

Title (en)

A GRIPPING DEVICE OF A MANIPULATOR

Title (de)

GREIFVORRICHTUNG EINES MANIPULATORS

Title (fr)

DISPOSITIF DE PRÉHENSION D'UN MANIPULATEUR

Publication

**EP 4217156 A1 20230802 (EN)**

Application

**EP 20788892 A 20200928**

Priority

IB 2020059032 W 20200928

Abstract (en)

[origin: WO2022064260A1] The invention relates to the field of robotics, in particular, to a gripping device of a manipulator. The gripping device can be used when lifting, transporting and stacking transported free-form objects. A gripping device of a manipulator is developed, which comprises a manipulator arm attachment fitting, one main guide rail connected to the manipulator arm attachment fitting, at least one movable guide rail installed on the main guide rail and being movable along it, at least two gripping elements installed on the movable guide rail and being movable along it, wherein the device comprises a controller, as well as at least one actuator of the movable guide rail and at least one actuator of the gripping elements, which are coupled to the controller with a possibility of acquiring information about the coordinates that define the form of the objects to be gripped and coupled to the movable guide rail and the gripping elements with a possibility of moving them according to the acquired coordinates. Thus, a gripping device of a manipulator is developed, which does not depend on static friction force, the design of which ensures achieving a technical result consisting in providing automatic configuring of the device for each object of a unique form to be gripped.

IPC 8 full level

**B25J 15/00** (2006.01)

CPC (source: EP)

**B25J 15/0061** (2013.01)

Citation (search report)

See references of WO 2022064260A1

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

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**WO 2022064260 A1 20220331**; EP 4217156 A1 20230802

DOCDB simple family (application)

**IB 2020059032 W 20200928**; EP 20788892 A 20200928