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(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.

(54) Title: APPARATUS AND METHOD FOR TREATING SOLIDS AND LIQUIDS

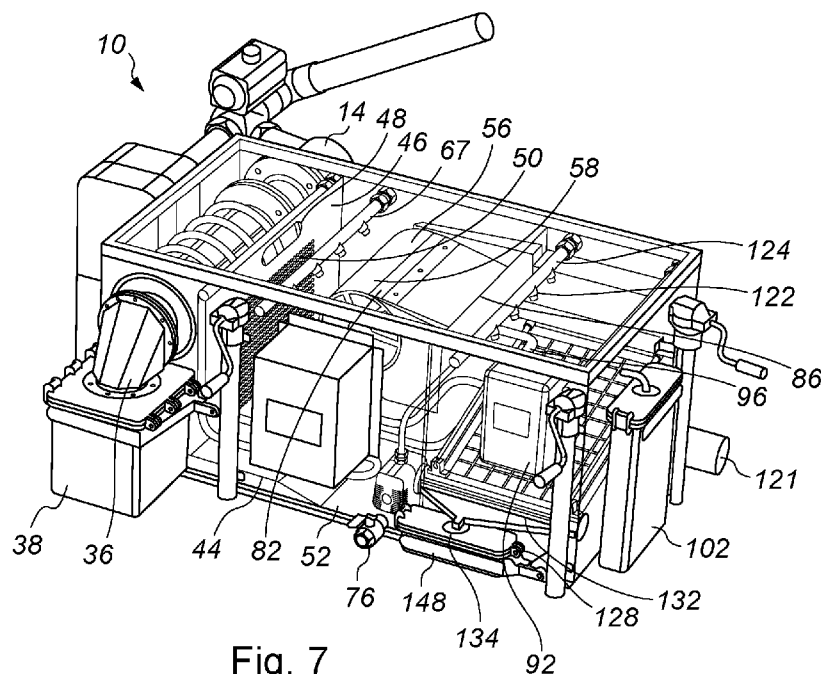


Fig. 7

(57) Abstract: The present disclosure relates to water purifiers, remediators and waste collection apparatus, especially those used in a food waste environment, such as water run-off from food preparation areas and facilities. The present disclosure Water treatment apparatus comprising a fluid inlet, a compressor provided within a compressor chamber, a skim chamber provided adjacent the compressor chamber, a skimmer provided within the skim chamber, one or more fluid conduits to enable fluid to pass from the compressor chamber to the skim chamber, and a micro-solids capture assembly. The compressor is an auger-type compressor.



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INTERNATIONAL SEARCH REPORT

International application No

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A. CLASSIFICATION OF SUBJECT MATTER

INV. C02F1/40 B30B9/12 B01D33/06
ADD. C02F101/32 C02F103/32 C02F11/125 C02F11/126 C02F11/18
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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 B30B B01D

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	WO 2013/083330 A1 (O'NEILL JAMES [GB]) 13 June 2013 (2013-06-13)	1-25, 65
Y	abstract; figures 3-5 pages 4 line 25 to page 6 line 41 This document is cited to support arguments relating to non-compliance with the requirement of unity of invention ----- -/--	20, 21

☒ 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

14 October 2021

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INTERNATIONAL SEARCH REPORT

International application No

PCT/GB2021/051776

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 95/07744 A1 (ABEL GUENTHER [CA]) 23 March 1995 (1995-03-23) WO9507744; abstract; figures 2, 4, 5, 28 page 28 - page 29 page 2 - paragraph 4 page 4 - paragraph 3 page 15 - paragraph 5 page 16 page 29, paragraph 4 - paragraph 6 page 18, paragraph 2 This document is cited to support arguments relating to non-compliance with the requirement of unity of invention -----	1-25, 65
X	GB 2 543 369 A (ENV PRODUCTS & SERVICES LTD [GB]) 19 April 2017 (2017-04-19) abstract; figures 2, 6, 7 page 16, last paragraph - page 17, line 17 page 8, last line - page 10, line 22 This document is cited to support arguments relating to non-compliance with the requirement of unity of invention -----	1-25, 65
X	WO 92/04094 A2 (ABEL GUENTHER [CA]) 19 March 1992 (1992-03-19) abstract; claims 1, 8 paragraph [0001] This document is cited to support arguments relating to non-compliance with the requirement of unity of invention -----	1, 65
X	US 6 110 388 A (NORAIS MARCEL [FR] ET AL) 29 August 2000 (2000-08-29) abstract; claims 1, 5; figures 1-4 This document is cited to support arguments relating to non-compliance with the requirement of unity of invention -----	1, 65
Y	WO 2020/028968 A1 (ROCKWELL DAVID [CA]) 13 February 2020 (2020-02-13) abstract; figure 1 title -----	20, 21

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB2021/051776

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-25 (completely) ; 65 (partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-25(completely); 65(partially)

tools and methods for water purification and waste collection, in particular suitable for waste containing FOGs using a a system having a compressor, a skimmer and a micro-solids capture assembly, and further comprising specific compressor features.

2. claims: 26-43(completely); 65(partially)

tools and methods for water purification and waste collection, in particular suitable for waste containing FOGs using a a system having a compressor, a skimmer and a micro-solids capture assembly, and further comprising specific skimmer features.

3. claims: 44-64(completely); 65(partially)

tools and methods for water purification and waste collection, in particular suitable for waste containing FOGs using a a system having a compressor, a skimmer and a micro-solids capture assembly, and further comprising specific features relating to the micro-solids capture assembly.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/GB2021/051776

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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