

Title (en)

HIGH-SPEED SHEET FEEDING WITHOUT GRIP PLIERS

Title (de)

GREIFZANGENLOSER TAFELTRANSPORT MIT HOHER GESCHWINDIGKEIT

Title (fr)

TRANSPORT DE FEUILLES A HAUTE VITESSE SANS PINCES DE PREHENSION

Publication

**EP 1439922 A2 20040728 (DE)**

Application

**EP 02802271 A 20021028**

Priority

- DE 0204031 W 20021028
- DE 10153481 A 20011030

Abstract (en)

[origin: WO03037543A2] The invention concerns a conveying device for sheet steel plates and for moving several sheets (1, 1') inside or through a working zone (W; 50) wherein the sheets are machined. The inventive feeding device comprises first and second sheet feeders (10, 11; 20) which feed the sheets in controlled manner to the working zone (W) so that the sheets are machined with positional accuracy. The first sheet feeder (10, 11) is located on an input side of the tool zone and the second sheet feeder (20) is located on an output side of the tool zone. The two sheet feeders (10, 20; 11; 20) are mutually synchronized in their movements (x, y) when feeding forward the sheet (1), the sheet driven by the synchronous movement being maintained by the two sheet feeders. The invention provides the advantages of increased speed and safety. It is possible to increase the speed without the sheet being deformed or losing its flatness.

IPC 1-7

**B21D 43/11**; **B21D 43/02**

IPC 8 full level

**B21D 43/02** (2006.01); **B21D 43/11** (2006.01)

CPC (source: EP US)

**B21D 43/026** (2013.01 - EP US); **B21D 43/11** (2013.01 - EP US); **Y10T 83/6582** (2015.04 - EP US)

Cited by

CN114082861A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

**WO 03037543 A2 20030508**; **WO 03037543 A3 20030918**; AT E373531 T1 20071015; AU 2002363160 A1 20030512; CN 1582207 A 20050216; CN 1907592 A 20070207; DE 10294963 D2 20040909; DE 50210937 D1 20071031; EA 005483 B1 20050224; EA 200400609 A1 20040826; EP 1439922 A2 20040728; EP 1439922 B1 20070919; ES 2294201 T3 20080401; HU P0401961 A2 20050128; PL 204386 B1 20100129; PL 368406 A1 20050321; US 2005020423 A1 20050127; US 7237421 B2 20070703

DOCDB simple family (application)

**DE 0204031 W 20021028**; AT 02802271 T 20021028; AU 2002363160 A 20021028; CN 02821927 A 20021028; CN 200610079894 A 20021028; DE 10294963 T 20021028; DE 50210937 T 20021028; EA 200400609 A 20021028; EP 02802271 A 20021028; ES 02802271 T 20021028; HU P0401961 A 20021028; PL 36840602 A 20021028; US 49420104 A 20040907