

Title (en)  
CLEANING DEVICE

Title (de)  
REINIGUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE NETTOYAGE

Publication  
**EP 4064952 A4 20240221 (EN)**

Application  
**EP 20892840 A 20201125**

Priority  
• US 201962940237 P 20191125  
• US 2020062158 W 20201125

Abstract (en)  
[origin: US2021153705A1] Apparatus and method for receiving and holding debris in a collection chamber of a vacuum cleaner. A cleaning head is coupled to a body of the vacuum cleaner via one or more suspension elements that comply to horizontal oscillations of the cleaning head imparted by an offset bearing of a vertical gear drive driven by a motor mounted to the body. A vacuum source draws air in from a suction nozzle at a forward underside portion of the cleaning head adjacent to a cleaning pad, and the air travels through an air filter disposed between the vacuum source and the collection chamber. In some embodiments, the air filter comprises one or more pleats adjacent to the vacuum source.

IPC 8 full level  
**A47L 11/40** (2006.01); **A47L 5/28** (2006.01); **A47L 9/00** (2006.01); **A47L 9/02** (2006.01); **A47L 9/04** (2006.01); **A47L 9/06** (2006.01); **A47L 9/10** (2006.01); **A47L 9/14** (2006.01); **A47L 9/16** (2006.01)

CPC (source: EP US)  
**A47L 9/0072** (2013.01 - EP); **A47L 9/0483** (2013.01 - EP US); **A47L 9/0673** (2013.01 - EP US); **A47L 9/0686** (2013.01 - EP); **A47L 9/1409** (2013.01 - EP); **A47L 11/4044** (2013.01 - EP US)

Citation (search report)  
• [A] WO 2010014367 A1 20100204 - PROCTER & GAMBLE [US], et al  
• [A] US 2019075984 A1 20190314 - JAMES SAMUEL EMRYS [GB], et al  
• See also references of WO 2021108496A1

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)  
**US 2021153705 A1 20210527**; EP 4064952 A1 20221005; EP 4064952 A4 20240221; WO 2021108496 A1 20210603

DOCDB simple family (application)  
**US 202017104229 A 20201125**; EP 20892840 A 20201125; US 2020062158 W 20201125