

Title (en)

SELFPROPELLED AND SELF-STEERING FLOOR CLEANING MACHINE AND CLEANING SYSTEM

Title (de)

SELBSTFAHRENDES UND SELBSTLENKENDES BODENREINIGUNGSGERÄT UND REINIGUNGSSYSTEM

Title (fr)

APPAREIL DE NETTOYAGE DU SOL AUTOTRACTÉ ET AUTODIRECTEUR ET SYSTÈME DE NETTOYAGE

Publication

EP 3076843 A1 20161012 (DE)

Application

EP 13799615 A 20131206

Priority

EP 2013075829 W 20131206

Abstract (en)

[origin: WO2015082019A1] The invention relates to a self-propelled and self-steering floor cleaning device which comprises at least one cleaning aggregate (33, 51) and a dirt collecting container (42) which has a container interior (44), a bottom (56), a dirt inlet opening (48), and a dirt outlet opening (58), wherein dirt particles can be transferred by means of the at least one clearing aggregate (33, 51) into the container interior (44) and the dirt outlet opening (58) is formed on the bottom (56). In order to provide a floor cleaning device of this type, which enables a simple removal of dirt particles from the dirt collecting container while achieving a simple construction, it is proposed according to the invention that the floor cleaning device (14) has a valve device (60) arranged on the dirt outlet opening (58) comprising at least one valve body (62, 64) which, in a closed position, forms the bottom (56) at least in sections and closes the dirt outlet opening (58), and which can transfer into an open position, in which the dirt outlet opening (58) is at least partially released, and that the valve device (60) can be activated by air pressure for transferring the at least one valve body (62, 64) from the closed position into the open position. The invention further relates to a cleaning system.

IPC 8 full level

A47L 9/10 (2006.01)

CPC (source: CN EP KR US)

A47L 9/106 (2013.01 - EP KR US); **A47L 9/1683** (2013.01 - KR); **A47L 11/24** (2013.01 - CN US); **A47L 11/40** (2013.01 - CN); **A47L 11/4005** (2013.01 - CN); **A47L 11/4013** (2013.01 - CN US); **A47L 11/4025** (2013.01 - CN); **A47L 11/4041** (2013.01 - CN US); **A47L 11/4066** (2013.01 - CN US); **A47L 11/4072** (2013.01 - CN); **A47L 11/4091** (2013.01 - CN); **A47L 11/4094** (2013.01 - CN); **A47L 2201/024** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2015082019A1

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)

WO 2015082019 A1 20150611; **WO 2015082019 A9 20150730**; CN 105848549 A 20160810; CN 105848549 B 20180306; EP 3076843 A1 20161012; EP 3076843 B1 20171025; KR 20160096099 A 20160812; PL 3076843 T3 20180330; US 2016278596 A1 20160929

DOCDB simple family (application)

EP 2013075829 W 20131206; CN 201380081440 A 20131206; EP 13799615 A 20131206; KR 20167015987 A 20131206; PL 13799615 T 20131206; US 201615172672 A 20160603