

Title (en)

CLEANING TOOL FOR A FLOOR CLEANING DEVICE

Title (de)

REINIGUNGSWERKZEUG FÜR EIN BODENREINIGUNGSGERÄT

Title (fr)

OUTIL DE NETTOYAGE POUR DISPOSITIF DE NETTOYAGE DE SOLS

Publication

**EP 3057483 A1 20160824 (DE)**

Application

**EP 14748229 A 20140808**

Priority

- DE 102013111330 A 20131014
- EP 2014067119 W 20140808

Abstract (en)

[origin: WO2015055333A1] The invention relates to a cleaning tool (10; 60) for a floor cleaning device, comprising a main part (14; 64) which supports a cleaning covering (18; 68) that is subject to wear and comprising a signal transmitter (22; 72) which provides a wireless signal depending on the degree of wear of the cleaning covering (18; 68). The aim of the invention is to develop the cleaning tool so as to allow an inexpensive detection of when a maximum allowable degree of wear of the cleaning covering (18; 68) had been reached. According to the invention, this is achieved in that the signal transmitter (22; 72) is rigidly designed and is fixed on a movable support part (24; 76), said support part (24; 76) being held on the main part (14; 64) and being movable from a main position into a deflection position against a restoring force. The support part (24; 76) protrudes farther out of the main part (14; 64) in the main position than in the deflection position, and the support part (24; 76) and/or the signal transmitter (22; 72) contacts the floor surface (72; 106) to be cleaned when a maximum allowable degree of wear of the cleaning covering (18; 68) has been reached.

IPC 8 full level

**A47L 11/40** (2006.01); **E01H 1/05** (2006.01)

CPC (source: EP US)

**A46B 13/001** (2013.01 - EP US); **A46B 15/001** (2013.01 - EP US); **A47L 11/4002** (2013.01 - EP US); **A47L 11/4041** (2013.01 - EP US); **E01H 1/056** (2013.01 - EP US)

Citation (search report)

See references of WO 2015055333A1

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)

**DE 102013111330 A1 20150416**; **DE 102013111330 A8 20150723**; CN 105636493 A 20160601; CN 105636493 B 20180109; DK 3057483 T3 20180108; EP 3057483 A1 20160824; EP 3057483 B1 20171115; US 2016220087 A1 20160804; US 9955840 B2 20180501; WO 2015055333 A1 20150423

DOCDB simple family (application)

**DE 102013111330 A 20131014**; CN 201480055578 A 20140808; DK 14748229 T 20140808; EP 14748229 A 20140808; EP 2014067119 W 20140808; US 201615097814 A 20160413