

Title (en)

Device and method for turning stacks of sheet-shaped material

Title (de)

Vorrichtung und Verfahren zum Wenden von Stapeln aus bogenförmigem Material

Title (fr)

Dispositif et procédé de renversement de piles de matériaux en feuilles

Publication

**EP 2447197 A3 20140827 (DE)**

Application

**EP 11183098 A 20110928**

Priority

DE 102010049376 A 20101026

Abstract (en)

[origin: EP2447197A2] The device (1) has a swivel fork (12) that is provided with an upper gripper (9), a lower gripper (10) and a stack stop portion (11). One end of the swivel fork is provided with an opening so as to receive the stacks. The other side of the swivel fork is supported by a horizontal pivot shaft (8) that is arranged at the center region relative to the swivel fork. The horizontal pivot shaft is set to extend in a direction transverse to an introduction direction of the stacks. An independent claim is included for method for turning stacks of sheet-shaped material.

IPC 8 full level

**B65H 15/02** (2006.01); **B65H 5/06** (2006.01)

CPC (source: EP US)

**B65H 1/30** (2013.01 - EP US); **B65H 5/006** (2013.01 - EP US); **B65H 5/066** (2013.01 - EP US); **B65H 15/02** (2013.01 - EP US); **B65H 31/3018** (2013.01 - EP US); **B65H 2301/4222** (2013.01 - EP US); **B65H 2301/42242** (2013.01 - EP US); **B65H 2404/1523** (2013.01 - EP US); **B65H 2404/1544** (2013.01 - EP US); **B65H 2405/51** (2013.01 - EP US); **B65H 2701/1764** (2013.01 - EP US)

Citation (search report)

- [XAI] EP 0802137 A2 19971022 - WINDMOELLER & HOELSCHER [DE]
- [XA] EP 0329945 A1 19890830 - FOCKE & CO [DE]
- [XA] DE 8901996 U1 19890406
- [A] US 4700941 A 19871020 - SHILL DAVID [US]

Cited by

US9782802B2; WO2014067848A3

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)

**EP 2447197 A2 20120502**; **EP 2447197 A3 20140827**; **EP 2447197 B1 20151230**; CN 102452565 A 20120516; CN 102452565 B 20160120; DE 102010049376 A1 20120426; ES 2562926 T3 20160309; JP 2012091937 A 20120517; JP 5868117 B2 20160224; PL 2447197 T3 20160630; US 2012099956 A1 20120426; US 9011074 B2 20150421

DOCDB simple family (application)

**EP 11183098 A 20110928**; CN 201110265765 A 20110901; DE 102010049376 A 20101026; ES 11183098 T 20110928; JP 2011235202 A 20111026; PL 11183098 T 20110928; US 201113281633 A 20111026