

Title (en)

METALLOTHERMIC REDUCTION OF RARE EARTH OXIDES WITH CALCIUM METAL

Publication

**EP 0170372 B1 19880817 (EN)**

Application

**EP 85304046 A 19850607**

Priority

US 62773684 A 19840703

Abstract (en)

[origin: EP0170372A1] Rare earth oxides can be reduced to rare earth metals by, a novel, high yield, metallothemic process. The oxides are dispersed in a suitable, molten, calcium chloride-based bath (44) along with calcium metal. The bath (44) is agitated and calcium metal reduces the rare earth oxides to rare earth metals. The metals collect in a discrete layer (43) in the reaction vessel (22).

IPC 1-7

**C22B 59/00**; **C22B 5/04**

IPC 8 full level

**C22B 26/20** (2006.01); **C22B 5/04** (2006.01); **C22B 59/00** (2006.01)

CPC (source: EP KR)

**C22B 5/00** (2013.01 - KR); **C22B 5/04** (2013.01 - EP); **C22B 59/00** (2013.01 - EP)

Cited by

EP0265413A3; EP0254251A3; EP0343378A1; CN103436718A; US2013056193A1; CN111139366A; EP0364089A1; EP0319770A1; EP0238185A1; AU584494B2; US11607734B2; WO2009139667A1; WO2004007808A1

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