

Title (en)

Swaging machine

Title (de)

Rundknetmaschine

Title (fr)

Machine à rétreindre rotative

Publication

EP 0919310 B1 20010314 (DE)

Application

EP 97890225 A 19971113

Priority

EP 97890225 A 19971113

Abstract (en)

[origin: EP0919310A1] The machine has an annular forging box (3) rotatable about the workpiece feed axis with forging rams (5) carrying tools (6) and acting through radial apertures (4) as the box rotates. The rams are supported by pivotable guides (13) and the linear motions of the rams is superimposed with oscillatory motions in a plane perpendicular to the feed axis which pivot the tools back at an angular speed corresponding to the box rotation rate but opposite to the angular speed of the box

IPC 1-7

B21J 7/16; **B21J 7/14**

IPC 8 full level

B21J 7/14 (2006.01); **B21J 7/16** (2006.01); **B21J 9/18** (2006.01)

CPC (source: EP US)

B21J 7/145 (2013.01 - EP US); **B21J 7/16** (2013.01 - EP US)

Cited by

DE102016100599B4; DE19955321B4; DE10341716B4; DE102004014705A1; DE19952229B4; DE19955323B4; DE102016100599A1; DE19954210B4; EP2298468A3

Designated contracting state (EPC)

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DOCDB simple family (publication)

US 6070446 A 20000606; AT E199668 T1 20010315; DE 59703151 D1 20010419; EP 0919310 A1 19990602; EP 0919310 B1 20010314; ES 2155985 T3 20010601; JP H11216533 A 19990810

DOCDB simple family (application)

US 18766898 A 19981106; AT 97890225 T 19971113; DE 59703151 T 19971113; EP 97890225 A 19971113; ES 97890225 T 19971113; JP 31913398 A 19981110