

Title (en)
EXHAUST GAS TREATMENT APPARATUS, AND SHIP COMPRISING SAME

Title (de)
ABGASBEHANDLUNGSVORRICHTUNG UND SCHIFF DAMIT

Title (fr)
APPAREIL DE TRAITEMENT DES GAZ D'ÉCHAPPEMENT ET NAVIRE LE COMPRENANT

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Application
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- KR 20190077071 A 20190627
- KR 20190077076 A 20190627
- KR 2019018820 W 20191231

Abstract (en)
[origin: EP3904648A1] Disclosed is an exhaust gas treatment apparatus, and a ship comprising same. An exhaust gas treatment apparatus according to one embodiment of the present invention comprises: a reactor into which exhaust gas is introduced; and a treatment unit which is provided inside the reactor and sprays the exhaust gas with a treatment liquid or with a cooling liquid and a treatment liquid to remove carbon dioxide from the exhaust gas, wherein the treatment liquid is an alkaline aqueous solution which chemically adsorbs the carbon dioxide contained in the exhaust gas, thereby removing the carbon dioxide from the exhaust gas, and waste water, which is the cooling liquid or treatment liquid sprayed onto the exhaust gas and used to remove the carbon dioxide from the exhaust gas, can be drained or recovered such that the treatment liquid can be separated from the waste water.

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Citation (search report)

- [X] KR 20130078308 A 20130710 - STX INST OF TECHNOLOGY CO LTD [KR]
- [X] KR 101379856 B1 20140401 - DAEWOO ENG & CONSTR CO LTD [KR], et al
- [X] GB 2547696 A 20170830 - ALLAN JOHN BROWN [GB]
- [X] KR 101740614 B1 20170526 - JEIPLEENERGY CO LTD [KR]
- See references of WO 2020141867A1

Cited by
CN116658274A

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