

Title (en)  
DEVICE FOR TRANSFERRING A FOLDED BOX

Title (de)  
VORRICHTUNG ZUR ÜBERGABE EINER FALTSCHACHTEL

Title (fr)  
DISPOSITIF DE TRANSFERT D'UNE BOITE PLIANTE

Publication  
**EP 1159124 B1 20021023 (DE)**

Application  
**EP 00922490 A 20000301**

Priority  
• DE 19909754 A 19990305  
• EP 0001714 W 20000301

Abstract (en)  
[origin: US6503180B1] A device for transferring a folded box from a magazine accommodating flat folded boxes to a circulating transport device thereby simultaneously erecting same, comprises a holding device transferring and carrying the folded box during transfer, and an erecting member. The holding device and the erecting member are rotatably disposed on a planetary part of a planetary gearing and are moved along a hypocycloid path having several turning points and intermediate curves. The planetary part is rotatably disposed on a planetary support which rotates about a stationary sun axis. Via a first gearing arrangement, the holding device is subjected to a superimposed, first correcting rotary motion defined along a first control curve and, via a second gearing arrangement, the erecting member is subjected to a superimposed, second correcting rotary motion defined along a second control curve. Both gearing arrangements are disposed substantially coaxially with respect to one another.

IPC 1-7  
**B31B 5/80**

IPC 8 full level  
**B31B 5/80** (2006.01); **B65B 43/18** (2006.01); **B65B 43/30** (2006.01); **B31B 100/00** (2017.01); **B31B 120/30** (2017.01)

CPC (source: EP US)  
**B65B 43/185** (2013.01 - EP US); **B65B 43/305** (2013.01 - EP US); **B31B 50/804** (2017.08 - EP US); **B31B 2100/00** (2017.08 - EP US); **B31B 2120/30** (2017.08 - EP US)

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)  
**US 6503180 B1 20030107**; AT E226511 T1 20021115; DE 19909754 A1 20000907; DE 50000682 D1 20021128; DK 1159124 T3 20030224; EP 1159124 A1 20011205; EP 1159124 B1 20021023; ES 2182799 T3 20030316; JP 2002538055 A 20021112; WO 0051811 A1 20000908

DOCDB simple family (application)  
**US 91444701 A 20010828**; AT 00922490 T 20000301; DE 19909754 A 19990305; DE 50000682 T 20000301; DK 00922490 T 20000301; EP 0001714 W 20000301; EP 00922490 A 20000301; ES 00922490 T 20000301; JP 2000602461 A 20000301