

Title (en)

ALLOY FOR USE IN A SACRIFICIAL ANODE AND A SACTIFICIAL ANODE

Title (de)

LEGIERUNG ZUR VERWENDUNG IN EINER OPFERANODE UND OPFERANODE

Title (fr)

ALLIAGE DESTINÉ À ÊTRE UTILISÉ DANS UNE ANODE SACRIFICIELLE ET ANODE SACRIFICIELLE

Publication

EP 3835441 A1 20210616 (EN)

Application

EP 19215052 A 20191210

Priority

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Abstract (en)

The present invention relates to an aluminium-based alloy for use in a sacrificial anode and a sacrificial anode produced from the aluminium-based alloy. The aluminium-based alloy comprises: maximum 0.5% by weight of zinc, maximum 0.04% by weight of indium, maximum 0.1% by weight of gallium, maximum 0.08% by weight of iron, maximum 0.003% by weight of copper, elements in form of impurities in an amount of maximum 0.02% by weight of each element, and balance aluminium. The alloy has a high electrochemical efficiency and a low potential and provides good properties in respect of cathodic protection.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [X] US 2013084208 A1 20130404 - MISRA ABHIJEET [US], et al
- [A] US 4885045 A 19891205 - MAY ROBIN F [AU]
- [A] ANSHUMAN SHARMA ET AL: "and thermodynamic modelling of alloying effects on activity of sacrificial aluminium anodes", CORROSION SCIENCE, OXFORD, GB, vol. 53, no. 5, 20 January 2011 (2011-01-20), pages 1724 - 1731, XP028156793, ISSN: 0010-938X, [retrieved on 20110128], DOI: 10.1016/J.CORSCI.2011.01.046

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