

Title (en)
ELECTROCHEMICAL REDUCTION OF METAL OXIDES

Title (de)
ELEKTROCHEMISCHE REDUKTION VON METALLOXIDEN

Title (fr)
REDUCTION ELECTROCHIMIQUE D'OXYDES METALLIQUES

Publication
EP 1682696 A4 20070620 (EN)

Application
EP 04761366 A 20040927

Priority
• AU 2004001331 W 20040927
• AU 2003905261 A 20030926

Abstract (en)
[origin: WO2005031041A1] An electrolytic cell (1) for reducing metal oxide powders and/or pellets in a continuous or semi-continuous manner, the cell includes a cathode (25) in the form of a plate that has an upper surface for supporting metal oxide powders and/or pellets. The plate is supported for movement so as to cause the metal oxide on the upper surface to move toward a forward end of the plate while immersed in a molten electrolyte (21). The cell includes multiple anodes (23) and support structures (63,65) that separately support the cathode and the anodes from above the cell. In a preferred embodiment the anode support structure enables adjustment of the spacing of the anodes above the upper surface of the cathode.

IPC 8 full level
C25C 5/04 (2006.01); **C25C 7/00** (2006.01); **C25C 7/02** (2006.01)

CPC (source: EP US)
C25C 5/04 (2013.01 - EP US); **C25C 7/005** (2013.01 - EP US); **C25C 7/007** (2013.01 - EP US)

Citation (search report)
• No further relevant documents disclosed
• See references of WO 2005031041A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005031041 A1 20050407; CA 2540234 A1 20050407; CN 1882718 A 20061220; EP 1682696 A1 20060726; EP 1682696 A4 20070620; RU 2006114034 A 20071120; US 2007193877 A1 20070823; ZA 200602500 B 20070829

DOCDB simple family (application)
AU 2004001331 W 20040927; CA 2540234 A 20040927; CN 200480034241 A 20040927; EP 04761366 A 20040927; RU 2006114034 A 20040927; US 57343404 A 20040927; ZA 200602500 A 20060327