

Title (en)

MOBILE ROBOTIC DEVICE WITH IMPROVED ARCHIMEDEAN SCREW PROPULSION MECHANISM

Title (de)

MOBILE ROBOTERVORRICHTUNG MIT ANTRIEBSMECHANISMUS MIT VERBESSERTER ARCHIMEDISCHER SCHRAUBE

Title (fr)

DISPOSITIF ROBOTIQUE MOBILE AVEC MÉCANISME DE PROPULSION À VIS D'ARCHIMÈDE AMÉLIORÉ

Publication

EP 3523566 A1 20190814 (FR)

Application

EP 17792111 A 20171002

Priority

- FR 1659576 A 20161004
- FR 2017052693 W 20171002

Abstract (en)

[origin: WO2018065710A1] The invention falls within the field of mobile robots. It relates to a mobile robotic device comprising a propulsion mechanism equipped with an Archimedean screw, so as to allow it to move over various types of ground. According to the invention, the mobile robotic device comprises a body and a propulsion mechanism (40), the propulsion mechanism comprising: a drum (42) capable of rotating with respect to the body, and archimedean screw thread (43) projecting from an exterior surface of the drum, and rolling members (44) each one comprising a support structure (441) and a wheel (442), each support structure forming a portion of the screw thread and each wheel being mounted as a pivot connection on the support structure, each rolling member comprising at least one cavity (4417, 4418) designed to minimize the adjacent surface areas between the support structure and the wheel.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2018065710A1

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