

Title (en)
PHASED CONVEYOR

Publication
EP 0386442 A3 19910327 (DE)

Application
EP 90101701 A 19900129

Priority
CH 84389 A 19890307

Abstract (en)
[origin: JPH02300057A] PURPOSE: To simplify the construction of a gripper to facilitate assembly and adjustment by forming the cross section of a rail symmetrically relative to two symmetry planes crossing at right angles so that an intersection of both the symmetry planes can be approximately aligne with a longitudinal axis of the cross section of the rail. CONSTITUTION: The longitudunal axis of a chain is expressed by a line extending in right and in left directions through the center of a cross-pipe 20. The cross-piece 20 is provided with two shafts 21 intersecting at right angles, and one shaft of the two perpendicular shafts is turnably supported on links 2 and 3 and the other shaft is turnably supported on a shackle 22. The projected part of the shackle 22 is turnably supported on the shaft 23 of turning movement. Thus, since the links 2 and 3 can be rotated around the longitudinal axis of the link chain 1, and further can be rotated around the two perpendicular shafts of the shafts 21, they can be simultaneously turned around the three perpendicular shafts.

IPC 1-7
B65H 29/04

IPC 8 full level
B65G 21/22 (2006.01); **B65G 17/46** (2006.01); **B65H 29/04** (2006.01)

CPC (source: EP US)
B65H 29/003 (2013.01 - EP US); **B65H 2402/54** (2013.01 - EP US)

Citation (search report)
• [AD] WO 8603476 A1 19860619 - ROCKWELL INTERNATIONAL CORP [US]
• [A] DE 2822060 A1 19781214 - FERAG AG

Cited by
EP2840049A1; US5178262A; EP1029817A3; US5988551A; US6237751B1; WO9816453A3; WO9107342A1; EP0456978B1

Designated contracting state (EPC)
AT DE FR GB IT

DOCDB simple family (publication)
EP 0386442 A2 19900912; EP 0386442 A3 19910327; CH 677652 A5 19910614; JP H02300057 A 19901212; US 5064187 A 19911112

DOCDB simple family (application)
EP 90101701 A 19900129; CH 84389 A 19890307; JP 1378790 A 19900125; US 48651290 A 19900228