

Title (en)

METHOD AND DEVICE FOR THE CORELESS FORMING OF HOLLOW PROFILES

Title (de)

VERFAHREN UND VORRICHTUNG ZUM KERNLOSEN EINFORMEN VON HOHLPROFILEN

Title (fr)

PROCEDE ET DISPOSITIF DE MOULAGE SANS NOYAU DE PROFILES CREUX

Publication

EP 1954420 B1 20090923 (DE)

Application

EP 06819548 A 20061116

Priority

- EP 2006068571 W 20061116
- DE 102005057424 A 20051130

Abstract (en)

[origin: DE102005057424A1] The coreless process produces a tube (1) from a sheet (5) by placing it in a die made in two halves (3, 4) and closing them up to produce a tube with a slit. The deformation takes place in the half-dies, and the edges (6, 7) of the sheet are prevented from sliding forward as the die is closed up to form the slit tube.

IPC 8 full level

B21C 37/08 (2006.01); **B21D 5/01** (2006.01)

CPC (source: EP KR US)

B21C 37/08 (2013.01 - KR); **B21C 37/0815** (2013.01 - EP US); **B21D 5/01** (2013.01 - KR); **B21D 5/015** (2013.01 - EP US); **Y10T 29/49805** (2015.01 - EP US)

Cited by

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DE IT SE

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DE 102005057424 A1 20070531; **DE 102005057424 B4 20090305**; DE 502006004941 D1 20091105; EP 1954420 A1 20080813; EP 1954420 B1 20090923; JP 2009517222 A 20090430; KR 101260484 B1 20130506; KR 20080073772 A 20080811; US 2009044394 A1 20090219; US 8959973 B2 20150224; WO 2007062991 A1 20070607

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DE 102005057424 A 20051130; DE 502006004941 T 20061116; EP 06819548 A 20061116; EP 2006068571 W 20061116; JP 2008542708 A 20061116; KR 20087015849 A 20080627; US 9556606 A 20061116