

Title (en)

COMPOSITION AND METHOD FOR INHIBITION OF CORROSION OF METALS OR METAL ALLOYS

Title (de)

ZUSAMMENSETZUNG UND VERFAHREN ZUR HEMMUNG DER KORROSION VON METALLEN ODER METALLLEGIERUNGEN

Title (fr)

COMPOSITION ET PROCÉDÉ PERMETTANT D'INHIBER LA CORROSION DES MÉTAUX OU D'ALLIAGES MÉTALLIQUES

Publication

EP 3916127 A1 20211201 (EN)

Application

EP 20176457 A 20200526

Priority

EP 20176457 A 20200526

Abstract (en)

The present invention relates to a corrosion inhibition composition for metallic surfaces, a method for inhibition of corrosion of metallic surfaces using the corrosion inhibition composition, a liquid and a solid formulation comprising the corrosion inhibition composition and their use.

IPC 8 full level

C23F 11/12 (2006.01); **C23C 22/68** (2006.01); **C23F 11/10** (2006.01)

CPC (source: EP US)

C23F 11/08 (2013.01 - EP); **C23F 11/10** (2013.01 - EP); **C23F 11/124** (2013.01 - EP); **C23F 11/126** (2013.01 - EP US)

Citation (applicant)

- CN 104403523 A 20150311 - CHANGSHU YIANDA ELECTRIC APPLIANCE CO LTD
- CN 102642934 A 20120822 - INST SEAWATER DESALINATION & MULTIPURPOSE UTILIZATION SOA TIANJIN
- US 2002195590 A1 20021226 - MIKSIC BORIS A [US], et al
- US 3589859 A 19710629 - FOROULIS ZISIS ANDREW
- US 2014241939 A1 20140828 - LU HAIPING [US], et al
- GB 1455247 A 19761110 - HOUSEMAN HEGRO LTD
- US 5130052 A 19920714 - KREH ROBERT P [US], et al
- US 4512915 A 19850423 - LUMARET JEAN-CLAUDE [FR], et al
- P. MANJULA ET AL., E-JOURNAL OF CHEMISTRY, vol. 6, no. 3, 2009, pages 887 - 897
- A. J. AMALRAJ ET AL., ANTI-CORROSION METHODS AND MATERIALS, vol. 48, no. 6, 2001, pages 371 - 375
- F. IVUSIC ET AL., MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK, vol. 44, no. 4, 2013, pages 319 - 329
- O.SANNI ET AL., POLISH JOURNAL OF CHEMICAL TECHNOLOGY, vol. 15, no. 4, 2013, pages 60 - 64
- C. WRUBL ET AL., BR. CORROS. J., vol. 18, no. 3, 1983, pages 142 - 147
- A. S. RAJA ET AL., IJIRSET, vol. 3, no. 4, 2014, pages 11455 - 11467
- J. A. THANGAKANI ET AL., INT. J. NANO. CORR. SCI. ENG., vol. 1, no. 1, 2014, pages 50 - 62
- S. A. RAJA ET AL., EUR. CHEM. BULL., vol. 2, no. 3, 2013, pages 130 - 136
- R. TOUIR ET AL., CORROSION SCIENCE, vol. 50, no. 6, 2008, pages 1530 - 1537
- FLORENCE ET AL., INDIAN JOURNAL OF CHEMICAL TECHNOLOGY, vol. 12, 2005, pages 472 - 476

Citation (search report)

- [X] CN 101485839 A 20090722 - BEIJING TIANKE RENXIANG MEDICAL SCI TECH CO LTD [CN]
- [X] CN 104643190 A 20150527 - ZHOU GUOPING
- [X] CN 108420025 A 20180821 - NINGXIA ZHONGXI DATE IND CO LTD
- [X] CN 101869142 A 20101027 - BEIJING LONGEVITY VITA BIO TECH CO LTD
- [A] US 5531931 A 19960702 - KOEFOD ROBERT S [US]
- [A] MAHDAVIAN M ET AL: "Corrosion inhibition of mild steel in sodium chloride solution by some zinc complexes", CORROSION SCIENCE, OXFORD, GB, vol. 53, no. 4, 7 December 2010 (2010-12-07), pages 1194 - 1200, XP028153310, ISSN: 0010-938X, [retrieved on 20101217], DOI: 10.1016/J.CORSCI.2010.12.013

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3916127 A1 20211201; **EP 3916127 B1 20240703**; US 2023203673 A1 20230629; WO 2021239685 A1 20211202

DOCDB simple family (application)

EP 20176457 A 20200526; EP 2021063804 W 20210525; US 202117998749 A 20210525