

Title (en)

Apparatus for taking, conveying, erecting and positioning folding boxes.

Title (de)

Vorrichtung zum Entnehmen, Transportieren, Aufrichten und Einsetzen von Faltschachteln.

Title (fr)

Dispositif pour prendre, transporter, dresser et positionner des boîtes pliantes.

Publication

EP 0580958 B1 19951122 (DE)

Application

EP 93105908 A 19930410

Priority

DE 4224897 A 19920728

Abstract (en)

[origin: EP0580958A1] The apparatus has a drivable satellite carrier (10) which can be rotated about a sun axle (8) and a satellite part (11) which is mounted on the satellite carrier (10) so as to be rotatable about a satellite axle (12) and supports a gripping element (5) for the folding box (1) and a satellite wheel (13) which runs via an intermediate wheel (14) on a fixed sun wheel (15), so that the gripper head circulates on an endless hypocycloidal path which is centred on the sun axle and has a plurality of turning points. An erecting element (17) which comes to rest against the folding box (1) is rotatably mounted on the satellite part (11) and is driven with respect to the gripping element (5) by means of an integral sun wheel (25, 25') and an integral satellite wheel (26, 26') which is mounted so as to rotate with respect to the satellite part (11) about the satellite axle (12). When the sun wheel (25, 25') is stationary and the satellite carrier (10) is rotating, the satellite wheel (26, 26') experiences the same rotation as the satellite part (11). The erecting element (17) supports a drive wheel (28) which is connected in a driven manner to the satellite wheel (26, 26'). To permit rotation of the erecting element (17) with respect to the gripping element (5), the sun wheel (25, 25') can be rotated with respect to the sun wheel (15) and can be controlled with respect to this rotary movement.

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B31B 5/80

IPC 8 full level

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CPC (source: EP)

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Cited by

EP1223131A3; CN102139813A; EP1388495A1; US5997458A; EP0765736A1; US5910078A; EP1714880A1; US8047530B2; US7040479B2; US7328561B2; WO2007015049A1

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