

Title (en)

FOAM COMPONENT FOR SOUNDPROOFING HOLLOW SPACES

Title (de)

SCHAUMSTOFFELEMENT ZUR SCHALLDÄMMUNG VON HOHLRÄUMEN

Title (fr)

ELEMENT EN MATERIAU ALVEOLAIRE POUR INSONORISER DES CAVITES

Publication

**EP 0906612 A1 19990407 (DE)**

Application

**EP 97927125 A 19970604**

Priority

- DE 19624314 A 19960618
- EP 9702886 W 19970604

Abstract (en)

[origin: US5993932A] A foam material element for sound-damping cavities, particularly for light metal extruded profiles used in rail car construction. The foam material element has a foam material sandwich with at least two layers, namely a resilient layer and at least one heavy layer disposed on the resilient layer. The resilient layer is formed of soft foam polyurethane and the heavy layer is formed of a flocculated foam polyurethane compound. Prior to being inserted in a cavity to be sound-proofed, the foam material element is compressed and weld-sealed in an air-tight film. The element is inserted through an opening of the cavity in its compressed condition. After insertion and placement of the foam material element, the film is opened and, as a result of its exposure to air, the foam material element expands to such a degree that at least one heavy layer, biased by the resilient layer, comes into contact with the walls substantially over a broad surface area.

IPC 1-7

**G10K 11/16**

IPC 8 full level

**G10K 11/16** (2006.01); **B61D 17/18** (2006.01); **E04B 1/82** (2006.01); **G10K 11/162** (2006.01)

CPC (source: EP KR US)

**G10K 11/16** (2013.01 - KR); **G10K 11/162** (2013.01 - EP US); **Y10T 428/231** (2015.01 - EP US); **Y10T 428/233** (2015.01 - EP US); **Y10T 428/24992** (2015.01 - EP US); **Y10T 428/249986** (2015.04 - EP US)

Citation (search report)

See references of WO 9749082A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)

**US 5993932 A 19991130**; AT E184125 T1 19990915; AU 3172497 A 19980107; AU 711216 B2 19991007; CA 2257600 A1 19971224; CA 2257600 C 20020305; CZ 289645 B6 20020313; CZ 419998 A3 19990616; DE 19624314 C1 19980108; DE 59700401 D1 19991007; EP 0906612 A1 19990407; EP 0906612 B1 19990901; ES 2138867 T3 20000116; GR 3032000 T3 20000331; ID 17171 A 19971204; JP 2000512774 A 20000926; KR 100393754 B1 20031201; KR 20000016236 A 20000325; PL 330716 A1 19990524; RU 2155689 C1 20000910; WO 9749082 A1 19971224

DOCDB simple family (application)

**US 21630898 A 19981218**; AT 97927125 T 19970604; AU 3172497 A 19970604; CA 2257600 A 19970604; CZ 419998 A 19970604; DE 19624314 A 19960618; DE 59700401 T 19970604; EP 9702886 W 19970604; EP 97927125 A 19970604; ES 97927125 T 19970604; GR 990403093 T 19991130; ID 972084 A 19970618; JP 50218298 A 19970604; KR 19980709807 A 19981202; PL 33071697 A 19970604; RU 99100713 A 19970604