

Title (en)

System and process for collecting effluents from an electrolytic cell

Title (de)

Einrichtung und Verfahren zur Sammlung der Abflüsse einer Elektrolysezelle

Title (fr)

Système et procédé de récupération des effluents émanant d'une cellule d'électrolyse

Publication

EP 1845175 A1 20071017 (EN)

Application

EP 06356042 A 20060411

Priority

EP 06356042 A 20060411

Abstract (en)

The invention provides a system and a process for collecting effluents produced by an electrolysis cell (1) intended for the production of aluminium and for drawing said effluents away from the cell in a flow of gas. The system comprising a hooding (20) to confine the effluents, at least one outlet channel (25) to collect said flow of gas and suction means to draw said flow of gas away from the cell. The hooding (20) includes removable hoods (21) and, optionally, at least one door (23) to get access to the inside of the hooding. The system further comprises at least one pipe (50) for blowing pressurized air within the outlet channel (25) so as to increase the rate of said flow of gas. Pressurized air supply (53) is activated at a specified pressure P_o so as to obtain a specified flow rate R_o .

IPC 8 full level

C25C 3/22 (2006.01)

CPC (source: EP NO US)

B08B 15/002 (2013.01 - EP US); **C25C 3/22** (2013.01 - EP NO US); **F23J 11/02** (2013.01 - EP US); **F23L 17/16** (2013.01 - EP US)

Citation (search report)

- [DY] US 4668352 A 19870526 - DUPRAT GEORGE [FR], et al
- [Y] EP 0772003 A1 19970507 - AMPHOUX ANDRE [FR]
- [A] EP 0329498 A1 19890823 - PAZIAUD JACQUES
- [A] DE 4004717 A1 19900927 - SCHEUCH ALOIS GMBH [AT]
- [A] US 2006009147 A1 20060112 - HUANG RONG F [TW], et al
- [A] DE 19920058 A1 20001109 - ESTA APPARATEBAU [DE]
- [A] DE 1161040 B 19640109 - METALLGESELLSCHAFT AG

Cited by

NL1035667C2; FR2969937A1; ITTO20090517A1; NL1035369C2; NO20190343A1; WO2012017165A1; US9732432B2; WO2015162336A1; EP2248605A1

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

Designated extension state (EPC)

BA

DOCDB simple family (publication)

EP 1845175 A1 20071017; EP 1845175 B1 20110216; AR 060596 A1 20080702; AT E498713 T1 20110315; AU 2007237131 A1 20071018; AU 2007237131 B2 20110602; BR PI0710184 A2 20110809; CA 2649266 A1 20071018; CA 2649266 C 20131217; CN 101460663 A 20090617; CN 101460663 B 20111116; DE 602006020112 D1 20110331; EP 2007929 A2 20081231; ES 2360871 T3 20110609; MY 147259 A 20121114; NO 20084736 L 20090108; NO 345106 B1 20200928; RU 2008144402 A 20100520; RU 2436872 C2 20111220; SI 1845175 T1 20110630; US 2009159434 A1 20090625; WO 2007116320 A2 20071018; WO 2007116320 A3 20080904; ZA 200807450 B 20091230

DOCDB simple family (application)

EP 06356042 A 20060411; AR P070101542 A 20070411; AT 06356042 T 20060411; AU 2007237131 A 20070404; BR PI0710184 A 20070404; CA 2649266 A 20070404; CN 200780012940 A 20070404; DE 602006020112 T 20060411; EP 07734843 A 20070404; ES 06356042 T 20060411; IB 2007001612 W 20070404; MY PI20084020 A 20070404; NO 20084736 A 20081110; RU 2008144402 A 20070404; SI 200631004 T 20060411; US 29686007 A 20070404; ZA 200807450 A 20070404