (en)
Disclosed herein is an impeller including: an upper plate formed integrally with upper blades; and a lower plate formed integrally with lower blades each including a coupling groove formed in an inner side thereof so that the upper blades are coupled thereto, the coupling groove corresponding to the upper blade, wherein the upper plate and the lower plate are coupled to each other so that the upper blades are fitting-coupled to the coupling grooves of the lower blades. Each of the upper and lower blades is formed on the upper and lower plates configuring the impeller, and a coupling structure between the upper and lower blades is integrated, thereby making it possible to improve rigidity of the impeller.

IPC 8 full level
F04D 29/02 (2006.01); **F04D 29/28** (2006.01); **F04D 29/62** (2006.01)

CPC (source: EP KR)
A47L 9/22 (2013.01 - KR); **F04D 29/023** (2013.01 - EP); **F04D 29/28** (2013.01 - KR); **F04D 29/282** (2013.01 - EP); **F04D 29/626** (2013.01 - EP); **F05D 2230/53** (2013.01 - EP); **F05D 2300/43** (2013.01 - EP)

Citation (applicant)
KR 20040082111 A 20040924 - SAMSUNG KWANGJU ELECTRONICS CO

Cited by
CN107127960A; CN103953842A; EP2899404A1; CN103560619A; WO2019020321A1

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 2644901 A2 20131002; **EP 2644901 A3 20160601**; CN 103362861 A 20131023; KR 20130110440 A 20131010

DOCDB simple family (application)
EP 12182839 A 20120903; CN 201210356402 A 20120921; KR 20120032415 A 20120329