

Title (en)  
Element made of foamed metal

Title (de)  
Bauteil aus metallischem Schaumwerkstoff

Title (fr)  
Élément en mousse métallique

Publication  
**EP 0798062 A3 19981007 (DE)**

Application  
**EP 97105225 A 19970327**

Priority  
DE 19612781 A 19960329

Abstract (en)  
[origin: EP0798062A2] A metal foam component (1), in the form of a car body element includes a foamed porous layer made up of a metal powder and a foaming agent. The component has at least one contour (1') which is raised out of its plane (1"). The angles in the transition zones of the three-dimensionally formed component lie within the range between 100 and 180 degrees. Also claimed are a method and an apparatus for producing such a component.

IPC 1-7  
**B22F 7/00**; **B22F 3/11**; **B32B 1/00**

IPC 8 full level  
**B60R 13/02** (2006.01); **B22F 3/11** (2006.01); **B22F 5/00** (2006.01); **B22F 7/00** (2006.01); **B32B 1/00** (2006.01); **B32B 5/18** (2006.01)

CPC (source: EP US)  
**B22F 3/1103** (2013.01 - EP US); **B22F 3/1125** (2013.01 - EP US); **B22F 7/006** (2013.01 - EP US); **B22F 2998/00** (2013.01 - EP US); **Y10T 29/49904** (2015.01 - EP US); **Y10T 428/12382** (2015.01 - EP US); **Y10T 428/1241** (2015.01 - EP US); **Y10T 428/12479** (2015.01 - EP US)

C-Set (source: EP US)  
1. **B22F 2998/00 + B22F 7/006**  
2. **B22F 2998/00 + B22F 3/1125**

Citation (search report)  
• [X] EP 0189674 A2 19860806 - IMI TITANIUM LTD [GB]  
• [A] DE 4424157 A1 19950202 - FRAUNHOFER GES FORSCHUNG [DE]

Cited by  
DE19905124C1; EP0915007A3; DE19941199A1; US7736743B2; US6286896B1; US6573309B1; US8288447B2; WO03054069A1; US7473717B2

Designated contracting state (EPC)  
DE FR GB IT SE

DOCDB simple family (publication)  
**DE 19612781 C1 19970821**; DE 59705836 D1 20020131; EP 0798062 A2 19971001; EP 0798062 A3 19981007; EP 0798062 B1 20011219; JP H1058575 A 19980303; US 2001023027 A1 20010920; US 6090232 A 20000718; US 6094798 A 20000801

DOCDB simple family (application)  
**DE 19612781 A 19960329**; DE 59705836 T 19970327; EP 97105225 A 19970327; JP 7486797 A 19970327; US 37480999 A 19990816; US 44157999 A 19991117; US 82878997 A 19970327