

Title (en)
CADMIUM-FREE ZINC-BASED ALLOY, ITS USE AS A SACRIFICIAL ANODE, A SACRIFICIAL ANODE, AND A METHOD FOR CATHODIC PROTECTION OF CORROSION-THREATENED CONSTRUCTIONS IN AGGRESSIVE ENVIRONMENT

Title (de)
CADMIUMFREIE ZINKLEGIERUNG, IHRE VERWENDUNG ALS OPFERANODE, OPFERANODE UND VERFAHREN ZUM KATHODISCHEN SCHUTZ VON KORROSIONSGEFÄHRDETEN KONSTRUKTIONEN IN AGGRESSIVER UMGEBUNG

Title (fr)
ALLIAGE À BASE DE ZINC SANS CADMIUM, SON UTILISATION EN TANT QU ANODE RÉACTIVE, ANODE RÉACTIVE, ET PROCÉDÉ POUR LA PROTECTION CATHODIQUE DE CONSTRUCTIONS PRÉSENTANT UN RISQUE DE CORROSION DANS UN ENVIRONNEMENT AGRESSIF

Publication
EP 2276866 A1 20110126 (EN)

Application
EP 09724942 A 20090325

Priority
• IB 2009051239 W 20090325
• DK PA200800453 A 20080328
• US 4201308 P 20080403

Abstract (en)
[origin: WO2009118693A1] A cadmium-free, zinc-based alloy suitable as a sacrificial anode substantially consists of 0.4- 0 6% by weight of aluminum, 0,02-0.03% by weight of indium, max, 0.001% by weight of cadmium, maximum 0.005% by weight of copper, maximum 0,006% by weight of lead, maximum 0.0005% by weight of tin, maximum 0.10% by weight of other metals, in particular nickel and thallium, and balance zinc having a purity of about 99.995% The alloy shows advantageous properties with respect to resistance to cracking and breaking during post machining of the casting, especially when producing sacrificial anodes having relatively small dimensions.

IPC 8 full level
C22C 18/04 (2006.01); **C23F 13/14** (2006.01)

CPC (source: EP US)
C22C 18/04 (2013.01 - EP US); **C23F 13/14** (2013.01 - EP US)

Citation (search report)
See references of WO 2009118693A1

Cited by
FR2989386A1

Designated contracting state (EPC)
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 SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
WO 2009118693 A1 20091001; AT E523609 T1 20110915; EP 2276866 A1 20110126; EP 2276866 B1 20110907; ES 2373024 T3 20120130; US 2011089047 A1 20110421

DOCDB simple family (application)
IB 2009051239 W 20090325; AT 09724942 T 20090325; EP 09724942 A 20090325; ES 09724942 T 20090325; US 93486709 A 20090325