

Title (en)

GAS GENERATION DEVICE AND GAS GENERATION METHOD

Title (de)

GASERZEUGUNGSVORRICHTUNG UND GASERZEUGUNGSVERFAHREN

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR LA PRODUCTION DE GAZ

Publication

EP 2559790 A1 20130220 (EN)

Application

EP 11768584 A 20110323

Priority

- JP 2010093437 A 20100414
- JP 2011001709 W 20110323

Abstract (en)

A control device receives an output signal from a liquid level sensor disposed in an anode chamber. This output signal indicates whether the liquid level of the electrolytic bath in the anode chamber is higher than a reference level. When the liquid level of the electrolytic bath in the anode chamber is higher than the reference level, the control device increases, by a prescribe value, the frequency of a compressor driving voltage that is generated in an inverter circuit. This increases the rotational speed of a motor in the compressor, increases the discharge pressure of hydrogen gas being discharged from the compressor, and decreases the pressure inside the cathode chamber. As a result, the liquid level of the electrolytic bath in the cathode chamber rises, and the liquid level of the electrolytic bath in the anode chamber falls below the reference level.

IPC 8 full level

C25B 1/24 (2006.01); **C25B 9/00** (2006.01); **C25B 15/02** (2006.01)

CPC (source: EP KR US)

C25B 1/245 (2013.01 - EP KR US); **C25B 9/00** (2013.01 - EP US); **C25B 9/23** (2021.01 - KR); **C25B 15/023** (2021.01 - KR); **C25B 15/08** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2011129057A1

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)

EP 2559790 A1 20130220; CN 102834549 A 20121219; CN 102834549 B 20151125; JP 2011219847 A 20111104; JP 5567375 B2 20140806; KR 20130040817 A 20130424; US 2013068627 A1 20130321; WO 2011129057 A1 20111020

DOCDB simple family (application)

EP 11768584 A 20110323; CN 201180018767 A 20110323; JP 2010093437 A 20100414; JP 2011001709 W 20110323; KR 20127026463 A 20110323; US 201113641294 A 20110323