

Title (en)

Thermally and acoustically insulating composite element, manufacturing method thereof and its use

Title (de)

Thermisch und akustisch isolierende Verbundbaukörper sowie Verfahren zu dessen Herstellung und Verwendung desselben

Title (fr)

Élément composite pour isoler la température ou le son, son procédé de fabrication et l'utilisation

Publication

EP 0588182 B1 19970507 (DE)

Application

EP 93114133 A 19930903

Priority

DE 9212607 U 19920918

Abstract (en)

[origin: EP0588182A2] In the case of a sound-damping and/or sound-insulating and heat-insulating element of lightweight construction, in which the cell walls (3a) of foamed pores or cells (3), forming a foam body (8), consist substantially of aluminium or an aluminium alloy, the foam body is formed by a workpiece (7) which is deformed by heating and has a compacted mixture of powdered aluminium (9) or a powdered aluminium alloy and powdered blowing agent (10) and, if need be, powdered aluminium oxides (11). Since the material is, to the greatest extent, a monomaterial, simple metal recycling is possible. <IMAGE>

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G10K 11/16

IPC 8 full level

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CPC (source: EP)

B22F 3/1125 (2013.01); **B22F 7/006** (2013.01); **G10K 11/162** (2013.01); **B22F 2003/1052** (2013.01)

Cited by

US6820923B1; EP1000690A3; EP0602535A3; DE102006025933A1; CN111824061A; AT406649B; US9987785B2; WO2006111349A1; WO0078500A1; US7566425B2; US7566426B2; US7180027B2; US7721846B2; US7043815B2; US7467452B2; WO03069595A1; WO0215168A1

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