



US009410227B2

(12) **United States Patent**
Boudreault et al.

(10) **Patent No.:** **US 9,410,227 B2**
(45) **Date of Patent:** **Aug. 9, 2016**

(54) **PROCESSES FOR RECOVERING RARE EARTH ELEMENTS FROM VARIOUS ORES**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 236 days.

(21) Appl. No.: **14/115,387**

(22) PCT Filed: **May 3, 2012**

(86) PCT No.: **PCT/CA2012/000419**

§ 371 (c)(1),
(2), (4) Date: **Apr. 4, 2014**

(87) PCT Pub. No.: **WO2012/149642**

PCT Pub. Date: **Nov. 8, 2012**

(65) **Prior Publication Data**

US 2014/0373683 A1 Dec. 25, 2014

Related U.S. Application Data

(63) Continuation-in-part of application No. PCT/CA2012/000253, filed on Mar. 19, 2012.

(60) Provisional application No. 61/482,253, filed on May 4, 2011, provisional application No. 61/535,435, filed on Sep. 16, 2011.

(51) **Int. Cl.**
C22B 3/10 (2006.01)
C22B 3/46 (2006.01)
(Continued)

(52) **U.S. Cl.**
CPC **C22B 59/00** (2013.01); **C22B 3/0005** (2013.01); **C22B 3/10** (2013.01); **C22B 3/46** (2013.01);

(Continued)

(58) **Field of Classification Search**

CPC C22B 3/10; C22B 3/44; C22B 3/46;
C22B 3/005; C22B 3/0004; C22B 7/004;
C22B 26/12; C22B 34/14; C22B 58/00;
C22B 59/00

See application file for complete search history.

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(57) **ABSTRACT**

The present disclosure relates to processes for recovering rare earth elements from various materials. The processes can comprise leaching the at least one material with at least one acid so as to obtain a leachate comprising at least one metal ion and at least one rare earth element, and a solid, and separating the leachate from the solid. The processes can also comprise substantially selectively removing at least one of the at least one metal ion from the leachate and optionally obtaining a precipitate. The processes can also comprise substantially selectively removing the at least one rare earth element from the leachate and/or the precipitate.

20 Claims, 5 Drawing Sheets

