

Title (en)
FORGING DEVICE

Publication
EP 0021166 B1 19830525 (DE)

Application
EP 80103120 A 19800604

Priority
PL 21627579 A 19790609

Abstract (en)
[origin: CA1144404A] The forging device is equipped with two upsettingtool holders which are shaped as angular elements. They are installed between a head and a base, are mounted slidably in a direction transverse to the head movement and are connected with the head by articulated connectors. The arms of the angular elements which are situated parallel to the head movement are equipped with upsetting tools. Between the upsetting tools a gripper of the formed material is installed, which is composed of two jaws. The arms of the angular elements, which are transverse to the head movement, are mounted slidably with regard to the jaw of the gripper in the direction transverse to the head movement. These arms are pressed against the jaw in the direction of the head movement and cause the clamping of the material between the jaws. After the material has been clamped, the jaws remain immobile during the whole metal forming process, The device permits to upset a rod or a tube simultaneously at two places or to manufacture branched forgings, like crosses, T-shapes, Y-shapes and the like.

IPC 1-7
B21J 5/08

IPC 8 full level
B21J 5/02 (2006.01); **B21J 5/08** (2006.01); **B21J 9/06** (2006.01); **B21K 1/76** (2006.01)

CPC (source: EP US)
B21J 9/06 (2013.01 - EP US); **B21J 13/025** (2013.01 - EP US); **B21K 1/76** (2013.01 - EP US); **Y10T 29/17** (2015.01 - EP US)

Cited by
DE102014212732A1; DE102009011173A1; FR2726493A1; DE102014212732B4

Designated contracting state (EPC)
CH DE FR GB IT LI SE

DOCDB simple family (publication)
EP 0021166 A1 19810107; **EP 0021166 B1 19830525**; AU 537204 B2 19840614; AU 5888680 A 19801211; CA 1144404 A 19830412; DE 3063453 D1 19830707; HU 182142 B 19831228; IN 154651 B 19841124; JP S561237 A 19810108; JP S6018265 B2 19850509; PL 121730 B1 19820531; PL 216275 A1 19810130; US 4438644 A 19840327

DOCDB simple family (application)
EP 80103120 A 19800604; AU 5888680 A 19800529; CA 352661 A 19800526; DE 3063453 T 19800604; HU 140380 A 19800604; IN 648CA1980 A 19800531; JP 7827980 A 19800609; PL 21627579 A 19790609; US 15378380 A 19800527