



(51) International Patent Classification:

C02F 1/52 (2006.01) **C01F 11/18** (2006.01)
C02F 1/66 (2006.01) **C02F 1/44** (2006.01)
C02F 1/68 (2006.01) **C02F 103/08** (2006.01)
C01F 5/24 (2006.01)

(21) International Application Number:

PCT/EP2013/051881

(22) International Filing Date:

31 January 2013 (31.01.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

12153905.0 3 February 2012 (03.02.2012) EP
 61/597,196 10 February 2012 (10.02.2012) US

(71) Applicant: **OMYA DEVELOPMENT AG** [CH/CH];
Baslerstrasse 42, CH-4665 Oftringen (CH).(72) Inventors: **BURI, Matthias**; Mätteliweg 20, CH-4852 Rothrist (CH). **RENTSCH, Samuel**; Burgpark 2, CH-4663 Aarburg (CH). **GANE, Patrick, A., C.**; Studenweg 8, CH-4852 Rothrist (CH). **BLUM, René, Vinzenz**; Sagiacher 3, CH-4915 St. Urban (CH). **POFFET, Martine**; Wohlenstrasse 29, CH-3043 Uettiligen (CH).(74) Agent: **GLAS, Holger**; Maiwald Patentanwalts GmbH, Elisenhof, Elisenstraße 3, 80335 München (DE).

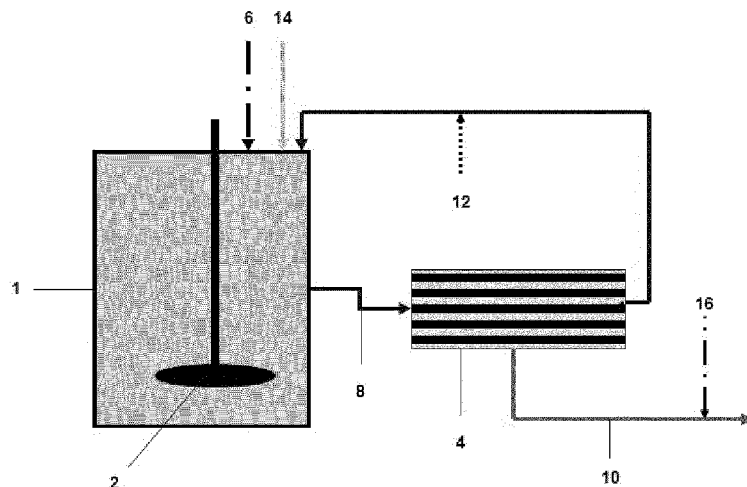
(81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) **Title:** PROCESS FOR THE PREPARATION OF AN AQUEOUS SOLUTION COMPRISING AT LEAST ONE EARTH ALKALI HYDROGEN CARBONATE AND ITS USE

Fig. 1

(57) **Abstract:** The present invention refers to a process for the preparation of an aqueous solution comprising at least one earth alkali hydrogen carbonate and its uses. The process is carried out in a reactor system that comprises a tank (1) equipped with a stirrer (2) and at least one filtering device (4).