

Title (en)

METHOD FOR CHANGING A WORKPIECE CARRIER DEVICE, WORKPIECE CARRIER DEVICE, AND PRODUCTION PLANT FOR COATING SUBSTRATES

Title (de)

VERFAHREN ZUM WECHSELN EINER WERKSTÜCKTRÄGERVORRICHTUNG, WERKSTÜCKTRÄGERVORRICHTUNG UND PRODUKTIONSANLAGE ZUM BESCHICHTEN VON SUBSTRATEN

Title (fr)

PROCÉDÉ DE CHANGEMENT D'UN DISPOSITIF PORTE-PIÈCE À TRAVAILLER, DISPOSITIF PORTE-PIÈCE À TRAVAILLER ET INSTALLATION DE PRODUCTION POUR LE REVÊTEMENT DE SUBSTRATS

Publication

**EP 4189135 A1 20230607 (DE)**

Application

**EP 21748538 A 20210714**

Priority

- DE 102020121241 A 20200812
- EP 2021069596 W 20210714

Abstract (en)

[origin: WO2022033792A1] The invention relates to a method for changing a workpiece carrier device (50) in a production plant (10) for coating substrates (12). The method comprises the following steps: transferring a workpiece carrier device (50) by means of a robot (16) from a provision zone (20) to a processing zone (14); detachably coupling the workpiece carrier device (50) to the production plant (10) via a coupling interface (60) of the workpiece carrier device (50) by further transferring of the workpiece carrier device (50) by means of the robot (16); wherein, in order to detachably couple the workpiece carrier device (50) to the production plant (10), a connecting arm (58) of the workpiece carrier device (50) is coupled to an attachment portion (26) of the production plant (10), as a result of which the connecting arm (58) is fixed in a stationary position relative to the attachment portion (26), and wherein, in order to detachably couple the workpiece carrier device (50) to the production plant (10), a driveshaft (56) of the workpiece carrier device (50) is coupled to a driving shaft (28) of the production plant (10), as a result of which the driveshaft (56) is rotationally drivably connected to the driving shaft (28).

IPC 8 full level

**C23C 14/50** (2006.01)

CPC (source: EP US)

**B05C 13/00** (2013.01 - US); **B25J 11/0075** (2013.01 - US); **C23C 14/505** (2013.01 - EP)

Cited by

CN117000522A

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 2022033792 A1 20220217**; CN 116057201 A 20230502; DE 102020121241 A1 20220217; DE 102020121241 B4 20240704; EP 4189135 A1 20230607; JP 2023541794 A 20231004; US 2023302487 A1 20230928

DOCDB simple family (application)

**EP 2021069596 W 20210714**; CN 202180055936 A 20210714; DE 102020121241 A 20200812; EP 21748538 A 20210714; JP 2023510391 A 20210714; US 202118020845 A 20210714