

Title (en)

Apparatus and method for conditioned removal of gases

Title (de)

Vorrichtung und Verfahren zur konditionierten Gasentfernung

Title (fr)

Appareil et procédé de suppression conditionnée de gaz

Publication

EP 2857556 A1 20150408 (EN)

Application

EP 13187144 A 20131002

Priority

EP 13187144 A 20131002

Abstract (en)

An apparatus (1) is disclosed for the removal of gasses from electrolysis cells (3) by suction comprising a branch duct (5) for each electrolysis cell, a ductwork (4) connecting the branch ducts to a gas treatment centre (9), a central suction fan (11) providing a gas flow in the ducts, and a heat exchanger (15) arranged in the gas flow. The heat exchanger comprises one or more heat exchanger elements (17) in at least one of the branch ducts and the ductwork. One or more of the heat exchanger elements are removably arranged in the at least one of the branch ducts and the ductwork and/or the heat exchanger comprises a plate heat exchanger (15) comprising one or more heat exchanger plates (17).

IPC 8 full level

C25C 3/22 (2006.01)

CPC (source: EP)

C25C 3/22 (2013.01)

Citation (applicant)

- EP 2407228 A1 20120118 - ALSTOM TECHNOLOGY LTD [CH]
- EL HANI BOUHABILA ET AL.: "An innovative compact heat exchanger solution for an aluminium off-gas cooling and heat recovery", LIGHT METALS, 2013, pages 793 - 797

Citation (search report)

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- [YD] EP 2407228 A1 20120118 - ALSTOM TECHNOLOGY LTD [CH]
- [Y] US 4222841 A 19800916 - MILLER JOHN J
- [Y] CN 101435089 A 20090520 - BEIJING BESTPOWER ELECTRIC TEC [CN]
- [Y] CN 202849556 U 20130403 - LINZHOU LINFENG ALUMINIUM & ELECTRICITY CO LTD
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- [A] US 6893619 B1 20050517 - JAMES BRIAN DAVID [US], et al

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CN106894050A

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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