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(54) Title: PROCESS FOR INDUSTRIAL PRODUCTION OF SEA WATER BASICALLY SUITABLE FOR FOOD USE

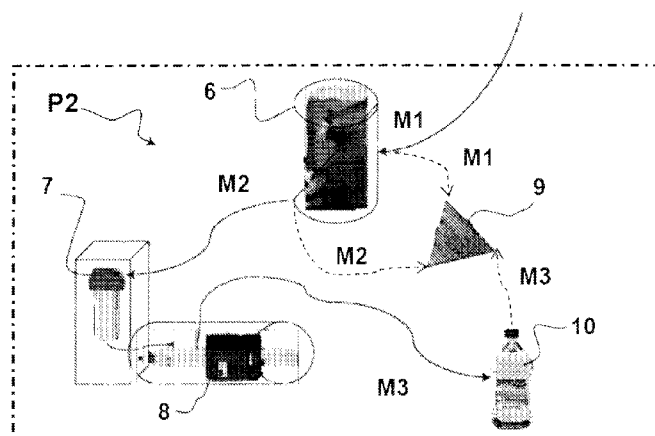


Fig. 2

(57) Abstract: A process for the industrial production of sea water (M3) that is basically suitable for alimentary use, comprising the following steps: drawing of sea water (M) with corresponding decantation (3); filtration (4); and sterilisation (5), until a purified sea water (M1) is obtained; said process being characterized in that it envisages the further steps of: boron abatement (6) until a sea water is obtained with a boron content of less than one milligram per litre (M2); further filtration (7); sterilisation (8) of the possible residual micro-organisms; continuous and strict analyses, examinations, and checks (9) of the sea water (M1, M2, M3) in the respective various steps of purification thereof, to guarantee that a sea water (M3) is obtained that is microbiologically pure, filtered, and hence free from any pathogenic agents; and storage in tanks or bottling (10) of the sea water (M3) ready for being used in various applications, amongst which basically alimentary use.

## INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

INV. C02F9/00

ADD. C02F101/10 C02F1/44 C02F1/42 C02F1/32 C02F103/08

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 A22C

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, BIOSIS, INSPEC, COMPENDEX

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                                | Relevant to claim No. |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Y         | JP 2010 058080 A (SUMITOMO ELECTRIC INDUSTRIES) 18 March 2010 (2010-03-18) paragraph [0025]; figure 2<br>-----                                                                                                                    | 1-9                   |
| Y         | DATABASE WPI<br>Week 201240<br>Thomson Scientific, London, GB;<br>AN 2012-F20288<br>XP002722151,<br>-& CN 202 201 774 U (SOA TIANJIN INST SEAWATER DESALINATION&)<br>25 April 2012 (2012-04-25)<br>abstract; figures 1,2<br>----- | 1-9                   |
| Y         | DE 10 2007 040763 A1 (LANXESS DEUTSCHLAND GMBH [DE]) 5 March 2009 (2009-03-05) paragraphs [0001], [0003], [0004], [0005], [0012] - [0014]; claim 1<br>-----<br>-/-                                                                | 1-9                   |



Further documents are listed in the continuation of Box C.



See patent family annex.

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Name and mailing address of the ISA/

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| C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Category*                                            | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                                                                                                                                                                                                                                                     | Relevant to claim No. |
| A                                                    | <p>Ronald Lee ET AL: "Bivalve depuration:<br/>fundamental and practical aspects",<br/><br/>31 December 2008 (2008-12-31),<br/>XP055109318,<br/>Rome, Italy<br/>ISBN: 978-9-25-106006-3<br/>Retrieved from the Internet:<br/>URL:ftp://ftp.fao.org/docrep/fao/011/i0201<br/>e/i0201e.pdf<br/>[retrieved on 2014-03-21]<br/>page 20, paragraph 4.2<br/>page 28, paragraph 5.4<br/>page 29; figure 5.8<br/>Chapter 6;<br/>page 33 - page 37<br/>-----</p> | 2                     |

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IT2014/000176

| Patent document<br>cited in search report |    | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|-------------------------------------------|----|---------------------|----------------------------|---------------------|
| JP 2010058080                             | A  | 18-03-2010          | NONE                       |                     |
| CN 202201774                              | U  | 25-04-2012          | NONE                       |                     |
| DE 102007040763                           | A1 | 05-03-2009          | NONE                       |                     |