Title (en)

SURFACE CLEANING APPARATUS

Title (de)

OBERFLÄCHENREINIGUNGSVORRICHTUNG

Title (fr)

APPAREIL DE NETTOYAGE DE SURFACE

Publication

**EP 3501363 A1 20190626 (EN)**

Application

**EP 18211339 A 20181210**

Priority

US 201715850928 A 20171221

Abstract (en)

A surface cleaning apparatus (10) includes a fluid delivery system and a fluid recovery system, as well as a hybrid brushroll (546') including a dowel (46'), a plurality of bristles (48') extending from the dowel (46'), and microfiber material (49') provided on the dowel (46') between the plurality of bristles (48'). The hybrid brushroll (546') is suitable for use on both hard and soft surfaces, and for wet or dry vacuum cleaning.

IPC 8 full level

**A47L 11/30** (2006.01); **A47L 11/40** (2006.01)

CPC (source: CN EP KR)

**A46B 15/0053** (2013.01 - KR); **A46D 1/0207** (2013.01 - KR); **A47L 5/26** (2013.01 - CN); **A47L 5/30** (2013.01 - KR); **A47L 7/0014** (2013.01 - KR); **A47L 9/0461** (2013.01 - CN); **A47L 9/0477** (2013.01 - CN); **A47L 9/322** (2013.01 - CN); **A47L 11/201** (2013.01 - KR); **A47L 11/202** (2013.01 - KR); **A47L 11/206** (2013.01 - KR); **A47L 11/302** (2013.01 - EP); **A47L 11/4041** (2013.01 - EP KR); **A47L 11/4044** (2013.01 - KR)

Citation (search report)

- [Y] EP 3162262 A2 20170503 - BISSELL HOMECARE INC [US]
- [Y] WO 2014094833 A1 20140626 - KAERCHER GMBH & CO KG ALFRED [DE]
- [Y] US 2010306957 A1 20101209 - FOLLOWS THOMAS JAMES DUNNING [GB], et al
- [A] DE 1967828 U 19670907 - BUERSTENFABRIK WALTHER A G [CH]

Cited by

CN115382851A; CN115251779A; GB2621239A; US11484172B1

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 3501363 A1 20190626**; **EP 3501363 B1 20201007**; AU 2018278858 A1 20190711; AU 2018278858 B2 20210422; AU 2020277264 A1 20201224; AU 2021200690 A1 20210304; AU 2021200691 A1 20210304; AU 2021200691 A2 20210923; AU 2021200692 A1 20210304; AU 2021206798 A1 20210812; CA 3028214 A1 20190621; CN 109938647 A 20190628; CN 109938647 B 20220607; CN 112806900 A 20210518; CN 112932324 A 20210611; CN 112956946 A 20210615; CN 112971589 A 20210618; JP 2019111338 A 20190711; JP 7120905 B2 20220817; KR 102401207 B1 20220524; KR 20190075844 A 20190701; PL 3501363 T3 20210419; PT 3501363 T 20201106

DOCDB simple family (application)

**EP 18211339 A 20181210**; AU 2018278858 A 20181211; AU 2020277264 A 20201127; AU 2021200690 A 20210203; AU 2021200691 A 20210203; AU 2021200692 A 20210203; AU 2021206798 A 20210719; CA 3028214 A 20181220; CN 201811562731 A 20181220; CN 202110192761 A 20181220; CN 202110193120 A 20181220; CN 202110201302 A 20181220; CN 202110201306 A 20181220; JP 2018237846 A 20181220; KR 20180166030 A 20181220; PL 18211339 T 20181210; PT 18211339 T 20181210