

Title (en)

Method and apparatus for making a closed hollow section

Title (de)

Verfahren zur Herstellung eines umfänglich geschlossenen Hohlprofiles und eine Vorrichtung zur Durchführung desselben

Title (fr)

Pocédé et dispositif de fabrication d' un profilé creux fermé

Publication

EP 1216769 B1 20051012 (DE)

Application

EP 01129173 A 20011208

Priority

DE 10065033 A 20001223

Abstract (en)

[origin: EP1216769A2] To shape a hollow profile, with a closed peripheral mantle, the hollow blank (10) within the mold is filled with a fluid at a high pressure to be expanded into the required shape. As the blank is expanded, it is supported externally by a membrane (12) under a controlled pressure, which is gradually reduced as the blank increases its dimensions within the mold structure. The blank is raised within the mold by two dies (6,7), and is supported by the membrane over its whole length.

IPC 1-7

B21D 26/02

IPC 8 full level

B21D 26/02 (2011.01); **B21D 26/021** (2011.01); **B21D 26/027** (2011.01); **B21D 26/031** (2011.01)

CPC (source: EP US)

B21D 26/02 (2013.01 - EP US); **B21D 26/021** (2013.01 - EP US); **B21D 26/027** (2013.01 - EP US); **B21D 26/031** (2013.01 - EP US); **Y10T 29/49805** (2015.01 - EP US)

Cited by

US7509827B2; WO03095122A1

Designated contracting state (EPC)

DE ES FR GB

DOCDB simple family (publication)

EP 1216769 A2 20020626; **EP 1216769 A3 20031119**; **EP 1216769 B1 20051012**; CA 2366209 A1 20020623; CA 2366209 C 20061024; DE 10065033 C1 20020711; DE 50107673 D1 20051117; US 2002088263 A1 20020711; US 6634198 B2 20031021

DOCDB simple family (application)

EP 01129173 A 20011208; CA 2366209 A 20011221; DE 10065033 A 20001223; DE 50107673 T 20011208; US 2609001 A 20011221