

Title (en)

Transfer press and device for loading or unloading the workpieces

Title (de)

Transferpresse sowie eine Vorrichtung zum Be- bzw. Entladen von Werkstücken

Title (fr)

Presse de transfert et dispositif de chargement ou déchargement des pièces

Publication

**EP 1179376 A3 20030521 (DE)**

Application

**EP 01118583 A 20010802**

Priority

DE 10039062 A 20000810

Abstract (en)

[origin: EP1179376A2] The transfer press has a mechanism to load and unload workpieces with at least one slide unit (1) which moves horizontally. The mechanism has at least one unit with a vertical movement, and a unit to hold the workpieces. The horizontal movement unit has at least one drive (2,3), with at least two transmission belts (4,5) between the drives and the workpiece holders. At least one roller (6-8) sets the tension of the belts.

IPC 1-7

**B21D 43/05**

IPC 8 full level

**B21D 43/05** (2006.01); **B21D 43/10** (2006.01)

CPC (source: EP US)

**B21D 43/05** (2013.01 - EP US); **B21D 43/105** (2013.01 - EP US)

Citation (search report)

- [X] US 5909997 A 19990608 - LILJENGREN JOHN-ERIK [SE], et al
- [X] US 4193731 A 19800318 - BLATT JOHN A [US], et al
- [X] US 5938400 A 19990817 - MASSMANN HANS-JOACHIM [DE], et al
- [A] US 4444540 A 19840424 - BLATT LELAND F [US], et al
- [A] US 3546956 A 19701215 - BLATT LELAND F
- [XA] PATENT ABSTRACTS OF JAPAN vol. 001, no. 065 (M - 023) 24 June 1977 (1977-06-24)

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