

Title (en)
Galvanic bath

Title (de)
Galvanikbad

Title (fr)
Bain de galvanisation

Publication
EP 1717351 A1 20061102 (DE)

Application
EP 05009183 A 20050427

Priority
EP 05009183 A 20050427

Abstract (en)
A galvanic bath, especially an acidic galvanic bath, comprises an anode (1), a cathode and an electrolyte. The anode has two or more phases, and the electrolyte comprises more than 70 mg/l chloride and 5-5000 mg/l, especially 200-1200 mg/l of either molybdenum, vanadium, zirconium, tantalum, tungsten, hafnium or titanium in oxo-acidic anion or polyanion form, or acid anhydride cation form.

IPC 8 full level
C25D 3/02 (2006.01); **C25D 3/56** (2006.01); **C25D 17/12** (2006.01)

CPC (source: EP KR US)
C25D 3/02 (2013.01 - EP KR US); **C25D 3/56** (2013.01 - EP US); **C25D 17/12** (2013.01 - EP US)

Citation (applicant)
• WO 2004059045 A2 20040715 - METAKEM GES FUER SCHICHTCHEMIE [DE], et al
• US 2004060728 A1 20040401 - STEIERT PHILIPPE [CH], et al
• EP 0625593 A2 19941123 - LEARONAL INC [US]
• EP 1310582 A1 20030514 - SHIPLEY CO LLC [US]
• US 3857683 A 19741231 - CASTONGUAY R

Citation (search report)
• [Y] WO 2004059045 A2 20040715 - METAKEM GES FUER SCHICHTCHEMIE [DE], et al
• [Y] US 2004060728 A1 20040401 - STEIERT PHILIPPE [CH], et al
• [Y] EP 0625593 A2 19941123 - LEARONAL INC [US]
• [Y] EP 1310582 A1 20030514 - SHIPLEY CO LLC [US]
• [Y] US 3857683 A 19741231 - CASTONGUAY R

Citation (examination)
US 6129830 A 20001010 - SENGE GERD [DE], et al

Cited by
EP1803837A1

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

Designated extension state (EPC)
AL BA HR LV MK YU

DOCDB simple family (publication)
EP 1717351 A1 20061102; CN 1854352 A 20061101; CN 1854352 B 20100922; JP 2006307344 A 20061109; JP 4404871 B2 20100127; KR 100741198 B1 20070719; KR 20060113344 A 20061102; TW 200704831 A 20070201; TW I332533 B 20101101; US 2006272951 A1 20061207

DOCDB simple family (application)
EP 05009183 A 20050427; CN 200510120105 A 20051102; JP 2006121511 A 20060426; KR 20050122525 A 20051213; TW 95107051 A 20060302; US 38055906 A 20060427