

Title (en)

Vehicle frame components exhibiting enhanced energy absorption, an alloy and a method for their manufacture

Title (de)

Fahrzeugrahmenbauteile mit verbesserter Energieabsorptionsefähigkeit, Verfahren zu ihrer Herstellung und eine Legierung

Title (fr)

Pièces pour la châssis d'un véhicule ayant un absorption d'énergie amélioré, procédé pour leur fabrication et un alliage

Publication

EP 0805219 B1 20040728 (EN)

Application

EP 96107023 A 19960503

Priority

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Abstract (en)

[origin: EP0805219A1] An improved elongate aluminum alloy product, and a method of producing such a product, ideally suited for use as a component in a vehicle frame or subassembly, i.e., body-in-white. The alloy comprises essentially 0.45 to 0.7% magnesium, 0.35 to 0.6% silicon, 0.1 to 0.35% vanadium, and 0.1 - 0.4% iron, preferably 0.15 to 0.3%, the balance substantially aluminum and incidental elements and impurities.
<IMAGE>

IPC 1-7

C22C 21/08; **C22C 21/02**; **C22F 1/05**; **C22F 1/043**

IPC 8 full level

C22C 21/02 (2006.01); **C22C 21/08** (2006.01); **C22F 1/043** (2006.01); **C22F 1/05** (2006.01)

CPC (source: EP)

C22C 21/02 (2013.01); **C22C 21/08** (2013.01); **C22F 1/043** (2013.01); **C22F 1/05** (2013.01)

Cited by

EP1380661A1; EP1433866A3; CH693673A5; CN108893661A; EP0997547A1; EP3831969A1; WO2004090369A1; WO0052216A1; EP1785499A2; DE102008008326A1; EP2088216A1

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