

Title (en)
DEVICE FOR THE DELIVERY OF FLAT OBJECTS

Title (de)
VORRICHTUNG ZUM ZUFÜHREN VON FLACHEN GEGENSTÄNDEN

Title (fr)
DISPOSITIF D'ALIMENTATION D'OBJETS PLATS

Publication
EP 1414724 A1 20040506 (DE)

Application
EP 02764538 A 20020806

Priority
• DE 0202882 W 20020806
• DE 10139231 A 20010809

Abstract (en)
[origin: WO03016185A1] The invention relates to a device for the delivery of flat objects to a friction/suction picking device with a suction head (2), said objects standing in a stack on a thin edge thereof on a support surface, arranged on a stop surface (6) and transported in the direction of the picking point using a conveyor means (5). A sensor (7), for measuring the vacuum in the suction head (2), is arranged on or in the suction head (2), which is connected to the drive controller on the conveyor means (5). Depending on the measured vacuum the conveyor means (5) can be controlled such that the front object has an inclination as low as possible with the lowest possible stack pressure on the at least one friction picking device (1).

IPC 1-7
B65H 1/14; **B65H 1/02**

IPC 8 full level
B65H 1/14 (2006.01); **B65H 3/12** (2006.01)

CPC (source: EP US)
B65H 1/14 (2013.01 - EP US); **B65H 2301/321** (2013.01 - EP US); **B65H 2513/40** (2013.01 - EP US); **B65H 2515/34** (2013.01 - EP US); **B65H 2701/1916** (2013.01 - EP US)

Citation (search report)
See references of WO 03016185A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)
WO 03016185 A1 20030227; DE 10139231 C1 20030313; DE 50205214 D1 20060112; EP 1414724 A1 20040506; EP 1414724 B1 20051207; JP 2004538224 A 20041224; US 2004201161 A1 20041014; US 7108258 B2 20060919

DOCDB simple family (application)
DE 0202882 W 20020806; DE 10139231 A 20010809; DE 50205214 T 20020806; EP 02764538 A 20020806; JP 2003521124 A 20020806; US 76321504 A 20040126