

Title (en)

METHOD AND APPARATUS FOR PERFORMING A MAGNETIC PULSE FORMING PROCESS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR DURCHFÜHRUNG EINES PROZESSES ZUR BILDUNG MAGNETISCHER IMPULSE

Title (fr)

PROCEDE ET APPAREIL D'EXECUTION D'UN PROCESSUS DE FORMAGE PAR IMPULSIONS MAGNETIQUES

Publication

**EP 1830976 A4 20081126 (EN)**

Application

**EP 05855345 A 20051227**

Priority

- US 2005046764 W 20051227
- US 63924704 P 20041227
- US 31224805 A 20051219

Abstract (en)

[origin: WO2006071766A2] A magnetic pulse forming process is performed by an apparatus and a method that causes the plasticity of a workpiece to be preliminarily increased to facilitate deformation to the desired shape. Initially, a mandrel having a surface and an electrically conductive member are provided. The workpiece is oriented between the surface of the mandrel and the electrically conductive member, and a first electrical current is caused to flow through the workpiece and the electrically conductive member so as to increase the plasticity of the workpiece. Then, a second electrical current is caused to flow through the electrically conductive member and the workpiece so as to cause the workpiece to be deformed into engagement with the surface of the mandrel.

IPC 8 full level

**B21D 26/14** (2006.01)

CPC (source: EP US)

**B21D 26/14** (2013.01 - EP US)

Citation (search report)

- [A] FR 2374106 A1 19780713 - ARDEF ASBL [BE]
- See references of WO 2006071766A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2006071766 A2 20060706; WO 2006071766 A3 20061026;** BR PI0519358 A2 20090120; EP 1830976 A2 20070912; EP 1830976 A4 20081126; JP 2008525198 A 20080717; US 2006156776 A1 20060720

DOCDB simple family (application)

**US 2005046764 W 20051227;** BR PI0519358 A 20051227; EP 05855345 A 20051227; JP 2007548515 A 20051227; US 31224805 A 20051219