

Title (en)

Manipulator for forging machines, in particular multi-punch forging machines.

Title (de)

Manipulator für Schmiedemaschinen, insbesondere Mehr-Stößel-Schmiedemaschinen.

Title (fr)

Manipulateur pour machines de forgeage, notamment machines de forgeage à poinçons multiples.

Publication

**EP 0434891 B1 19931103 (DE)**

Application

**EP 90109301 A 19900517**

Priority

DE 3942942 A 19891223

Abstract (en)

[origin: US5000028A] A workpiece manipulator assembly for a forging press having a press ram comprises a workpiece rotating mechanism including a rotary drive system for rotating a workpiece in peripheral direction. The rotary drive system is operated by a drive motor running at a preselected constant speed to rotate the workpiece about an axis of rotation. An arresting assembly stops the rotary movement of the workpiece before and during a pressure contact phase for the press ram. The rotary drive system is adapted to rotate a driven worm which produces rotary movement to the workpiece rotating means and is mounted for axial displacement. The arresting assembly includes an axial drive unit for predeterminably controlling axial displacement of the driven worm to effect the arresting of said rotary movement.

IPC 1-7

**B21J 13/10**

IPC 8 full level

**B21J 13/10** (2006.01)

CPC (source: EP KR US)

**B21J 13/00** (2013.01 - KR); **B21J 13/10** (2013.01 - EP US)

Cited by

EP3028788A1; DE102005012297B4; CN109047617A; AT501483A1; AT501483B1; EP1600228A1; AT501482A1; AT501482B1; EP2243572A3; EP2243572A2; DE102009052141A1; US8234903B2

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DOCDB simple family (publication)

**US 5000028 A 19910319**; AT E96704 T1 19931115; DE 3942942 C1 19910620; DE 59003350 D1 19931209; EP 0434891 A2 19910703; EP 0434891 A3 19911218; EP 0434891 B1 19931103; JP H03193234 A 19910823; JP H0732946 B2 19950412; KR 910009361 A 19910628; KR 930009401 B1 19931004

DOCDB simple family (application)

**US 54905190 A 19900706**; AT 90109301 T 19900517; DE 3942942 A 19891223; DE 59003350 T 19900517; EP 90109301 A 19900517; JP 14752990 A 19900607; KR 900009220 A 19900621