

Title (en)

METHOD FOR LOADING INTERNAL HIGH PRESSURE FORMING PRESSES AND DEVICE THEREFOR

Title (de)

VERFAHREN ZUM BESCHICKEN VON IHU-PRESSEN UND EINRICHTUNG ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)

PROCEDE DE CHARGEMENT DE PRESSES DE FORMAGE PAR HAUTE PRESSION INTERNE ET DISPOSITIF PERMETTANT LA MISE EN OEUVRE DE CE PROCEDE

Publication

**EP 1434661 B1 20080402 (DE)**

Application

**EP 02776776 A 20021004**

Priority

- DE 0203746 W 20021004
- DE 10150092 A 20011011

Abstract (en)

[origin: DE10150092C1] Process for charging inner high pressure deforming presses with several parts comprises inserting all parts of the workpiece into the lower part (1) of an assembly device; controlling the position of the parts in the lower part; placing an upper part (2) on the lower part; holding in position; moving the charged upper part into the press between a tool; positioning the upper part in an exact position on the lower tool using positioning elements; transporting the upper part from the press and removing from the lower tool; carrying out an inner high pressure deforming process; and removing the finished workpiece.

IPC 8 full level

**B21D 53/84** (2006.01); **B21D 26/033** (2011.01); **F01L 1/047** (2006.01); **F16H 53/02** (2006.01)

CPC (source: EP US)

**B21D 26/033** (2013.01 - EP US); **B21D 43/18** (2013.01 - EP US); **B21D 53/845** (2013.01 - EP US); **F01L 1/047** (2013.01 - EP US); **Y10T 29/17** (2015.01 - EP US); **Y10T 29/49293** (2015.01 - EP US); **Y10T 29/49805** (2015.01 - EP US); **Y10T 29/49901** (2015.01 - EP US); **Y10T 29/49902** (2015.01 - EP US); **Y10T 29/53** (2015.01 - EP US)

Cited by

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DOCDB simple family (publication)

**DE 10150092 C1 20030403**; AT E390969 T1 20080415; CA 2474396 A1 20030424; CA 2474396 C 20101221; DE 10294674 D2 20040415; DE 50212028 D1 20080515; EP 1434661 A1 20040707; EP 1434661 B1 20080402; US 2005015952 A1 20050127; US 2008178462 A1 20080731; US 7331095 B2 20080219; US 7574889 B2 20090818; WO 03033189 A1 20030424

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