

Title (en)

TRANSPORT DEVICE FOR WORKPIECES IN PRESSES

Title (de)

TRANSPORTVORRICHTUNG FÜR WERKSTÜCKE IN PRESSEN

Title (fr)

DISPOSITIF DE TRANSPORT CONCU POUR DES PIECES A USINER DANS DES PRESSES

Publication

EP 1708835 B1 20090422 (DE)

Application

EP 05707039 A 20050127

Priority

- EP 2005000800 W 20050127
- DE 102004005046 A 20040130

Abstract (en)

[origin: WO2005072888A1] A transport device is disclosed, in particular, a 3-way transfer for progressive presses (1), in which linear drives (16, 17) are incorporated and operated for horizontal displacement such as to permit a simple exchange of the grab rails on exchange of tools with a compact construction of the linear drives (16, 17). The transport device is characterized in that, in order to carry out the horizontal displacement in the workpiece transport direction, at least two linear drives (16, 17) are provided for each support rail (10).

IPC 8 full level

B21D 43/05 (2006.01)

CPC (source: EP KR US)

B21D 43/00 (2013.01 - KR); **B21D 43/05** (2013.01 - KR); **B21D 43/055** (2013.01 - EP US); **B21D 43/057** (2013.01 - EP US)

Designated contracting state (EPC)

CH DE ES FR IT LI

DOCDB simple family (publication)

WO 2005072888 A1 20050811; CA 2553656 A1 20050811; CA 2553656 C 20110830; CN 1913987 A 20070214; CN 1913987 B 20100526; DE 102004005046 A1 20050901; DE 102004005046 B4 20080124; DE 502005007134 D1 20090604; EP 1708835 A1 20061011; EP 1708835 B1 20090422; ES 2326325 T3 20091007; JP 2007519529 A 20070719; JP 5006050 B2 20120822; KR 101110907 B1 20120313; KR 20060126750 A 20061208; MX PA06008460 A 20070130; US 2006260381 A1 20061123; US 7448489 B2 20081111

DOCDB simple family (application)

EP 2005000800 W 20050127; CA 2553656 A 20050127; CN 200580003285 A 20050127; DE 102004005046 A 20040130; DE 502005007134 T 20050127; EP 05707039 A 20050127; ES 05707039 T 20050127; JP 2006550107 A 20050127; KR 20067015263 A 20050127; MX PA06008460 A 20050127; US 49092606 A 20060721