

Title (en)

IMPROVEMENTS RELATING TO ROBOTIC CLEANING SYSTEMS AND ROBOTS THEREFOR

Title (de)

VERBESSERUNGEN IM ZUSAMMENHANG MIT ROBOTISCHEN REINIGUNGSSYSTEMEN UND ROBOTER DAFÜR

Title (fr)

AMÉLIORATIONS SE RAPPORTANT À DES SYSTÈMES DE NETTOYAGE ROBOTIQUES ET ROBOTS ASSOCIÉS

Publication

**EP 3592190 A1 20200115 (EN)**

Application

**EP 18710842 A 20180309**

Priority

- GB 201703810 A 20170309
- EP 2018055946 W 20180309

Abstract (en)

[origin: GB2560366A] A cleaning system comprises a cleaning robot and a docking station, each of which comprises a respective at least one reservoir for storing a cleaning fluid, the robot being operable to move over a surface while using said cleaning fluid to clean said surface, the docking station being configured to allow the robot to be docked thereat, wherein the robot and docking station are configured such that the docking of the robot at the docking station automatically causes the transfer of cleaning fluid from the at least one docking station reservoir to the at least one robot reservoir. Also claimed is a window-cleaning robot configured to determine whether the robot is adjacent a frame using a charge sensor. Also claimed is a window cleaning robot having a proximity sensing system that to determine whether the robot is adjacent a window frame and whether the robot is adjacent the window surface. Also claimed is a window-cleaning robot with a linkage that is movably mounted so as to permit movement of a cleaning pad mounting member. Also claimed is a window-cleaning robot having a cleaning fluid supply arrangement including a supply conduit with a region of high impedance, which assists in controlling the supply of cleaning fluid to a cleaning pad. Also claimed is a window-cleaning robot with a cleaning fluid supply arrangement that prevents the supply of cleaning fluid when the robot is oriented with a support side facing generally vertically downwards.

IPC 8 full level

**A47L 1/02** (2006.01)

CPC (source: EP GB)

**A47L 1/02** (2013.01 - EP GB); **A47L 9/2873** (2013.01 - GB); **A47L 11/4083** (2013.01 - GB); **A47L 2201/02** (2013.01 - GB); **A47L 2201/026** (2013.01 - GB)

Citation (search report)

See references of WO 2018162733A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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**GB 201703810 D0 20170426**; **GB 2560366 A 20180912**; CN 110381783 A 20191025; CN 110381784 A 20191025; CN 110381784 B 20220325; CN 110381785 A 20191025; CN 110381785 B 20210727; EP 3592189 A1 20200115; EP 3592189 B1 20231004; EP 3592189 C0 20231004; EP 3592190 A1 20200115; EP 3592190 B1 20231004; EP 3592190 C0 20231004; EP 3592191 A1 20200115; EP 3592191 B1 20230816; EP 3592191 C0 20230816; WO 2018162725 A1 20180913; WO 2018162733 A1 20180913; WO 2018162737 A1 20180913

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