

Title (en)  
AL-SI-FE CASTING ALLOYS

Title (de)  
AL-SI-FE-GUSSLEGIERUNGEN

Title (fr)  
ALLIAGES DE FONDERIE AL-SI-FE

Publication  
**EP 4158077 A4 20230920 (EN)**

Application  
**EP 21818989 A 20210527**

Priority  
• US 202063032973 P 20200601  
• US 2021034577 W 20210527

Abstract (en)  
[origin: WO2021247373A1] New aluminum casting (foundry) alloys are disclosed. The new aluminum casting alloys may include from 6.0 to 11.5 wt. % Si, from 0.30 to 0.80 wt. % Fe, optionally from 0.07 to 0.20 wt. % of X, wherein X is selected from the group consisting of Mg, Mo, Zr, and combinations thereof, and optionally 100-500 ppm Sr, the balance being aluminum and unavoidable impurities. The new aluminum casting alloys may be high-pressure die cast into complex shapes. The new aluminum casting alloys may be useful, for instance, in heat sink / antenna applications.

IPC 8 full level  
**C22C 21/02** (2006.01); **B22D 21/04** (2006.01); **C22F 1/043** (2006.01)

CPC (source: EP KR US)  
**B22D 21/04** (2013.01 - EP KR); **C22C 21/02** (2013.01 - EP KR US); **C22F 1/043** (2013.01 - EP KR)

Citation (search report)  
• [X] US 8480822 B2 20130709 - KOHLMANN PETER [DE]  
• [IA] EP 1736561 A1 20061227 - NIPPON LIGHT METAL CO [JP]  
• [X] CN 104532076 A 20150422 - WUXI HONGSHENG ALUMINIUM IND  
• [XAI] CN 109706355 A 20190503 - SUZHOU CHUNXING PREC MECH CO  
• See also references of WO 2021247373A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
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US 2023099382 A1 20230330

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US 202218070783 A 20221129