

Title (en)  
MOVING ROBOT AND CONTROLLING METHOD THEREOF

Title (de)  
BEWEGLICHER ROBOTER UND STEUERUNGSVERFAHREN DAFÜR

Title (fr)  
ROBOT MOBILE ET PROCÉDÉ DE COMMANDE CORRESPONDANT

Publication  
**EP 3829829 A4 20220608 (EN)**

Application  
**EP 19844451 A 20190725**

Priority

- US 201862714088 P 20180803
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- KR 2019009257 W 20190725

Abstract (en)  
[origin: WO2020027496A1] A moving robot includes a traveling unit, a power supply unit, a communication unit, and a memory to store therein coordinates information regarding a point to which the main body has moved by a reference distance in a state of being in contact with the charging station, and a control unit to output a control command to return to the charging station based on a state of the power supply unit while the main body travels in the one area, to determine a position of the charging station from a current position of the main body based on a first signal transmitted from the charging station and a second signal transmitted by the communication unit, in response to the output of the control command, and to controls the traveling unit so that the main body moves to a position corresponding to the stored coordinates information.

IPC 8 full level  
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CPC (source: EP KR US)  
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Citation (search report)

- [XAI] EP 3073346 A1 20160928 - HONDA MOTOR CO LTD [JP]
- [A] US 2018081366 A1 20180322 - TAN YIYUN [CN], et al
- [A] US 2006149465 A1 20060706 - PARK JUN-HO [KR], et al
- [A] US 7206677 B2 20070417 - HULDEN JARL [SE]
- [A] WO 2016000734 A1 20160107 - HUSQVARNA AB [SE]
- [A] US 2016231749 A1 20160811 - SHIMAMURA HIDEAKI [JP]
- See also references of WO 2020027496A1

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

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