

Title (en)

EXTRUDING AND FORGING AN ALUMINUM SILICON ALLOY

Title (de)

EXTRUDIEREN UND SCHMIEDEN VON ALUMINIUM-SILIZIUM-LEGIERUNGEN

Title (fr)

EXTRUSION ET FORGEAGE D'UN ALLIAGE ALUMINIUM-SILICIUM

Publication

**EP 0937162 A4 20001115 (EN)**

Application

**EP 98934292 A 19980710**

Priority

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- US 5227597 P 19970711
- US 6295697 P 19971010

Abstract (en)

[origin: WO9902749A1] The present invention comprises a method for manufacturing a solid extruded configuration constructed of an Al-Si alloy. Initially, a billet comprising aluminum and silicon is prepared for extrusion. The Al-Si billet is then heated and inserted into an extruding press. Finally, the Al-Si billet is extruded through an extruding die, having a preconfigured die slot configuration resulting in an extruded Al-Si product. The Al-Si product may then be treated for desired tempering or age hardening to produce a final extruded product with improved mechanical and machinability properties as compared to non-extruded Al-Si products. The extruded Al-Si product may further be cold/warm impact extruded or cold/warm/hot forged to achieve a final desired configuration.

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**C22F 1/043**

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**C22F 1/043** (2006.01)

CPC (source: EP)

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Citation (search report)

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- [PX] EP 0790325 A1 19970820 - HOOGO VENS ALUMINIUM NV [BE]
- [X] PATENT ABSTRACTS OF JAPAN vol. 015, no. 337 (C - 0862) 27 August 1991 (1991-08-27)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 07 31 August 1995 (1995-08-31)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 05 31 May 1996 (1996-05-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 013, no. 247 (M - 835) 8 June 1989 (1989-06-08)
- See references of WO 9902749A1

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