

Title (en)
Method for designing a die

Title (de)
Verfahren zum Entwerfen einer Matrize

Title (fr)
Procédé pour la conception d'une matrice

Publication
EP 1884297 A1 20080206 (EN)

Application
EP 07011703 A 20070614

Priority
JP 2006211962 A 20060803

Abstract (en)
A thin, wide hollow panel in good shape (1) is provided by extrusion through a die (24) designed for each of the entry ports (30a) and the merging space (31a) to have characteristic design values such that the hollow panel (1) has a relative error ($\# \mu$) within $\pm 10\%$ between the average value of strain (μ) in all regions (1b) in the welded parts (1a) and the individual values of strain (μ) in each region (1b) in the welded parts (1b).

IPC 8 full level
B21C 25/00 (2006.01)

CPC (source: EP)
B21C 23/142 (2013.01); **B21C 25/00** (2013.01); **B21C 25/10** (2013.01)

Citation (search report)

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- [X] US 3527079 A 19700908 - BRAEUNINGER KARL F
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- [A] JP H01284423 A 19891115 - SHOWA ALUMINUM CORP
- [A] US 2004244457 A1 20041209 - HIRAMOTO KIMIHISA [JP], et al

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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1884297 A1 20080206; **EP 1884297 B1 20130529**; HK 1117091 A1 20090109; JP 2008036662 A 20080221; JP 4824499 B2 20111130

DOCDB simple family (application)
EP 07011703 A 20070614; HK 08108020 A 20080721; JP 2006211962 A 20060803