

Title (en)

Product for welded construction, made from AlMgMn alloy with improved mechanical properties

Title (de)

Erzeugnis für geschweisste Bauteile aus AlMgMn Legierung mit verbesserte mechanische Eigenschaften

Title (fr)

Produit pour construction soudée en alliage AlMgMn à résistance mécanique améliorée

Publication

EP 0909828 A3 19990616 (FR)

Application

EP 98123582 A 19960221

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- FR 9502387 A 19950224
- FR 9512065 A 19951009

Abstract (en)

[origin: WO9626299A1] Laminated or extruded products for obtaining welded AlMgMn-type aluminium alloy structures are described, said products having the following contents in weight percent: 3.0 < Mg < 5.0; 0.75 < Mn < 1.0; Fe < 0.25; Si < 0.25; Zn < 0.40; optionally, one or more components selected from Cr, Cu, Ti, Zr, such that: Cr < 0.25; Cu < 0.20; Ti < 0.20; Zr < 0.20; other components < 0.05 each and < 0.15 in all, wherein Mn + 2Zn > 0.75. The welded products have improved mechanical and fatigue resistance, while retaining their toughness and corrosion resistance, and are particularly suitable for applications in shipbuilding, utility vehicles and bicycle frames made of welded tubes.

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C22C 21/06

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [AD] DE 2443332 A1 19760325 - SIEMENS AG
- [A] EP 0507411 A1 19921007 - HOOGOVENS ALUMINIUM NV [BE]
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- [A] US 4043840 A 19770823 - SPERRY PHILIP R, et al

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FR2828498A1; GR20020100348A; US7727346B2; WO03014405A1

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WO 9626299 A1 19960829; AR 001000 A1 19970827; AU 4930596 A 19960911; AU 690433 B2 19980423; AU 690433 C 20020606; CA 2211433 A1 19960829; CA 2211433 C 20090428; CN 1078622 C 20020130; CN 1175983 A 19980311; DE 69613812 D1 20010816; DE 69613812 T2 20020404; DE 804626 T1 19980129; DK 0804626 T3 20011112; EP 0804626 A1 19971105; EP 0804626 B1 20010711; EP 0909828 A2 19990421; EP 0909828 A3 19990616; ES 2161347 T3 20011201; FI 121471 B 20101130; FI 963290 A0 19960823; FI 963290 A 19960825; FR 2731019 A1 19960830; FR 2731019 B1 19970822; HK 1002201 A1 19980807; JP H11500783 A 19990119; NO 973681 D0 19970811; NO 973681 L 19970811; NZ 302706 A 19990429; PL 321887 A1 19971222; RU 2156319 C2 20000920; TR 199700843 T1 19980221; UA 49823 C2 20021015; US 2001050118 A1 20011213; US 6444059 B2 20020903; UY 24172 A1 19960415

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