



(51) International Patent Classification:

C02F 1/66 (2006.01) C02F 1/24 (2006.01)

(21) International Application Number:

PCT/EP2021/069923

(22) International Filing Date:

16 July 2021 (16.07.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

20187160.5 22 July 2020 (22.07.2020) EP

(71) Applicant (for all designated States except DE, US): **F. HOFFMANN-LA ROCHE AG** [CH/CH]; Grenzacherstrasse 124, 4070 Basel (CH).

(71) Applicant (for DE only): **ROCHE DIAGNOSTICS GMBH** [DE/DE]; Sandhofer Straße 116, 68305 Mannheim (DE).

(71) Applicant (for US only): **ROCHE DIAGNOSTICS OPERATIONS, INC.** [US/US]; 9155 Hague Road, Indianapolis, Indiana 46250 (US).

(72) Inventors: **HAGEDORN, Kay**; c/o Roche Diagnostics GmbH Nonnenwald 2, 82377 Penzberg (DE). **HEINDL, Dieter**; c/o Roche Diagnostics GmbH Nonnenwald 2,

82377 Penzberg (DE). **KESSLER, Dirk**; c/o Roche Diagnostics GmbH Nonnenwald 2, 82377 Penzberg (DE). **PAUL, Hubert**; c/o Roche Diagnostics GmbH, Nonnenwald 2, 82377 Penzberg (DE). **REMPT, Martin**; c/o Roche Diagnostics GmbH Nonnenwald 2, 82377 Penzberg (DE). **ZAHN, Hans**; c/o Roche Diagnostics GmbH Nonnenwald 2, 82377 Penzberg (DE).

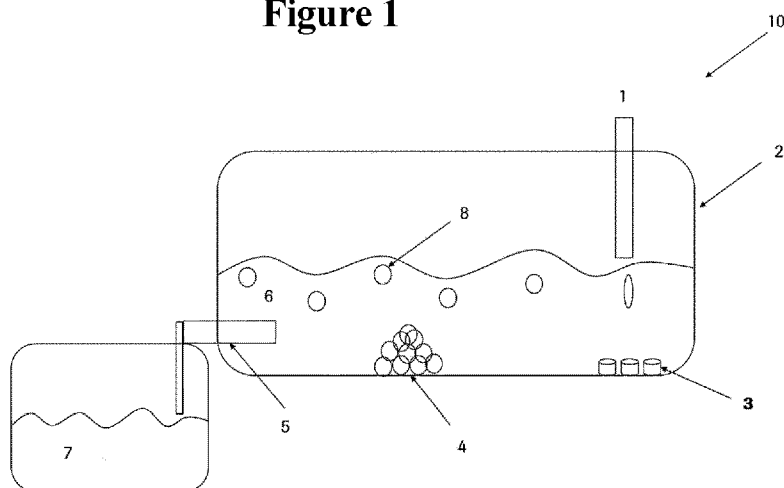
(74) Agent: **EPPING, Claudia**; Nonnenwald 2, 82377 Penzberg (DE).

(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, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, 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, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,

(54) Title: METHOD FOR TREATING A LIQUID SAMPLE COMPRISING A DIAGNOSTIC ASSAY REAGENT AFTER USE

Figure 1



(57) Abstract: The present invention relates to a method for treating a liquid sample comprising at least one diagnostic assay reagent after use. The present invention further relates to a tablet, a purified liquid sample, a diagnostic assay reagent, a waste water treatment system, a kit and uses thereof for treating the said liquid sample.



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,  
KM, ML, MR, NE, SN, TD, TG).

**Declarations under Rule 4.17:**

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

**Published:**

- *with international search report (Art. 21(3))*

**(88) Date of publication of the international search report:**

24 February 2022 (24.02.2022)

INTERNATIONAL SEARCH REPORT

International application No  
PCT/EP2021/069923

A. CLASSIFICATION OF SUBJECT MATTER  
INV. C02F1/66 C02F1/24  
ADD.  
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)  
C02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>Anonymous: "Safety data sheet according to 1907/2006/EC, Article 31 SECTION 1: Identification of the substance/mixture and of the company/ undertaking",</p> <p>3 July 2017 (2017-07-03), pages 1-8, XP055754686, Retrieved from the Internet: URL:https://kingdomcoffee.co.uk/pub/media/productattach/c/o/coshh_sheet_-_jura_descaling_tablet_1.pdf [retrieved on 2020-11-27] section 3 and 7 dated 03-07-2017 ("revision"-date, on top right corner) Retrieved Google: Jura descaling factsheet ----- -/--</p>	8-13,15

Further documents are listed in the continuation of Box C.

See patent family annex.

\* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search  8 September 2021	Date of mailing of the international search report  17/09/2021
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer  Mulder, Lonneke

## INTERNATIONAL SEARCH REPORT

International application No  
PCT/EP2021/069923

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2008/151991 A1 (OMYA DEVELOPMENT AG [CH]; GANE PATRICK A C [CH] ET AL.) 18 December 2008 (2008-12-18) abstract; claims 1,2,7,8,11 page 6, line 6 - line 13 page 24, line 4 - line 7 -----	1-15
X	WO 2019/219106 A1 (ZAHNEN TECHNIK GMBH [DE]) 21 November 2019 (2019-11-21) abstract; claims 1,7 page 1 last full paragraph -----	1-15
X	WO 2019/215218 A1 (ABCR GMBH [DE]) 14 November 2019 (2019-11-14) abstract; claims 1,15,16 page 48 -----	1-15
X	HERBERT ADRIAN FRANK ET AL: "A new approach for the agglomeration and subsequent removal of polyethylene, polypropylene, and mixtures of both from freshwater systems - a case study", ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, ECOMED, LANDSBERG, DE, vol. 25, no. 15, 19 April 2018 (2018-04-19), pages 15226-15234, XP036514822, ISSN: 0944-1344, DOI: 10.1007/S11356-018-1981-7 [retrieved on 2018-04-19] abstract -----	1-15

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2021/069923

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2008151991	A1	18-12-2008	AR 066957 A1 23-09-2009
			AT 426577 T 15-04-2009
			AU 2008264004 A1 18-12-2008
			BR PI0812717 A2 23-12-2014
			CA 2690866 A1 18-12-2008
			CL 2008001731 A1 06-03-2009
			CN 101679077 A 24-03-2010
			CO 6241147 A2 20-01-2011
			DK 2011766 T3 29-06-2009
			EP 2011766 A1 07-01-2009
			ES 2324739 T3 13-08-2009
			HK 1128278 A1 23-10-2009
			HR P20090342 T1 31-07-2009
			JP 5405454 B2 05-02-2014
			JP 2010529904 A 02-09-2010
			KR 20100044783 A 30-04-2010
			NO 342974 B1 17-09-2018
			PE 20090472 A1 13-05-2009
			PL 2011766 T3 31-08-2009
			PT 2011766 E 25-06-2009
			RU 2010101105 A 20-07-2011
			SI 2011766 T1 31-08-2009
			UA 98963 C2 10-07-2012
			US 2010133195 A1 03-06-2010
			UY 31150 A1 30-01-2009
			WO 2008151991 A1 18-12-2008
-----			
WO 2019219106	A1	21-11-2019	NONE
-----			
WO 2019215218	A1	14-11-2019	DE 102018003805 A1 14-11-2019
			WO 2019215218 A1 14-11-2019
-----			