

Title (en)  
APPARATUS AND METHOD FOR DRAWING IN FLAT MATERIAL PIECES AND IN-REGISTER TRANSPORTATION OF THE FLAT MATERIAL  
PIECES

Title (de)  
VORRICHTUNG UND VERFAHREN ZUM EINZIEHEN VON FLACHMATERIALSTÜCKEN UND REGISTERGENAUEN TRANSPORTIEREN DER  
FLACHMATERIALSTÜCKE

Title (fr)  
DISPOSITIF ET PROCÉDÉ POUR INTRODUIRE DES PIÈCES DE MATIÈRE PLATE ET TRANSPORTER LES PIÈCES DE MATIÈRE PLATE  
REPÉRÉES EXACTEMENT

Publication  
**EP 2170749 A1 20100407 (DE)**

Application  
**EP 08773990 A 20080715**

Priority  
• EP 2008005740 W 20080715  
• DE 102007035435 A 20070728

Abstract (en)  
[origin: WO2009015761A1] An apparatus is described for drawing in flat material pieces and for in-register transportation of the flat material pieces to a work station (b), said apparatus comprising a gripper device (2) for gripping the front edge of a flat material piece and accelerating the flat material piece, and at least one sheet transfer roller (3) for transferring the accelerated flat material piece from the gripper device (2). The sheet transfer roller comprises at least one roller gripper (4), which is effective on the circumference of the same, for gripping the accelerated flat material piece. Said apparatus is intended to be developed in such a manner that it permits an in-register drawing in of flat material pieces, in particular sheets, onto a suction belt (7) of the rotary machine, said suction belt transporting the flat material pieces onwards. For this purpose, the sheet transfer roller (3), in a part of the circumference thereof which, in the direction of rotation thereof, adjoins behind the roller gripper, is provided with a plurality of suction holes (5), and a suction-belt transporting device is provided with at least one suction belt (7), wherein the transition of the roller gripper (4) from the closed position to the open position and the application of suction air to the suction holes can be controlled.

IPC 8 full level  
**B65H 5/10** (2006.01); **B65H 5/12** (2006.01); **B65H 5/22** (2006.01)

CPC (source: EP US)  
**B65H 5/10** (2013.01 - EP US); **B65H 5/12** (2013.01 - EP US); **B65H 11/005** (2013.01 - EP US); **B65H 2301/44714** (2013.01 - EP US); **B65H 2301/44716** (2013.01 - EP US); **B65H 2301/4472** (2013.01 - EP US); **B65H 2301/44735** (2013.01 - EP US); **B65H 2801/42** (2013.01 - EP US); **Y10S 271/90** (2013.01 - EP)

Citation (search report)  
See references of WO 2009015761A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**DE 102007035435 A1 20090205**; **DE 102007035435 B4 20090416**; EP 2170749 A1 20100407; JP 2010534601 A 20101111; JP 4944992 B2 20120606; US 2010201060 A1 20100812; US 8123221 B2 20120228; WO 2009015761 A1 20090205

DOCDB simple family (application)  
**DE 102007035435 A 20070728**; EP 08773990 A 20080715; EP 2008005740 W 20080715; JP 2010518524 A 20080715; US 67116008 A 20080715