

Title (en)

Closed cooling system corrosion inhibitors.

Title (de)

Korrosionsinhibitoren für geschlossenen Kühlkreislaifer.

Title (fr)

Inhibiteurs de la corrosion pour des systèmes de refroidissement fermés.

Publication

EP 0652305 A1 19950510 (EN)

Application

EP 94117381 A 19941103

Priority

US 14555693 A 19931104

Abstract (en)

Novel closed cooling system corrosion preventatives are disclosed. The ingredients include sorbitol, an alkali metal gluconate, and borax. Optionally, yellow metal corrosion inhibitors such as tolyltriazole may be incorporated into the formulation. The mixture is particularly effective in high heat flux and low conductivity closed cooling systems.

IPC 1-7

C23F 11/12; C23F 11/08

IPC 8 full level

C23F 11/08 (2006.01); **C23F 11/12** (2006.01); **C23F 11/14** (2006.01); **C23F 11/16** (2006.01); **C23F 11/18** (2006.01); **C23F 14/02** (2006.01)

CPC (source: EP)

C23F 11/08 (2013.01); **C23F 11/12** (2013.01)

Citation (search report)

- [DPX] US 5330683 A 19940719 - SUFRIN BARRY W [US]
- [Y] DE 3904733 A1 19890831 - KURITA WATER IND LTD [JP]
- [Y] GB 2027002 A 19800213 - CHEMED CORP
- [Y] GB 910138 A 19621107 - ICI LTD
- [A] EP 0451434 A1 19911016 - DENAC NV [BE]
- [A] FR 2054945 A5 19710507 - EXXON RESEARCH ENGINEERING CO
- [A] GB 2162507 A 19860205 - MISAWA HOMES CO
- [A] EP 0112756 A1 19840704 - BP CHIMIE SA [FR]
- [A] EP 0470553 A1 19920212 - BASF CORP [US]
- [A] WERKSTOFFE UND KORROSION, vol. 40, no. 2, February 1989, page R46, abstract no. 89-0560, Weinheim, DE;
- [A] PATENT ABSTRACTS OF JAPAN vol. 7, no. 185 (C - 181)<1330> 17 August 1983 (1983-08-17)

Cited by

DE10311340B4; CN102408880A; CN103608488A; AU2011326374B2; US8961813B2; US7258814B2; US8021607B2; US8187763B2; US9670124B2; US9162959B2; US8025840B2; US9096787B2; US8623943B2; WO2012065001A1; WO03000955A1; WO9639549A1; US9677031B2; US10655086B2; US9187398B2; US9758462B2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0652305 A1 19950510; EP 0652305 B1 19990407; BR 9404329 A 19950704; CA 2134908 A1 19950505; DE 69417685 D1 19990512; DE 69417685 T2 19990916; JP 3383441 B2 20030304; JP H07258871 A 19951009

DOCDB simple family (application)

EP 94117381 A 19941103; BR 9404329 A 19941103; CA 2134908 A 19941102; DE 69417685 T 19941103; JP 27115994 A 19941104