

Title (en)  
DIE FORMING METALLIC SHEET MATERIALS

Publication  
**EP 0595813 A4 19940907 (EN)**

Application  
**EP 92905251 A 19911030**

Priority  
• US 9107966 W 19911030  
• US 73476491 A 19910723

Abstract (en)  
[origin: WO9301902A1] A process and apparatus for forming a sheet material by drawing it into a die cavity (12) utilizing the flow of a viscous thermoplastic polymer medium extruded against the sheet (22) and/or extruded out of said die cavity (12) through a plurality of passageways (14a, 14b, and 14c) and programmably varying said extrusion of said medium to cause the sheet material to be controllably stretched into the cavity and shaped.

IPC 1-7  
**B21D 26/02**

IPC 8 full level  
**B21D 26/02** (2011.01); **B21D 26/021** (2011.01); **B21D 26/031** (2011.01)

CPC (source: EP)  
**B21D 26/02** (2013.01); **B21D 26/021** (2013.01); **B21D 26/031** (2013.01)

Citation (search report)  
• No further relevant documents disclosed  
• See references of WO 9301902A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)  
**WO 9301902 A1 19930204**; AT E142545 T1 19960915; DE 69122130 D1 19961017; DE 69122130 T2 19970220; EP 0595813 A1 19940511; EP 0595813 A4 19940907; EP 0595813 B1 19960911; ES 2094345 T3 19970116; JP 3187834 B2 20010716; JP H06510236 A 19941117; RU 2096117 C1 19971120

DOCDB simple family (application)  
**US 9107966 W 19911030**; AT 92905251 T 19911030; DE 69122130 T 19911030; EP 92905251 A 19911030; ES 92905251 T 19911030; JP 50473192 A 19911030; RU 94018500 A 19911030