

Title (en)  
PROFILE COMPOSITE COMPONENT AND METHOD FOR THE PRODUCTION THEREOF

Title (de)  
PROFILVERBUNDBAUTEIL UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)  
COMPOSANT COMPOSITE PROFILE ET PROCEDE DE FABRICATION

Publication  
**EP 1282499 A1 20030212 (DE)**

Application  
**EP 01980211 A 20010425**

Priority  
• DE 10022360 A 20000508  
• EP 0104632 W 20010425

Abstract (en)  
[origin: DE10022360A1] Composite component comprises two or more profiles assembled to form a structure. Reinforcing elements (3,3') are located at each connecting joint (10) where one profile (1) adjoins or inserts into another profile (2) and forms a positive connection with them. Thermoplastic resin is then injected or shrunk onto the connecting point to join the profiles together. Independent claims are made for: (a) a use of the composite part as a structural member in motor vehicles, especially doors, impact bumpers, front and rear body parts, door support frames, instrument panels, tailgate supports, roof frames and decorative parts; machines; electronic products; household goods and construction; and (b) a process for production of the composite component in which two or more profiles (1,2) are inserted into or are enclosed by reinforcing members (3,3') to form a connecting joint (10) and either a thermoplastic plastic is injected to join the profiles or pieces of shrinkable thermoplastic (4) are placed around the joint and shrunk into position.

IPC 1-7  
**B29C 45/14**; **B29C 65/70**; **F16B 7/04**

IPC 8 full level  
**B29C 45/14** (2006.01); **B29C 65/66** (2006.01); **B29C 65/68** (2006.01); **B29C 65/70** (2006.01); **B60J 5/00** (2006.01); **B62D 29/00** (2006.01); **B62D 29/04** (2006.01); **F16B 7/00** (2006.01); **F16S 3/02** (2006.01); **B29C 45/33** (2006.01); **B29L 31/30** (2006.01)

CPC (source: EP KR US)  
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