

Title (en)

Device for picking up and/or transporting flexible and flat products

Title (de)

Vorrichtung zum Ab-und/oder Weitertransportieren von flexiblen, flächigen Erzeugnissen

Title (fr)

Dispositif pour prélever et/ou transporter des produits flexibles et plats

Publication

EP 1055620 B1 20041103 (DE)

Application

EP 00110601 A 20000518

Priority

CH 99899 A 19990528

Abstract (en)

[origin: EP1055620A1] The arrangement has a number of gripping devices (3) in sequence and movable along a gripper transport path and a number of suction elements (2) movable along a suction element transport path to a holder for each product (9) in an acquisition and trans region. The suction element transport path runs along or parallel to the gripper transport path in the acquisition and transfer region.

IPC 1-7

B65H 3/42; **B65H 5/08**

IPC 8 full level

B65H 3/08 (2006.01); **B65H 3/42** (2006.01); **B65H 5/08** (2006.01)

CPC (source: EP US)

B65H 3/42 (2013.01 - EP US); **B65H 5/085** (2013.01 - EP US); **B65H 29/6609** (2013.01 - EP US); **B65H 2301/4472** (2013.01 - EP US); **B65H 2301/44732** (2013.01 - EP US); **B65H 2301/4474** (2013.01 - EP US)

C-Set (source: EP US)

1. **B65H 2301/44732** + **B65H 2220/01**
2. **B65H 2301/4474** + **B65H 2220/02**

Cited by

CH710449A1; EP1086914A1; AU2006310965B2; US7926665B2; WO2007051324A1; US7703760B2; US10040655B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1055620 A1 20001129; **EP 1055620 B1 20041103**; AT E281389 T1 20041115; AU 3634600 A 20001130; AU 764208 B2 20030814; CA 2309239 A1 20001128; CA 2309239 C 20070717; DE 50008473 D1 20041209; DK 1055620 T3 20041206; ES 2226648 T3 20050401; JP 2000335760 A 20001205; JP 4921631 B2 20120425; RU 2260554 C2 20050920; US 6554268 B1 20030429

DOCDB simple family (application)

EP 00110601 A 20000518; AT 00110601 T 20000518; AU 3634600 A 20000522; CA 2309239 A 20000524; DE 50008473 T 20000518; DK 00110601 T 20000518; ES 00110601 T 20000518; JP 2000161146 A 20000526; RU 2000113598 A 20000526; US 57963400 A 20000526