

Title (en)
PROCESS OF MAKING NIOBIUM OXIDE.

Title (de)
VERFAHREN ZUR HERSTELLUNG VON NIOBIUMOXID.

Title (fr)
PROCEDE DE PRODUCTION D'OXYDE DE NIOBIUM.

Publication
EP 0591459 A4 19950412 (EN)

Application
EP 92915641 A 19920626

Priority
• US 9205325 W 19920626
• US 72188691 A 19910627

Abstract (en)
[origin: WO9300292A1] A method for preparing and recovering metal oxides from their ferrometal and nickel metal alloys. Exemplary steps of the process include reacting the alloy with hydrogen followed by subdividing the hydrided product and nitriding the subdivided material to form mixed metal nitrides. The mixed metal nitrides are then contacted with an aqueous acid leach portion to dissolve any ferro or nickel nitride present. The insoluble metal nitrides are then reacted to form the metal oxide product.

IPC 1-7
C01B 13/14; **C01G 31/02**; **C01G 33/00**; **C01G 49/02**

IPC 8 full level
C01B 6/24 (2006.01); **C01B 13/14** (2006.01); **C01B 13/32** (2006.01); **C01B 21/06** (2006.01); **C01B 33/113** (2006.01); **C01G 31/02** (2006.01); **C01G 33/00** (2006.01); **C01G 35/00** (2006.01)

CPC (source: EP)
C01B 6/24 (2013.01); **C01B 13/322** (2013.01); **C01B 21/06** (2013.01); **C01B 21/0617** (2013.01); **C01G 31/02** (2013.01); **C01G 33/00** (2013.01); **C01G 35/00** (2013.01); **C01P 2006/80** (2013.01); **C01P 2006/82** (2013.01)

Citation (search report)
• [A] FR 1335556 A 19630823 - COMMISSARIAT ENERGIE ATOMIQUE
• [A] PATENT ABSTRACTS OF JAPAN vol. 015, no. 173 (C - 0828) 2 May 1991 (1991-05-02)
• [PA] PATENT ABSTRACTS OF JAPAN vol. 016, no. 043 (C - 0907) 4 February 1992 (1992-02-04)
• [T] LIGHT METALS 1992, Proc. of the 121st TMS annual meeting, 1-5/3/1992; TMS, 1992, Warrendale (US), 1992 * page 1305-1307, by J.A. Sommers et al. *
• [T] LIGHT METALS 1992, Proc. of the 121st TMS annual meeting, 1-5/3/1992; TMS, 1992, Warrendale (US) 1992 * page 1303-1304, by J.A. Sommers et al. *
• See references of WO 9300292A1

Designated contracting state (EPC)
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WO 9300292 A1 19930107; AU 2316792 A 19930125; BR 9206195 A 19941213; EP 0591459 A1 19940413; EP 0591459 A4 19950412; JP 3406597 B2 20030512; JP H07500078 A 19950105

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