

Title (en)
SELF-MOVING ROBOT SYSTEM

Title (de)
SELBSTBEWEGENDES ROBOTERSYSTEM

Title (fr)
SYSTÈME DE ROBOT AUTOMOTEUR

Publication
EP 4162853 A4 20240410 (EN)

Application
EP 21817314 A 20210607

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Abstract (en)
[origin: EP4162853A1] A self-moving robot system is provided, including a dust collection base station and a self-moving robot, where the self-moving robot includes a main machine and a dust containing box, and the dust containing box is detachably mounted on the main machine; the dust collection base station includes a power apparatus, a dust collection apparatus, and a transfer apparatus, where the transfer apparatus can be engaged with the dust containing box and assist separation of the dust containing box from the main machine or assist mounting of the dust containing box on the main machine; the dust collection apparatus is configured to collect debris from the dust containing box; and the power apparatus drives the transfer apparatus and enables the transfer apparatus to move the dust containing box to a dust collection opening of the dust collection apparatus, so as to transfer the debris to the dust collection apparatus. The dust containing box is transferred by the transfer apparatus without using an air pump to suck the debris and the like in the dust containing box with relatively low working noise. During dust collection, there is no need to move the entire self-moving robot with a relatively small system load, and the dust containing box is transferred by the transfer apparatus with relatively low working noise and relatively high use comfort of a user.

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Citation (search report)
• [XA] EP 1849391 A2 20071031 - SAMSUNG ELECTRONICS CO LTD [KR]
• [A] US 2018235424 A1 20180823 - MORIN RUSSELL WALTER [US], et al
• [A] EP 3165147 A1 20170510 - TOSHIBA LIFESTYLE PRODUCTS & SERVICES CORP [JP]
• [A] DE 102012109938 A1 20140424 - VORWERK CO INTERHOLDING [DE]
• See also references of WO 2021244663A1

Designated contracting state (EPC)
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