



(12) **CORRECTED EUROPEAN PATENT SPECIFICATION**

(15) Correction information:
Corrected version no 1 (W1 B1)
Corrections, see
Bibliography INID code(s) 73

(48) Corrigendum issued on:
26.07.2017 Bulletin 2017/30

(45) Date of publication and mention
of the grant of the patent:
03.05.2017 Bulletin 2017/18

(21) Application number: **09849355.4**

(22) Date of filing: **15.09.2009**

(51) Int Cl.:
B01D 21/01 (2006.01) **B01D 21/02** (2006.01)
B09B 3/00 (2006.01) **C10C 3/14** (2006.01)
C10G 1/04 (2006.01) **F26B 3/00** (2006.01)
C02F 11/00 (2006.01) **C02F 11/14** (2006.01)
C02F 103/36 (2006.01)

(86) International application number:
PCT/CA2009/001303

(87) International publication number:
WO 2011/032253 (24.03.2011 Gazette 2011/12)

(54) **PROCESS FOR DRYING FINE TAILINGS**

VERFAHREN ZUR TROCKNUNG VON BRUCHFEINMATERIAL

PROCÉDÉ DE SÉCHAGE DE RÉSIDUS FINS

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL
PT RO SE SI SK SM TR
Designated Extension States:
AL BA RS

(43) Date of publication of application:
25.07.2012 Bulletin 2012/30

(60) Divisional application:
17161646.9

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(56) References cited:
WO-A1-02/079099 WO-A1-2009/009887
US-A- 5 839 828

• **Kingsley Emeka Ezeagwul: "STUDIES ON FLOCCULATION OF KAOLIN SUSPENSIONS AND MATURE FINE TAILINGS", , 1 January 2008 (2008-01-01), XP055131280, ISBN: 978-0-49-447210-1 Retrieved from the Internet: URL: <http://www.collectionscanada.gc.ca/obj/thesescanada/vol2/002/MR47210.PDF> [retrieved on 2014-07-23]**
• **"Sludge polymer injection wafer four port", , 3 April 2007 (2007-04-03), XP055131270, Retrieved from the Internet: URL: http://inyoprocess.com/images/PDFs/injection_disk-polymer-sludge.pdf [retrieved on 2014-07-23]**

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- FRANKS G V ET AL: "Aggregate size and density after shearing, implications for dewatering fine tailings with hydrocyclones", INTERNATIONAL JOURNAL OF MINERAL PROCESSING, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 77, no. 1, 1 September 2005 (2005-09-01), pages 46-52, XP027606053, ISSN: 0301-7516 [retrieved on 2005-09-01]
- H. LI ET AL: "Synergetic Role of Polymer Flocculant in Low-Temperature Bitumen Extraction and Tailings Treatment", ENERGY & FUELS, vol. 19, no. 3, 1 May 2005 (2005-05-01), pages 936-943, XP055131329, ISSN: 0887-0624, DOI: 10.1021/ef049744e
- OWEN, A. T. ET AL.: 'Using turbulent pipe flow to study the factors affecting polymer-bridging flocculation of mineral systems' INTERNATIONAL JOURNAL OF MINERAL PROCESSING vol. 87, no. 3-4, 02 July 2008, pages 90 - 99, XP022685166
- OWEN A T ET AL: "Using turbulent pipe flow to study the factors affecting polymer-bridging flocculation of mineral systems", INTERNATIONAL JOURNAL OF MINERAL PROCESSING, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 87, no. 3-4, 2 July 2008 (2008-07-02) , pages 90-99, XP022685166, ISSN: 0301-7516, DOI: 10.1016/J.MINPRO.2008.02.004 [retrieved on 2008-02-29]