

Title (en)

RARE EARTH REMOVAL OF HYDRATED AND HYDROXYL SPECIES

Title (de)

ENTFERNUNG SELTENER ERDEN AUS HYDRIERTEN UND HYDROXYLIERTEN SPEZIES

Title (fr)

ELIMINATION PAR TERRES RARES D'ESPÈCES HYDRATÉES ET HYDROXYLÉES

Publication

EP 2697174 A4 20150902 (EN)

Application

EP 12771706 A 20120328

Priority

- US 201161474902 P 20110413
- US 201161475155 P 20110413
- US 201161476667 P 20110418
- US 201161484919 P 20110511
- US 201161495731 P 20110610
- US 201161496425 P 20110613
- US 201161538634 P 20110923
- US 201113244092 A 20110923
- US 201113244117 A 20110923
- US 201161539780 P 20110927
- US 201161546803 P 20111013
- US 201161553809 P 20111031
- US 201161558887 P 20111111
- US 201161564132 P 20111128
- US 201213356581 A 20120123
- US 201213356574 A 20120123
- US 201261596851 P 20120209
- US 201213410081 A 20120301
- US 201261613883 P 20120321
- US 201261613857 P 20120321
- US 201261614427 P 20120322
- US 201261614418 P 20120322
- US 201213433097 A 20120328
- US 201213432895 A 20120328
- US 2012030976 W 20120328

Abstract (en)

[origin: WO2012141896A1] This disclosure relates generally to methods and rare earth-containing additives removing target materials in the form of hydroxides, carbonates, hydrates, or oxyhydroxyls from, a typically aqueous, liquid medium.

IPC 8 full level

C02F 5/08 (2006.01)

CPC (source: EP KR)

C02F 1/5236 (2013.01 - EP); **C02F 1/58** (2013.01 - KR); **C02F 2103/20** (2013.01 - EP); **Y02W 10/37** (2015.05 - EP)

Citation (search report)

- [XP] WO 2011130427 A1 20111020 - MOLYCORP MINERALS LLC [US], et al
- [X] US 2010258448 A1 20101014 - WHITEHEAD CHARLES F [US], et al
- [X] US 7338603 B1 20080304 - MCNEW EDWARD BAYER [US], et al
- See references of WO 2012141896A1

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

DOCDB simple family (publication)

WO 2012141896 A1 20121018; AU 2012243138 A1 20131128; AU 2012243138 B2 20160204; BR 112013026251 A2 20201110; CA 2832908 A1 20121018; CA 2832908 C 20200421; CN 103596886 A 20140219; EP 2697174 A1 20140219; EP 2697174 A4 20150902; JP 2014518538 A 20140731; JP 2018051557 A 20180405; JP 6295393 B2 20180320; KR 102015961 B1 20190829; KR 20140022416 A 20140224

DOCDB simple family (application)

US 2012030976 W 20120328; AU 2012243138 A 20120328; BR 112013026251 A 20120328; CA 2832908 A 20120328; CN 201280029348 A 20120328; EP 12771706 A 20120328; JP 2014505164 A 20120328; JP 2017188643 A 20170928; KR 20137029943 A 20120328