

Title (en)
HANDLING DEVICE AND METHOD FOR PICKING UP FLAT ARTICLES

Title (de)
HANDHABUNGSVORRICHTUNG UND VERFAHREN ZUR AUFNAHME FLÄCHIGER GEGENSTÄNDE

Title (fr)
DISPOSITIF DE MANIPULATION ET PROCÉDÉ DE RAMASSAGE D'OBJETS PLATS

Publication
EP 3265413 A2 20180110 (DE)

Application
EP 16705922 A 20160217

Priority
• DE 102015103147 A 20150304
• EP 2016053375 W 20160217

Abstract (en)
[origin: WO2016139063A2] The invention relates to a handling device (1) and a method for picking up flat articles. The handling device (1) comprises a plurality of radial arms (3), each having at least one suction head (6) for gripping the flat article. The handling device further comprises a central flange section (4) from which the plurality of radial arms (3) extend away in different directions and which has a supporting function for the plurality of radial arms (3). The central flange section (4) comprises a conduit system which is fluidically connected to the suction heads (6) in order to transmit a negative pressure onto the suction heads (6) of the plurality of radial arms (3).

IPC 8 full level
B65H 3/08 (2006.01); **B65H 3/14** (2006.01)

CPC (source: EP)
B65H 3/0883 (2013.01); **B65H 3/0891** (2013.01); **B65H 3/14** (2013.01); **F04F 5/20** (2013.01); **F04F 5/46** (2013.01); **F04F 5/466** (2013.01); **B65H 2406/3661** (2013.01); **B65H 2406/42** (2013.01)

Citation (search report)
See references of WO 2016139063A2

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 102015103147 A1 20160908; CN 208843361 U 20190510; EP 3265413 A2 20180110; EP 3265413 B1 20210825; SI 3265413 T1 20220131; WO 2016139063 A2 20160909; WO 2016139063 A3 20161027

DOCDB simple family (application)
DE 102015103147 A 20150304; CN 201690000532 U 20160217; EP 16705922 A 20160217; EP 2016053375 W 20160217; SI 201631410 T 20160217