

Title (en)
Shut-down process for membrane electrolytic cell with oxygen reducing cathode

Title (de)
Verfahren zur Abschaltung einer Membran-Elektrolysezelle mit Sauerstoff verzehrende Kathode

Title (fr)
Procédé d'immobilisation d'une cellule d'électrolyse à membrane et à cathode à réduction d'oxygène

Publication
EP 0922789 A1 19990616 (FR)

Application
EP 98403036 A 19981203

Priority
FR 9715607 A 19971210

Abstract (en)
An oxygen reduction cathode type membrane electrolysis cell is immobilized by filling the gas compartment with demineralized water of pH ≤ 7 . A membrane electrolysis cell, with an oxygen reduction cathode, is immobilized by terminating current and oxygen supply to the cell, filling the emptied gas compartment with demineralized water of pH ≤ 7 , rinsing the cathode with the demineralized water of the gas compartment until the pH equals that of the introduced water and keeping the gas compartment filled with the demineralized water throughout the immobilization period. Preferred Feature: The anodic compartment is emptied and refilled with clean anolyte of the same type and concentration and the soda compartment is emptied and refilled with a 0.5-5 mol/l caustic soda solution.

Abstract (fr)
L'invention concerne un procédé d'immobilisation d'une cellule d'électrolyse à membrane et à cathode à réduction d'oxygène, qui consiste, après avoir supprimé les alimentations en courant électrique et en oxygène, à vidanger le compartiment oxygène et à le remplir avec de l'eau déminéralisée ayant un pH ≤ 7 et à maintenir cette eau dans le compartiment oxygène pendant toute la durée de l'immobilisation.

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C25B 15/02

IPC 8 full level
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C25B 1/46 (2013.01 - KR); **C25B 9/23** (2021.01 - KR); **C25B 15/02** (2013.01 - EP US); **C25B 15/023** (2021.01 - KR); **C25B 15/08** (2013.01 - KR)

Citation (search report)

- [X] US 4185142 A 19800122 - LABARRE RONALD L [US], et al
- [A] DATABASE WPI Section Ch Week 9408, Derwent World Patents Index; Class E36, AN 94-062412, XP002073973

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Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)
EP 0922789 A1 19990616; **EP 0922789 B1 20020904**; AT E223522 T1 20020915; BR 9805256 A 19991214; CA 2254001 A1 19990610; CA 2254001 C 20020423; CN 1106458 C 20030423; CN 1224082 A 19990728; DE 69807638 D1 20021010; DE 69807638 T2 20030522; ES 2182247 T3 20030301; FR 2772051 A1 19990611; FR 2772051 B1 19991231; JP 3140743 B2 20010305; JP H11269690 A 19991005; KR 100282769 B1 20010502; KR 19990062970 A 19990726; NO 320764 B1 20060123; NO 985785 D0 19981210; NO 985785 L 19990611; PT 922789 E 20030131; US 6203687 B1 20010320

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EP 98403036 A 19981203; AT 98403036 T 19981203; BR 9805256 A 19981209; CA 2254001 A 19981208; CN 98111667 A 19981210; DE 69807638 T 19981203; ES 98403036 T 19981203; FR 9715607 A 19971210; JP 35148998 A 19981210; KR 19980054257 A 19981210; NO 985785 A 19981210; PT 98403036 T 19981203; US 20858698 A 19981210