

Title (en)

WORKPIECE HANDLING APPARATUS AND METHOD FOR BATCH PROCESSING PLANAR WORKPIECES

Title (de)

WERKSTÜCKHANDHABUNGSVORRICHTUNG UND VERFAHREN ZUR STAPELVERARBEITUNG VON PLATTENFÖRMIGEN WERKSTÜCKEN

Title (fr)

DISPOSITIF DE MANUTENTION DE PIÈCES ET PROCÉDÉ D'USINAGE EN PILE DE PIÈCES EN FORME DE PLAQUE

Publication

EP 3833520 A1 20210616 (DE)

Application

EP 19752459 A 20190805

Priority

- DE 102018119280 A 20180808
- EP 2019070991 W 20190805

Abstract (en)

[origin: WO2020030575A1] The invention relates to a workpiece handling apparatus for handling at least one planar workpiece, which workpiece preferably consists at least in portions of wood, wood-containing material, composite material or plastics material, the workpiece handling device comprising a lifting unit and a gripping unit, the gripping unit being designed to perform a displacement movement in parallel with at least one first direction, and the gripping unit comprising a workpiece holding device that is designed such that the workpiece holding device can become reversibly, frictionally and/or interlockingly connected to at least one planar workpiece, characterised in that the gripping unit is designed such that the workpiece holding device can perform a displacement movement in parallel with a second direction, which is different from the first direction, and the lifting unit comprises at least one guide element that is designed so as to perform a displacement movement in parallel with the second direction and is also designed to restrict at least one degree of freedom of movement of the at least one planar workpiece.

IPC 8 full level

B27M 1/08 (2006.01); **B23Q 7/04** (2006.01); **B65G 59/04** (2006.01)

CPC (source: EP US)

B23Q 7/005 (2013.01 - EP); **B23Q 7/04** (2013.01 - EP); **B23Q 7/103** (2013.01 - EP); **B27M 1/08** (2013.01 - EP); **B65G 47/90** (2013.01 - US); **B65G 59/045** (2013.01 - EP)

Citation (search report)

See references of WO 2020030575A1

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

DOCDB simple family (publication)

DE 102018119280 A1 20200213; CN 112512765 A 20210316; EP 3833520 A1 20210616; US 2021309465 A1 20211007; WO 2020030575 A1 20200213

DOCDB simple family (application)

DE 102018119280 A 20180808; CN 201980051196 A 20190805; EP 19752459 A 20190805; EP 2019070991 W 20190805; US 201917266981 A 20190805