

Title (en)
METHOD AND MOULD ARRANGEMENT FOR EXPLOSION FORMING

Title (de)
VERFAHREN UND WERKZEUGANORDNUNG ZUM EXPLOSIONSUMFORMEN

Title (fr)
PROCÉDÉ ET AGENCEMENT D'OUTILS POUR FORMAGE PAR EXPLOSION

Publication
EP 2117744 B1 20180926 (DE)

Application
EP 07856709 A 20071213

Priority
• EP 2007010966 W 20071213
• DE 102007007330 A 20070214

Abstract (en)
[origin: CA2680322A1] The invention is intended to improve a mould arrangement (1) and a method for the explosion forming of a workpiece (12) by means of gas explosion, in which the workpiece is arranged in a receiving space (15) of a forming mould (2), the receiving space being filled at least partially with liquid (26) and the explosion being triggered by igniting an explosive gas mixture (23), to the extent that the mould arrangement and the method are simplified and suitable for mass production. This object is achieved by a mould arrangement and a method for the explosion forming of a workpiece by means of gas explosion in which the workpiece is arranged in a receiving space of a forming mould (2), wherein the receiving space is at least partially filled with liquid and the explosion is triggered by igniting an explosive gas mixture in which the explosive gas mixture is at least partially provided over the surface of the liquid (22) before the ignition.

IPC 8 full level
B21D 26/08 (2006.01)

CPC (source: EP KR US)
B21D 26/08 (2013.01 - EP KR US); **Y10S 72/706** (2013.01 - EP US)

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 MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102007007330 A1 20080821; AU 2007346789 A1 20080821; AU 2007346789 A2 20100128; CA 2680322 A1 20080821; CN 101622085 A 20100106; CN 101622085 B 20151014; EA 016721 B1 20120730; EA 200901069 A1 20100630; EP 2117744 A1 20091118; EP 2117744 B1 20180926; JP 2010517791 A 20100527; JP 5583412 B2 20140903; KR 20090122442 A 20091130; MX 2009008694 A 20091102; US 2010206034 A1 20100819; US 8875553 B2 20141104; WO 2008098608 A1 20080821

DOCDB simple family (application)
DE 102007007330 A 20070214; AU 2007346789 A 20071213; CA 2680322 A 20071213; CN 200780051389 A 20071213; EA 200901069 A 20071213; EP 07856709 A 20071213; EP 2007010966 W 20071213; JP 2009549782 A 20071213; KR 20097019011 A 20071213; MX 2009008694 A 20071213; US 44772707 A 20071213