

Title (en)

OXIDATION RESISTANT AL-MG HIGH STRENGTH DIE CASTING FOUNDRY ALLOYS

Title (de)

OXIDATIONSBESTÄNDIGE AL-MG HOCHFESTE DRUCKGUSSLEGIERUNGEN

Title (fr)

ALLIAGES DE FONDERIE DE COULÉE SOUS PRESSION, À HAUTE RÉSISTANCE, RÉSISTANT À L'OXYDATION, À BASE D'AL-MG

Publication

EP 4323557 A1 20240221 (EN)

Application

EP 22787182 A 20220401

Priority

- US 202163174796 P 20210414
- CA 2022050497 W 20220401

Abstract (en)

[origin: WO2022217338A1] The present disclosure concerns a foundry alloy suitable for casting operations which lack beryllium. The foundry alloy comprises, in weight percent, Mg (between about 1.0 and about 17.0), Fe (between about 0.5 and about 1.8), one of Ca (between about 0.003 and about 6.0) or Sr (between about 0.003 and about 2.5), optionally a grain refiner and the balance being aluminum and unavoidable impurities. The foundry alloy can be used in a process for making a cast aluminum product, for reducing Mg loss and/or dross generation during the casting operation.

IPC 8 full level

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CPC (source: EP KR US)

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Designated extension state (EPC)

BA ME

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KH MA MD TN

DOCDB simple family (publication)

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