

Title (en)
PACKING GRIPPER SYSTEM

Title (de)
EINBOX-GREIFERSYSTEM

Title (fr)
SYSTÈME DE PRÉHENSEUR DE MISE EN PLACE

Publication
EP 3849928 A1 20210721 (DE)

Application
EP 19779376 A 20190912

Priority
• DE 102018007205 A 20180912
• EP 2019074377 W 20190912

Abstract (en)
[origin: WO2020053340A1] In order to be able to grip, clamp and lift stacks of plates and sheets, which consist of vertically oriented individual plates and individual sheets lying on and pressed flat against one another and which have different dimensions, in carrying and handling stations without having to reconfigure them, a load-bearing device is needed which has a simple structure, can be infinitely adjusted, is equipped with an appropriate drive and possesses large clamping and frictional forces, and can be used as an outer gripper on vertical clamping faces. A drive module (2) in the form of an electromotively driven linear drive (4), three angle- and scissor-joint lever assemblies (5) which are arranged symmetrically one below the other, and a gripping finger load-bearing device (8), which can be adjusted and readjusted by means of said lever assemblies and has opposing, clamping, rod-shaped and rigid gripping fingers (10), are mounted on a frame (1). The invention can be used in particular for packing battery modules provided in stack form into battery containers.

IPC 8 full level
B65G 47/90 (2006.01); **B25J 15/02** (2006.01)

CPC (source: EP US)
B25J 15/0266 (2013.01 - EP US); **B65G 47/90** (2013.01 - EP US); **B65G 2201/022** (2013.01 - EP US)

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 102018007205 A1 20200312; CN 112996739 A 20210618; EP 3849928 A1 20210721; MX 2021003038 A 20210811;
US 11938615 B2 20240326; US 2022048203 A1 20220217; WO 2020053340 A1 20200319; WO 2020053340 A9 20200618

DOCDB simple family (application)
DE 102018007205 A 20180912; CN 201980074239 A 20190912; EP 19779376 A 20190912; EP 2019074377 W 20190912;
MX 2021003038 A 20190912; US 201917275426 A 20190912