

Title (en)

Conveyor gripper for conveying printed products of one or more sheets

Title (de)

Greifer für eine Fördereinrichtung zum Fördern von ein- oder mehrblättrigen Druckereierzeugnissen

Title (fr)

Pince pour transporteur pour transporter des produits imprimés à une ou plusieurs feuilles

Publication

**EP 0557680 B1 19960522 (DE)**

Application

**EP 93100004 A 19930102**

Priority

CH 49592 A 19920219

Abstract (en)

[origin: US5388820A] A gripper for use in a conveying device which conveys printed products is disclosed. The gripper has two gripper parts which are mounted so as to be freely pivotable on a shaft. The first gripper part can be pivoted between an open position and a clamping position. This purpose is served by a closing lever which is seated on the shaft so as to be fixed against rotation. The rotary movement of the shaft is transmitted via a resting part, which is connected to said shaft so as to be fixed against rotation, and a compression spring which is supported on the resting part and, at the other end, acts on the first gripper part. The closing lever supports a follower roller which is mounted so as to be freely rotatable and interacts with closing links or cams. A locking device is provided for locking the first gripper part in the clamping position. In order to allow the first gripper part to close in any pivot position of the gripper and with the gripper moving in opposite directions, the closing lever encloses an angle alpha which is less than 90 DEG with the first gripper part.

IPC 1-7

**B65H 29/04**

IPC 8 full level

**B65G 17/46** (2006.01); **B65G 47/86** (2006.01); **B65H 5/08** (2006.01); **B65H 29/04** (2006.01)

CPC (source: EP KR US)

**B65H 29/003** (2013.01 - EP KR US); **B65H 29/669** (2013.01 - EP KR US); **B65H 2301/44712** (2013.01 - EP KR US);  
**B65H 2301/44732** (2013.01 - EP KR US); **B65H 2301/4474** (2013.01 - EP KR US); **B65H 2701/1932** (2013.01 - KR)

Cited by

CN105358458A; US6186500B1; US5503264A; AU673434B2; US9708133B2; EP0709218A1; WO2009065242A1; EP2386512A1; US8550460B2

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI NL SE

DOCDB simple family (publication)

**US 5388820 A 19950214**; AT E138349 T1 19960615; AU 3317093 A 19931007; AU 654078 B2 19941020; BR 9300598 A 19930824;  
CA 2089821 A1 19930820; CA 2089821 C 20000111; DE 59302635 D1 19960627; EP 0557680 A1 19930901; EP 0557680 B1 19960522;  
ES 2087569 T3 19960716; FI 106629 B 20010315; FI 930714 A0 19930218; FI 930714 A 19930820; GR 3020659 T3 19961031;  
JP H061484 A 19940111; JP H0784272 B2 19950913; KR 930017792 A 19930920; KR 970009255 B1 19970609; NO 180530 B 19970127;  
NO 180530 C 19970507; NO 930541 D0 19930216; NO 930541 L 19930820; NZ 245925 A 19950427

DOCDB simple family (application)

**US 24905494 A 19940525**; AT 93100004 T 19930102; AU 3317093 A 19930218; BR 9300598 A 19930217; CA 2089821 A 19930218;  
DE 59302635 T 19930102; EP 93100004 A 19930102; ES 93100004 T 19930102; FI 930714 A 19930218; GR 960402017 T 19960731;  
JP 2664593 A 19930216; KR 930002240 A 19930218; NO 930541 A 19930216; NZ 24592593 A 19930217