

Title (en)
High pressure-resistant metal bellow and method for manufacturing the same

Title (de)
Hochdruckfester Metallbalg und Verfahren zum Herstellen eines solchen

Title (fr)
Poutre métallique résistant aux hautes pressions et son procédé de fabrication

Publication
EP 1985388 B1 20100324 (DE)

Application
EP 08014063 A 20080806

Priority
EP 08014063 A 20080806

Abstract (en)
[origin: EP1985388A1] The method involves shaping a pipe from a metallic material into a high pressure-resistant metal bellow (1) by an internal pressure shaping process. A material with two meta-stable material conditions is utilized in the form of the metallic material. The two conditions are ductile material condition and high-strength material condition with increased yield strength. The shaping of the pipe into the metal bellow is performed in the ductile material condition, and the material of the metal bellow is transferred into a high-strength material condition after the shaping process.

IPC 8 full level
B21D 15/06 (2006.01); **B21D 15/10** (2006.01); **B21D 26/02** (2006.01)

CPC (source: EP)
B21D 15/06 (2013.01); **B21D 15/10** (2013.01)

Cited by
DE102013111737A1; DE102013006009B3; DE102013111737B4; US9797530B2; US11879569B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1985388 A1 20081029; EP 1985388 B1 20100324; AT E461764 T1 20100415; DE 502008000464 D1 20100506

DOCDB simple family (application)
EP 08014063 A 20080806; AT 08014063 T 20080806; DE 502008000464 T 20080806