

Title (en)
HYDRAULIC FORGING MACHINE

Publication
EP 0236589 B1 19920401 (DE)

Application
EP 86201892 A 19861029

Priority
DE 3607737 A 19860308

Abstract (en)
[origin: US4745793A] A hydraulically driven forging machine with four radially arranged working cylinders has piston pumps disposed as individual pumps about the forging machine with all pump-end pipe connections located on the horizontal center plane of the forging machine, so that all pipe conduits leading to the working cylinders are equal in length and as short as possible in order to equalize and minimize stroke volume losses in the four working cylinders which result from the compressibility of the fluid pressure medium.

IPC 1-7
B21J 7/14

IPC 8 full level
B21J 9/12 (2006.01); **B21J 7/14** (2006.01); **B21J 7/16** (2006.01); **B21J 7/28** (2006.01); **B21J 7/46** (2006.01); **B21J 9/10** (2006.01)

CPC (source: EP US)
B21J 7/14 (2013.01 - EP US); **B21J 7/28** (2013.01 - EP US); **B21J 7/46** (2013.01 - EP US)

Cited by
US5894755A; EP0829319A3; EP0323607A3; US5000026A; EP0432516A1; US5078002A

Designated contracting state (EPC)
AT ES FR GB IT

DOCDB simple family (publication)
EP 0236589 A2 19870916; EP 0236589 A3 19890315; EP 0236589 B1 19920401; AT E74299 T1 19920415; DE 3607737 C1 19871029; ES 2030387 T3 19921101; JP H0342975 B2 19910628; JP S62224439 A 19871002; US 4745793 A 19880524

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