Title (en)

PURE TRANSLATIONAL SERIAL MANIPULATOR ROBOT HAVING THREE DEGREES OF FREEDOM WITH A REDUCED SPACE REQUIREMENT

Title (de)

REIN TRANSLATORISCHER SERIELLER MANIPULATORROBOTER MIT DREI FREIHEITSGRADEN UND REDUZIERTEM PLATZBEDARF

Title (fr)

ROBOT MANIPULATEUR TRANSLATIONNEL PUR A TROIS DEGRES DE LIBERTE SERIE A ENCOMBREMENT REDUIT

Publication

EP 2943317 A1 20151118 (FR)

Application

EP 14700568 A 20140108

Priority

- FR 1350127 A 20130108
- EP 2014050194 W 20140108

Abstract (en)

[origin: WO2014108424A1] A serial carrier having at least three degrees of freedom, comprising three pivot links, two of which have orthogonal axes (X1, X2), one of the first, second and third links being used to couple the carrier to a frame, and comprising an effector (8), said carrier comprising two passive deformable-parallelogram devices (4, 6) in the plane linked to the frame and to the effector (8), and first and second passive transmission devices (D1, D2) each formed by a double universal joint, the first double universal joint (D1) being linked to the frame and the second double universal joint being linked to the effector, the two double universal joints being linked together, said deformable-parallelogram devices (4, 6) and said transmission devices (D1, D2) being capable of restricting the movement of the effector (8) to only three degrees of freedom of translation.

IPC 8 full level

B25J 9/10 (2006.01)

CPC (source: EP US)

B25J 9/04 (2013.01 - US); **B25J 9/1065** (2013.01 - EP US); **B25J 17/00** (2013.01 - US); **B25J 18/00** (2013.01 - US); Y10T 74/20305 (2015.01 - EP US); Y10T 74/20329 (2015.01 - EP US)

Citation (search report)

See references of WO 2014108424A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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DOCDB simple family (application)

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