

Title (en)
Vacuum cleaner with filter change indicator

Title (de)
Staubsauger mit Filterwechselindikator

Title (fr)
Aspirateur doté d'un indicateur échange filtre

Publication
EP 2384678 A3 20161019 (DE)

Application
EP 11401059 A 20110413

Priority
DE 102010016791 A 20100505

Abstract (en)
[origin: EP2384678A2] The vacuum cleaner (10) has a filter, particularly designed as a vacuum cleaner exhaust filter (26) in an exhaust stream, where a light emitting diode is provided as a lighting medium (100). A ultra-violet sensitive filter change indicator (101) is provided, which is optically controlled. The filter change indicator has a filter mounted in or on the vacuum cleaner.

IPC 8 full level
A47L 9/19 (2006.01); **A47L 9/28** (2006.01)

CPC (source: EP US)
A47L 9/19 (2013.01 - EP US); **A47L 9/2805** (2013.01 - EP US); **A47L 9/2857** (2013.01 - EP US); **A47L 9/2894** (2013.01 - EP US)

Citation (search report)

- [AD] WO 2004004537 A1 20040115 - VORWERK CO INTERHOLDING [DE], et al
- [A] US 2007151068 A1 20070705 - ZAHURANEC TERRY L [US], et al
- [A] US 2005278888 A1 20051222 - REINDLE MARK E [US], et al
- [A] GB 2225933 A 19900620 - HOOVER PLC [GB]

Cited by
CN109512332A

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 2384678 A2 201111109; EP 2384678 A3 20161019; EP 2384678 B1 20180808; DE 102010016791 A1 20111110;
DE 102010016791 B4 20120315; US 2011271480 A1 20111110; US 8479355 B2 20130709

DOCDB simple family (application)
EP 11401059 A 20110413; DE 102010016791 A 20100505; US 201113094895 A 20110427