

Title (en)

COMPONENT HANDLING DEVICE FOR COMPONENT HANDLING, AND INJECTION-MOULDING MACHINE EQUIPPED THEREWITH

Title (de)

BAUTEIL-HANDHABUNGSVORRICHTUNG ZUM BAUTEILHANDLING UND DAMIT AUSGERÜSTETE SPRITZGIEßMASCHINE

Title (fr)

DISPOSITIF DE MANIPULATION DE COMPOSANT SERVANT À LA MANUTENTION DE COMPOSANT ET MACHINE DE MOULAGE PAR INJECTION ÉQUIPÉE DE CELUI-CI

Publication

EP 3959041 A1 20220302 (DE)

Application

EP 20722223 A 20200407

Priority

- DE 102019205940 A 20190425
- EP 2020059925 W 20200407

Abstract (en)

[origin: WO2020216613A1] A component handling device for component handling in work machines or processing machines, in particular in injection-moulding machines, comprises - a base linear axis (T1) extending outside or inside the handling space (HR) of the handling device, - a multiaxial arrangement (9) that is able to be moved in translation on the base linear axis (T1) and has = a main axis of rotation (R1) extending orthogonally to the base linear axis (T1), = a secondary axis of rotation (R2) that is directed parallel thereto, is linked to the main axis of rotation (R1) via a first robot arm (11), and guides a second robot arm (12) in a pivotable manner over the handling space (HR), and = a vertical linear axis (T2) that is linked to the second robot arm (12) eccentrically with respect to the secondary axis of rotation (R2), and = a gripping device (5), linked to the vertical linear axis (T2), for a component (BT) to be handled.

IPC 8 full level

B25J 5/02 (2006.01); **B25J 9/04** (2006.01)

CPC (source: EP US)

B25J 5/02 (2013.01 - EP); **B25J 9/044** (2013.01 - EP); **B29C 45/42** (2013.01 - EP); **B65G 47/90** (2013.01 - US)

Citation (search report)

See references of WO 2020216613A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2020216613 A1 20201029; CA 3138003 A1 20201029; CN 114364491 A 20220415; DE 102019205940 A1 20201029; EP 3959041 A1 20220302; JP 2022530120 A 20220627; MX 2021012806 A 20211112; US 2022177237 A1 20220609

DOCDB simple family (application)

EP 2020059925 W 20200407; CA 3138003 A 20200407; CN 202080031302 A 20200407; DE 102019205940 A 20190425; EP 20722223 A 20200407; JP 2021563315 A 20200407; MX 2021012806 A 20200407; US 202017594384 A 20200407