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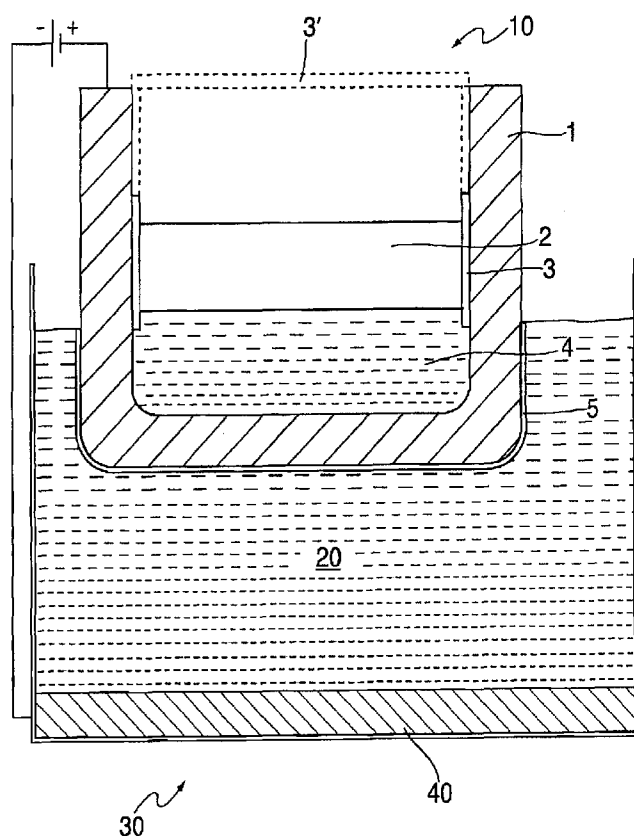
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[Continued on next page]

(54) Title: ANODE FOR ELECTROLYSIS OF ALUMINUM



(57) Abstract: The present invention relates to a dimensionally stable oxygen-evolving anode for use in an electrolytic cell for the production of aluminium. The anode comprises of a container made from an alloy comprising aluminium and at least one metal more noble than aluminium; a fluid bath in the bottom of the container having the ability to dissolve aluminium, said fluid having a density that is higher than the density of molten aluminium at the operating temperature of the cell, a pool of molten aluminium floating on top of the fluid bath in the bottom of the container; a refractory layer arranged on the inner sidewalls of the container at least in the area of the pool of molten aluminium, said refractory layer protecting the molten aluminium from contacting the inner sidewalls of the container.



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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A. CLASSIFICATION OF SUBJECT MATTER

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USPC - 205/372, 380

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPTO, www.Answers.com, PubWEST, www.Google.com

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Databases Searched: DB=PGPB,USPT,USOC,EPAB,JPAB; PLUR=NO; OP=ADJ; Search terms used: Aluminum, anode, oxygen, molten, alloy, metal, aluminum, copper, nickel, iron, fluid, sidewalls, walls, electrolytic, cell, insulating, salt, dense, refractory, layer

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/0011661 A1 (BRADFORD et al.) 22 January 2004 (22.01.2004) para [0004], [0006]-[0008], [0010], [0012]-[0014], [0016], [0018], [0020], [0022], [0023], [0025], [0026], [0033], [0034], [0036], [0039], [0045]-[0050] and [0053]-[0055]; See claims 2, 3, and 36.	1-5, 12 and 16-20
Y		6-11, and 13-15
Y	US 4,347,083 A (SARA) 31 August 1982 (31.08.1982) col 3, ln 27-32	6
Y	US 2005/0199508 A1 (D'ASTOLTO et al.) 15 September 2005 (15.09.2005) para [0028] and [0029]	7-11, 13-15
Y	US 6,395,423 B1 (KAWAKAMI et al.) 28 May 2002 (28.05.2002) col 23, ln 14, col 38, ln 17	14 and 15

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"&" document member of the same patent family

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