

Title (en)

Apparatus for transferring flat objects, especially folding boxes.

Title (de)

Vorrichtung zum Überführen flacher Gegenstände, insbesondere Faltschachteln.

Title (fr)

Dispositif de transfert d'objets plats, en particulier de boîtes pliantes.

Publication

EP 0434961 B1 19940622 (DE)

Application

EP 90121930 A 19901116

Priority

DE 3941867 A 19891219

Abstract (en)

[origin: JPH03200516A] PURPOSE: To feed a foldable carton from all side of a magazine onto one end of a box-making machine by positioning a feeding station and a receiving section facing each other, disposing suction heads on a rotor by shifting them by a specified angle and specifying the radius direction intervals of suckers. CONSTITUTION: Suction heads 22 disposed by shifting 120 deg. respectively all over the whole periphery of a rotor 20 are guided along a cycloid path C for the purpose of delivering a foldable carton 1 from a feeding station A to a receiving station B. For the purpose of forming the cycloid path C, the gear ratio between a sun gear 35 and a planet gear 33 is set as 4:3 and the radius direction intervals of suction faces of respective suction heads 22 are set in the range of three times of the eccentricity E of crank pins to the rotation axial line of a crank 30. The interval between the feeding station A and the receiving station B is set as two times of the total of the eccentricity distance E of the crank 30 and the spacing D between the suction heads 22 and the axial line of the rotor 20 or the axial line of the crank pins.

IPC 1-7

B31B 5/80; **B65B 43/26**; **B65B 43/18**

IPC 8 full level

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CPC (source: EP US)

B65B 43/185 (2013.01 - EP US); **B65B 43/265** (2013.01 - EP US); **B31B 50/804** (2017.07 - EP US); **B31B 2100/00** (2017.07 - EP US); **B31B 2120/30** (2017.07 - EP US)

Cited by

EP3326796A1; CN109153466A; US5613828A; CN110902027A; CN103359325A; EP0693425A3; DE19845384B4; CN108263672A; EP0806291A3; EP0806292A3; US7976449B2; US6913568B2; WO2008141815A1; US11413840B2

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DOCDB simple family (application)

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