

Publication

**EP 0844034 A3 19980603**

Application

**EP 97118614 A 19971027**

Priority

DE 19647962 A 19961120

Abstract (en)

[origin: EP0844034A2] The method involves clamping the separated hole core in the hole. The die (7,13) is used to press the hole core which is secured against loss into the prior-produced hole. It involves releasing the hole core after removal of the processed hollow profile (5) from the inner high pressure shaping tool (1), by which the hole is finally producible. The die forming the feed-back is used at the same time for producing the hole. A thruster (13) is integrated in the die, into which it can be pushed.

IPC 1-7

**B21D 28/28**; **B21D 26/02**

IPC 8 full level

**B21D 26/02** (2011.01); **B21D 28/28** (2006.01)

CPC (source: EP US)

**B21D 28/28** (2013.01 - EP US); **Y10T 83/0457** (2015.04 - EP US); **Y10T 83/0596** (2015.04 - EP US); **Y10T 83/395** (2015.04 - EP US)

Citation (search report)

[DA] US 4989482 A 19910205 - MASON MURRAY R [CA]

Cited by

US7552535B2; WO2004043623A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**DE 19647962 C1 19980416**; EP 0844034 A2 19980527; EP 0844034 A3 19980603; US 5996455 A 19991207

DOCDB simple family (application)

**DE 19647962 A 19961120**; EP 97118614 A 19971027; US 97475897 A 19971120