

Title (en)

Device for feeding automatically blanks to a press or any other machine.

Title (de)

Einrichtung zum automatischen Zuführen von Blechen in eine Presse bzw. in eine Maschine beliebig anderer Art.

Title (fr)

Appareil d'alimentation automatique en flans de tôle d'une presse ou autre machine quelconque.

Publication

EP 0449681 A1 19911002 (FR)

Application

EP 91400537 A 19910227

Priority

FR 9003275 A 19900314

Abstract (en)

This device is intended to be fixed to the front face (5) of a press (PR) and comprises a carriage (6) which can be put into a reciprocating movement and fitted with a system (7) for taking metal sheets from a stack, which feeds a waiting support (9) in a coordinated manner and synchronously with the insertion of the metal sheets into the press (PR) by the carriage (6) which comprises, at its end, grippers (P) enabling a metal sheet on the waiting support (9) to be gripped while moving in order to insert it into the press (PR). This device may be adjustably fixed to a press called a double-action press. <IMAGE>

IPC 1-7

B21D 43/11; **B21D 43/24**

IPC 8 full level

B21D 43/11 (2006.01); **B21D 43/24** (2006.01)

CPC (source: EP)

B21D 43/11 (2013.01); **B21D 43/24** (2013.01)

Citation (search report)

- [A] FR 2111652 A7 19720609 - UNISOC MACHINE TOOLS LTD
- [A] US 2932428 A 19600412 - MCGRANAHAN ROBERT S
- [A] FR 1326785 A 19630510 - METALLWAREN & MASCHF P SCHWARZ
- [A] US 2389738 A 19451127 - OLNEY NATHANIEL M
- [A] FR 2169417 A1 19730907 - NORDA SPA [IT]
- [A] EP 0331661 A1 19890906 - RAUMA REPOLA OY [FI]
- [A] FR 2555502 A1 19850531 - CITROEN SA [FR]
- [A] PATENT ABSTRACTS OF JAPAN, vol. 9, no. 191 (M-402)[1914], 7 août 1985; & JP-A-60 056 428 (ORII JIDOUKI) 02-04-1985

Cited by

CN101804436A; CN116274485A; US6210968B1; US6649374B1; US7070791B2; US7485313B2

Designated contracting state (EPC)

DE ES GB IT SE

DOCDB simple family (publication)

EP 0449681 A1 19911002; **EP 0449681 B1 19930623**; DE 69100136 D1 19930729; DE 69100136 T2 19940127; ES 2043441 T3 19931216; FR 2659578 A1 19910920; FR 2659578 B1 19950428

DOCDB simple family (application)

EP 91400537 A 19910227; DE 69100136 T 19910227; ES 91400537 T 19910227; FR 9003275 A 19900314