

Title (en)

METHOD AND DEVICE FOR PREVENTING CORROSION IN HOT WATER SYSTEMS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR PRÄVENTION VON KORROSION IN HEISSWASSERSYSTEMEN

Title (fr)

PROCÉDÉ ET DISPOSITIF DE PRÉVENTION DE LA CORROSION DANS DES SYSTÈMES À EAU CHAUDE

Publication

EP 2864714 A4 20160224 (EN)

Application

EP 13776058 A 20130409

Priority

- US 201213442324 A 20120409
- US 2013035713 W 20130409

Abstract (en)

[origin: WO2013155036A1] Disclosed is a method of controlling a real-time oxidation-reduction potential in a hot water system to inhibit corrosion in the hot water system. The method includes defining one or more operational protective zones in the hot water system. One or more of the operational protective zones includes an oxidation-reduction potential probe that is operable to measure a real-time oxidation-reduction potential in the hot water system at operating temperature and pressure. The probe transmits the measured real-time potential to the controller, which assesses and interprets the transmitted potential to determine whether it conforms to an oxidation-reduction potential setting. If the measured potential does not conform the oxidation-reduction potential setting, the controller is operable to feed or remove one or more active chemical species into or from the hot water system and further operable to change at least one system parameter.

IPC 8 full level

F24H 9/00 (2006.01); **C02F 1/00** (2006.01); **F24D 19/00** (2006.01); **F24D 19/10** (2006.01); **F24H 9/20** (2006.01); **C02F 1/20** (2006.01); **C02F 1/30** (2006.01); **C02F 1/32** (2006.01); **C02F 1/66** (2006.01); **C02F 1/70** (2006.01); **C02F 1/72** (2006.01); **C02F 103/02** (2006.01)

CPC (source: EP)

C02F 1/008 (2013.01); **C23F 15/00** (2013.01); **F24D 19/0092** (2013.01); **C02F 1/20** (2013.01); **C02F 1/302** (2013.01); **C02F 1/32** (2013.01); **C02F 1/66** (2013.01); **C02F 1/70** (2013.01); **C02F 1/72** (2013.01); **C02F 2103/02** (2013.01); **C02F 2209/001** (2013.01); **C02F 2209/006** (2013.01); **C02F 2209/008** (2013.01); **C02F 2209/04** (2013.01); **C02F 2303/08** (2013.01)

Citation (search report)

- [Y] WO 2005052213 A2 20050609 - NALCO CO [US]
- [Y] EP 0493869 A1 19920708 - JAPAN GORE TEX INC [JP]

Citation (examination)

- WO 2009015269 A1 20090129 - NALCO CO [US], et al
- See also references of WO 2013155036A1

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

DOCDB simple family (publication)

WO 2013155036 A1 20131017; AR 090505 A1 20141119; AU 2013246154 A1 20140828; AU 2013246154 B2 20170817; CA 2867480 A1 20131017; CA 2867480 C 20181023; CN 104185764 A 20141203; EP 2864714 A1 20150429; EP 2864714 A4 20160224; TW 201418658 A 20140516; TW I641798 B 20181121

DOCDB simple family (application)

US 2013035713 W 20130409; AR P130100984 A 20130326; AU 2013246154 A 20130409; CA 2867480 A 20130409; CN 201380015117 A 20130409; EP 13776058 A 20130409; TW 102112436 A 20130409