

Title (en)

Flexible transport device for presses

Title (de)

Flexible Transporteinrichtung für Pressen

Title (fr)

Dispositif de transport flexible pour presses

Publication

EP 1129800 B1 20051130 (DE)

Application

EP 00128239 A 20001227

Priority

DE 10009574 A 20000229

Abstract (en)

[origin: EP1129800A2] Each processing station (8,9) in a press has an independent transporter unit (2) with detachable cross heads (5). The cross head is born spherically in the transporter unit via e.g. a cardan joint. A suction cross head is moveably held on each cross head via guides in carriages. The carriages are located in linear guides and moved in horizontal direction by a drive via a bar and spindle nut system.

IPC 1-7

B21D 43/05; **B21D 43/10**

IPC 8 full level

B21D 43/05 (2006.01)

CPC (source: EP US)

B21D 43/05 (2013.01 - EP US)

Cited by

DE10348643B3; EP2248743A4; DE102007011584B4; DE10352982A1; DE10352982B4; US11826813B2; EP2548672A4; US7484922B2; US8439624B2; US9339861B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1129800 A2 20010905; **EP 1129800 A3 20031008**; **EP 1129800 B1 20051130**; BR 0100645 A 20011009; CA 2331290 A1 20010829; CA 2331290 C 20080819; DE 10009574 A1 20010830; DE 50011750 D1 20060105; ES 2251931 T3 20060516; US 2002029701 A1 20020314; US 6968725 B2 20051129

DOCDB simple family (application)

EP 00128239 A 20001227; BR 0100645 A 20010220; CA 2331290 A 20010117; DE 10009574 A 20000229; DE 50011750 T 20001227; ES 00128239 T 20001227; US 76768901 A 20010124