

Title (en)

PERIPHERAL ACCESSORY DEVICE FOR AUTOMATICALLY LOADING AND UNLOADING A PUNCHING AND NIBBLING MACHINE

Publication

**EP 0135095 B1 19871125 (DE)**

Application

**EP 84109246 A 19840803**

Priority

DE 3329902 A 19830818

Abstract (en)

[origin: ES8504508A1] The invention concerns a peripheral auxiliary system for the automatic feeding and unloading of a stamping/nibbling machine. In machines of this kind, the blanks have previously been fed in by automatic devices. Other transport or depositing devices have been provided for the stamped parts and the stamped-out blanks. For these purposes, an industrial robot with a gripping mechanism is used. According to the invention, the gripping mechanism of the robot is also designed to remove the stamped parts, and a stacking means is provided, whose delivery surface can be swiveled and displaced uniformly in one operation.

IPC 1-7

**B21D 43/10**; **B21D 43/18**; **B21D 43/22**

IPC 8 full level

**B21D 43/10** (2006.01); **B21D 43/18** (2006.01); **B21D 43/22** (2006.01); **B21D 45/04** (2006.01); **B23D 27/00** (2006.01)

CPC (source: EP US)

**B21D 43/105** (2013.01 - EP US); **B21D 43/18** (2013.01 - EP US); **B21D 43/22** (2013.01 - EP US)

Cited by

FR2661342A1; US5193967A; DE102012002468A1; DE102012002468B4; WO9108067A1

Designated contracting state (EPC)

AT CH DE FR GB IT LI SE

DOCDB simple family (publication)

**EP 0135095 A1 19850327**; **EP 0135095 B1 19871125**; AT E31038 T1 19871215; DE 3329902 A1 19850228; DE 3467724 D1 19880107; ES 535246 A0 19850501; ES 8504508 A1 19850501; JP S6061130 A 19850408; US 4630987 A 19861223

DOCDB simple family (application)

**EP 84109246 A 19840803**; AT 84109246 T 19840803; DE 3329902 A 19830818; DE 3467724 T 19840803; ES 535246 A 19840817; JP 17097284 A 19840816; US 63882084 A 19840808