

Title (en)

MAINTENANCE DEVICE

Title (de)

INSTANDHALTUNGSVORRICHTUNG

Title (fr)

DISPOSITIF D'ENTRETIEN

Publication

EP 2651754 A1 20131023 (DE)

Application

EP 11804538 A 20111216

Priority

- AT 20812010 A 20101216
- EP 2011073012 W 20111216

Abstract (en)

[origin: WO2012080448A1] The invention relates to an automated maintenance device (100) for large-area surfaces having a mobile carrier system, wherein the carrier system has at least one vertical carrier tower (120), on which at least two arm systems (130) are arranged, and each arm system (130) can be moved vertically along the vertical carrier tower (120) via a carrier unit (131), and the at least two carrier units (131) are arranged on opposite edges (122) and/or sides of the carrier tower (120) and can be moved vertically independently of one another.

IPC 8 full level

B63B 9/00 (2006.01); **E04G 23/00** (2006.01)

CPC (source: EP KR)

B63B 59/06 (2013.01 - KR); **B63C 5/00** (2013.01 - KR); **E04G 23/002** (2013.01 - EP); **B63B 2059/065** (2013.01 - EP);
B63C 2005/025 (2013.01 - EP)

Citation (search report)

See references of WO 2012080448A1

Cited by

US2023220943A1; WO2017197422A1; WO2018209367A1

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)

WO 2012080448 A1 20120621; AT 510919 A1 20120715; BR 112013014104 A2 20160920; CN 103328320 A 20130925;
CN 103328320 B 20161012; EP 2651754 A1 20131023; EP 2651754 B1 20160302; JP 2014505616 A 20140306; KR 20140006819 A 20140116;
PL 2651754 T3 20161031

DOCDB simple family (application)

EP 2011073012 W 20111216; AT 20812010 A 20101216; BR 112013014104 A 20111216; CN 201180059703 A 20111216;
EP 11804538 A 20111216; JP 2013543802 A 20111216; KR 20137016981 A 20111216; PL 11804538 T 20111216