

Title (en)
COMPOSITE OF TiB₂-GRAPHITE.

Title (de)
TiB₂-GRAPHIT-KOMPOSIT.

Title (fr)
COMPOSITE DE TiB₂-GRAPHITE.

Publication
EP 0084059 A4 19840517 (EN)

Application
EP 82902609 A 19820722

Priority
• US 28712481 A 19810727
• US 28712981 A 19810727

Abstract (en)
[origin: WO8300347A1] Titanium diboride graphite composite articles are produced by mixing TiO₂, petroleum coke and a binder to form a plastic dispersion. Articles are shaped by molding or extrusion and baked to carbonize the binder to form a baked carbon-TiO₂ composite. The article is impregnated with a molten or dispersed boron compound, or with a boron compound mixed with carbon black, then heated to drive TiB₂ forming reaction. The article is then further heated to a graphitizing temperature to form a graphite-TiB₂ composite useful as a cathode component in a Hall aluminum reduction cell.

IPC 1-7
C25C 3/06; B05D 5/12

IPC 8 full level
C04B 35/52 (2006.01); **C04B 35/58** (2006.01); **C25C 3/08** (2006.01)

CPC (source: EP)
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Citation (search report)
• [Y] US 3676371 A 19720711 - ZOLLNER DIETER, et al
• [YPD] WO 8201018 A1 19820401 - GREAT LAKES CARBON CORP [US]
• [A] US 3351428 A 19671107 - LESLIE TITUS, et al

Designated contracting state (EPC)
AT BE CH DE FR GB LI SE

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WO 8300347 A1 19830203; BR 8207804 A 19830719; EP 0084059 A1 19830727; EP 0084059 A4 19840517; JP S58501173 A 19830721

DOCDB simple family (application)
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