

Title (en)
ELECTROLYTIC STERILIZING APPARATUS FOR SHIP BALLAST WATER

Title (de)
ELEKTROLYTISCHE STERILISATIONSVORRICHTUNG FÜR SCHIFFSBALLASTWASSER

Title (fr)
APPAREIL DE STÉRILISATION ÉLECTROLYTIQUE POUR EAU DE BALLAST DE BATEAU

Publication
EP 1945575 A1 20080723 (EN)

Application
EP 06700128 A 20060111

Priority
• KR 2006000116 W 20060111
• KR 20050085605 A 20050914

Abstract (en)
[origin: WO2007032577A1] An electrolytic sterilizing apparatus comprises an electrolytic module (10) including an inlet port (11-1) disposed at one end thereof for allowing ballast water (40) to be introduced therethrough, an outlet port (11-2) disposed at the other end thereof for allowing the ballast water (40) to be discharged therethrough, a baffle unit (20) mounted at the inlet port (11-1) side for generating eddy flow, a sensor (30) mounted at the outlet port (11-2) side for measuring residual chlorine concentration, and a chamber (11) disposed between the baffle unit (20) and the sensor (30), the chamber (11) having electrode sets (12-1) mounted therein, each of the electrode sets (12-1) including a pair of electrodes (12), a power supply unit (50) for supplying power to the electrolytic module (10), and a connecting unit (60) including a pump (61) for introducing and discharging the ballast water (40), a pipe (62) connected to the pump (61), and a valve (63).

IPC 8 full level
C02F 1/461 (2006.01); **B63B 17/06** (2006.01)

CPC (source: EP KR US)
B63B 17/06 (2013.01 - EP US); **B63J 4/002** (2013.01 - KR); **C02F 1/46109** (2013.01 - KR); **C02F 1/467** (2013.01 - KR);
C02F 1/4674 (2013.01 - EP US); **C02F 2001/46138** (2013.01 - KR); **C02F 2001/46142** (2013.01 - EP US); **C02F 2001/46161** (2013.01 - KR);
C02F 2103/008 (2013.01 - EP KR US); **C02F 2201/4611** (2013.01 - EP US); **C02F 2201/46125** (2013.01 - EP US);
C02F 2201/4613 (2013.01 - EP KR US); **C02F 2201/46145** (2013.01 - EP US); **C02F 2201/4615** (2013.01 - EP US);
C02F 2201/4616 (2013.01 - EP US); **C02F 2201/4617** (2013.01 - KR); **C02F 2209/003** (2013.01 - KR); **C02F 2209/29** (2013.01 - EP US);
C02F 2303/04 (2013.01 - EP KR US); **C02F 2305/023** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2007032577 A1 20070322; CN 101331087 A 20081224; CN 101331087 B 20120411; EP 1945575 A1 20080723; EP 1945575 A4 20100303;
JP 2009507638 A 20090226; JP 4723647 B2 20110713; KR 100597254 B1 20060706; US 2008277274 A1 20081113

DOCDB simple family (application)
KR 2006000116 W 20060111; CN 200680033340 A 20060111; EP 06700128 A 20060111; JP 2008530994 A 20060111;
KR 20050085605 A 20050914; US 6669606 A 20060111