

Title (en)
TURNING DEVICE

Title (de)
WENDEVORRICHTUNG

Title (fr)
DISPOSITIF DE RENVERSEMENT

Publication
EP 1414727 B1 20090318 (DE)

Application
EP 02748589 A 20020617

Priority
• DE 0202199 W 20020617
• DE 10131272 A 20010628

Abstract (en)
[origin: WO03002440A2] A turning device comprises a turning bar for diverting a material web, comprising a sleeve provided with holes, an inner chamber supplied with compressed air, a closing body and a frame which supports the turning bar with the freedom to pivot about 90 DEG , whereby the closing body may be moved between two positions within the inner chamber in which the above seals off one group of holes. The turning bar is not connected to the frame at one of the longitudinal edges thereof. A compressed air supply line runs at the other longitudinal edge thereof, through a joint connecting the turning bar to the frame.
[origin: WO03002440A2] A turning device comprises a turning bar (6) for diverting a material web, comprising a sleeve provided with holes, an inner chamber (13) supplied with compressed air, a closing body (03) and a frame which supports the turning bar (6) with the freedom to pivot about 90 DEG , whereby the closing body may be moved between two positions within the inner chamber in which the above seals off one group of holes (08). The turning bar (6) is not connected to the frame at one of the longitudinal edges thereof. A compressed air supply line (06, 29, 31, 32) runs at the other longitudinal edge thereof, through a joint connecting the turning bar to the frame.

IPC 8 full level
B65H 23/24 (2006.01); **B65H 23/32** (2006.01)

CPC (source: EP US)
B65H 23/24 (2013.01 - EP US); **B65H 23/32** (2013.01 - EP US); **B65H 2406/1115** (2013.01 - 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 TR

DOCDB simple family (publication)
WO 03002440 A2 20030109; WO 03002440 A3 20030522; WO 03002440 B1 20031113; AT E425933 T1 20090415;
AU 2002319087 A1 20030303; DE 10131272 A1 20030116; DE 10131272 B4 20060330; DE 50213369 D1 20090430; EP 1414727 A2 20040506;
EP 1414727 B1 20090318; JP 2004530611 A 20041007; JP 3980553 B2 20070926; US 2004149855 A1 20040805; US 7275709 B2 20071002

DOCDB simple family (application)
DE 0202199 W 20020617; AT 02748589 T 20020617; AU 2002319087 A 20020617; DE 10131272 A 20010628; DE 50213369 T 20020617;
EP 02748589 A 20020617; JP 2003508634 A 20020617; US 48064503 A 20031229