



(11) **EP 3 897 994 B8**

(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:  
**08.11.2023 Bulletin 2023/45**

(45) Date of publication and mention  
of the grant of the patent:  
**04.10.2023 Bulletin 2023/40**

(21) Application number: **18943580.3**

(22) Date of filing: **18.12.2018**

(51) International Patent Classification (IPC):  
**B03D 1/02** (2006.01) **B03D 1/14** (2006.01)  
**B03B 7/00** (2006.01) **C02F 1/24** (2023.01)  
**C22B 3/20** (2006.01) **C22B 11/00** (2006.01)  
**C22B 26/12** (2006.01) **B03D 103/02** (2006.01)  
**C02F 103/16** (2006.01) **B03D 1/08** (2006.01)  
**B03D 1/001** (2006.01) **C02F 1/00** (2023.01)  
**C02F 9/00** (2023.01) **C02F 1/52** (2023.01)  
**C02F 11/14** (2019.01) **C02F 11/121** (2019.01)  
**C02F 101/10** (2006.01) **C02F 103/10** (2006.01)

(52) Cooperative Patent Classification (CPC):  
**B03D 1/028; B03D 1/001; B03D 1/02; B03D 1/08;**  
**B03D 1/1431; C02F 9/00; C22B 3/20; C22B 11/04;**  
**C22B 26/12; B03B 7/00; B03D 2201/002;**  
**B03D 2203/008; B03D 2203/02; C02F 1/004;**  
**C02F 1/24;** (Cont.)

(86) International application number:  
**PCT/FI2018/050943**

(87) International publication number:  
**WO 2020/128137 (25.06.2020 Gazette 2020/26)**

(54) **METHOD AND ARRANGEMENT FOR PROCESS WATER TREATMENT**

VERFAHREN UND ANORDNUNG ZUR PROZESSWASSERBEHANDLUNG

PROCÉDÉ ET AGENCEMENT POUR UN TRAITEMENT D'EAU DE TRAITEMENT

(84) Designated Contracting States:  
**AL 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 RS SE SI SK SM TR**

(43) Date of publication of application:  
**27.10.2021 Bulletin 2021/43**

(73) Proprietor: **Metso Finland Oy**  
**02230 Espoo (FI)**

(72) Inventor: **JANSSON, Kaj**  
**33250 Tampere (FI)**

(74) Representative: **Papula Oy**  
**P.O. Box 981**  
**00101 Helsinki (FI)**

(56) References cited:  
**WO-A1-03/045567 WO-A1-2016/170437**  
**US-A- 2 144 254 US-A- 3 622 087**  
**US-A- 3 782 539 US-A- 5 837 210**  
**US-A1- 2006 226 051 US-A1- 2017 106 378**

- **Azevedo A; Oliveira H A; Rubio J: "Treatment and water reuse of lead-zinc sulphide ore mill wastewaters by high rate dissolved air flotation", Minerals Engineering, vol. 127, 4 August 2018 (2018-08-04), pages 114-121, XP085457064, OXFORD, GB ISSN: 0892-6875, DOI: 10.1016/j.mineng.2018.07.011**

**EP 3 897 994 B8**

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

- Tian Jia; Xu Longhua; Wu Houqin; Fang Shuai; Deng Wei; Peng Tiefeng; Sun Wei; Hu Yuehua: "A novel approach for flotation recovery of spodumene, mica and feldspar from a lithium pergamite ore", *Journal of Cleaner Production*, vol. 174, 31 October 2017 (2017-10-31), pages 625-633, XP085313486, ISSN: 0959-6526, DOI: 10.1016/j.jclepro.2017.10.331
  - Li Si; Lu Dongfang; Chen Xinghua; Zheng Xiayu; Li Xudong; Chu Haoran; Wang Yuhua: "Industrial application of a modified pilot-scale Jameson cell for the flotation of spodumene ore in high altitude area", *Power Technology - Electrostatic Phenomena in Particulate Processes*, vol. 320, 25 July 2017 (2017-07-25), pages 358-361, XP085169083, ISSN: 0032-5910, DOI: 10.1016/j.powtec.2017.07.070
  - ANDREY, K. ET: "Substantiation of the technological processes for effective extraction of PGM from dunites, Urals platinum belt", *IMPC 2014 - 27th International Mineral Processing Congress, 31 October 2014 (2014-10-31)*, pages 1-9, XP055721520, Russia
- (52) Cooperative Patent Classification (CPC): (Cont.)  
C02F 1/52; C02F 11/121; C02F 11/14;  
C02F 2101/10; C02F 2103/10; C02F 2301/08;  
C02F 2303/04; Y02P 10/20