

Title (en)

Method for improving the performance of nickel electrodes

Title (de)

Verfahren zur Leistungsverbesserung von Nischelektroden

Title (fr)

Procédé destiné à l'amélioration de la performance d'électrodes au nickel

Publication

EP 1953270 A1 20080806 (DE)

Application

EP 08000438 A 20080111

Priority

DE 102007003554 A 20070124

Abstract (en)

Method for improving the performance of nickel electrodes used in sodium chloride electrolysis comprises adding a platinum compound, especially hexachloroplatinic acid or alkali platinate, soluble in water or in alkali during the electrolysis.

Abstract (de)

Die Erfindung betrifft ein Verfahren zur Verbesserung der Leistung von Nischelektroden in der Alkalichloridelektrolyse mittels Zugabe von wasserlöslichen Platinverbindungen zum Katholyt.

IPC 8 full level

C25B 15/08 (2006.01); **C25B 1/46** (2006.01); **C25B 11/04** (2006.01)

CPC (source: EP KR US)

C25B 1/46 (2013.01 - EP KR US); **C25B 11/051** (2021.01 - EP KR US); **C25B 11/075** (2021.01 - EP KR US); **C25B 15/08** (2013.01 - EP KR US); **C25D 3/50** (2013.01 - KR US); **C25D 3/567** (2013.01 - KR US); **C25D 5/18** (2013.01 - EP KR US); **C25D 21/14** (2013.01 - KR US); **C25D 21/18** (2013.01 - KR US)

Citation (applicant)

- EP 0298055 A1 19890104 - PERMELEC ELECTRODE LTD [JP]
- US 5035789 A 19910730 - BEAVER RICHARD N [US], et al
- US 4555317 A 19851126 - NICOLAS EDGARD [BE], et al
- EP 1487747 A1 20041222 - HANWHA CHEMICAL CORP [KR]
- JP S6411988 A 19890117 - KANEGAFUCHI CHEMICAL IND
- US 4105516 A 19780808 - MARTINSONS ALEKSANDRS, et al
- US 4160704 A 19790710 - KUO HAN C, et al
- EP 0129374 A1 19841227 - ICI PLC [GB]

Citation (search report)

- [Y] US 5227030 A 19930713 - BEAVER RICHARD N [US], et al
- [Y] DE 4232958 C1 19930916
- [AD] US 2004238373 A1 20041202 - KIM DAE-SIK [KR], et al
- [XD] DATABASE WPI Week 198908, Derwent World Patents Index; AN 1989-058677, XP002479053

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 1953270 A1 20080806; **EP 1953270 B1 20151209**; BR PI0800044 A 20080916; CA 2618205 A1 20080724; CN 101302624 A 20081112; CN 101302624 B 20160803; DE 102007003554 A1 20080731; JP 2008179896 A 20080807; JP 2013213284 A 20131017; JP 5679621 B2 20150304; JP 5732111 B2 20150610; KR 20080069913 A 20080729; KR 20150082163 A 20150715; RU 2008101765 A 20090727; RU 2443803 C2 20120227; SG 144842 A1 20080828; TW 200846500 A 20081201; TW I437128 B 20140511; US 2008257749 A1 20081023; US 2012325674 A1 20121227; US 9273403 B2 20160301

DOCDB simple family (application)

EP 08000438 A 20080111; BR PI0800044 A 20080124; CA 2618205 A 20080121; CN 200810003828 A 20080124; DE 102007003554 A 20070124; JP 2008012599 A 20080123; JP 2013149171 A 20130718; KR 20080006886 A 20080123; KR 20150092206 A 20150629; RU 2008101765 A 20080123; SG 2008004236 A 20080117; TW 97102420 A 20080123; US 1629108 A 20080118; US 201213602827 A 20120904