

Title (en)

TRANSFER DEVICE FOR TRANSFERRING A FOLDING BOX

Title (de)

ÜBERGABEVORRICHTUNG ZUR ÜBERGABE EINER FALTSCHACHTEL

Title (fr)

DISPOSITIF DE TRANSFERT DESTINÉ À UN TRANSFERT DE BOÎTE EN CARTON PLIABLE

Publication

EP 2029435 B1 20091007 (DE)

Application

EP 08758673 A 20080521

Priority

- EP 2008004068 W 20080521
- DE 102007023964 A 20070523

Abstract (en)

[origin: CA2665305A1] The invention relates to a transfer device for transferring a folding box from a stack in which said box is stored in a flat state onto a conveyor device, said transfer device comprising a holding device that grasps the folding box and holds said box during transfer, said holding device being movable on a cycloid path having multiple reversal points and curved arcs located therebetween. The transfer device has a base lever that performs a continuous, uniform circular motion, a first lever pair having a first lever mounted on the base lever in a pivoting fashion via a first joint, and a second lever mounted on the first lever in a pivoting fashion via a second joint, and a second lever pair having a third lever mounted on the base lever in a pivoting fashion via a third joint, and a fourth lever mounted on the third lever in a pivoting fashion via a fourth joint. The holding device is attached to a holding block that is connected by an additional joint in a pivoting fashion with the second lever of the first lever pair. A pivotally mounted guide piece is provided that comprises a linear guide. A sled piece is configured on the holding block that sits on the linear guide and is movable along said linear guide.

IPC 8 full level

B65B 43/18 (2006.01); **B31B 5/80** (2006.01); **B31B 50/76** (2017.01); **B65B 43/32** (2006.01)

CPC (source: EP US)

B65B 43/185 (2013.01 - EP US); **B65B 43/325** (2013.01 - EP US); **B31B 50/80** (2017.07 - EP US); **B31B 50/804** (2017.07 - EP US); **B31B 2100/00** (2017.07 - EP US); **B31B 2120/30** (2017.07 - EP US)

Designated contracting state (EPC)

DE FR GB IE IT SE

DOCDB simple family (publication)

DE 102007023964 A1 20081127; BR PI0804515 A2 20110830; CA 2665305 A1 20081127; DE 502008000137 D1 20091119; EP 2029435 A1 20090304; EP 2029435 B1 20091007; US 2009233779 A1 20090917; US 7976449 B2 20110712; WO 2008141815 A1 20081127

DOCDB simple family (application)

DE 102007023964 A 20070523; BR PI0804515 A 20080521; CA 2665305 A 20080521; DE 502008000137 T 20080521; EP 08758673 A 20080521; EP 2008004068 W 20080521; US 31143008 A 20080521