



Published:

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

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

27 February 2014

INTERNATIONAL SEARCH REPORT

International application No
PCT/GB2013/000266

A. CLASSIFICATION OF SUBJECT MATTER
INV. F04D29/057 B01D45/12 F04D29/063 F04D25/08
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)
F04D 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	JP 2000 227098 A (MATSUSHITA ELECTRIC IND CO LTD) 15 August 2000 (2000-08-15) abstract figures 1-4	1-18,38, 39
X	----- WO 97/40915 A2 (GLUSIC [SI]; POTRC IZTOK [SI]) 6 November 1997 (1997-11-06) the whole document figure 2	1-18,38, 39
X	----- EP 0 298 442 A2 (AHLSTROEM OY [FI]) 11 January 1989 (1989-01-11) the whole document figure 1 -----	1-18,38, 39

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 15 October 2013	Date of mailing of the international search report 03/01/2014
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 Ingelbrecht, Peter

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/GB2013/000266

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2000227098 A	15-08-2000	JP 4419204 B2	24-02-2010
		JP 2000227098 A	15-08-2000
WO 9740915 A2	06-11-1997	AU 3053897 A	19-11-1997
		SI 9600138 A	31-10-1997
		WO 9740915 A2	06-11-1997
EP 0298442 A2	11-01-1989	DE 3869679 D1	07-05-1992
		EP 0298442 A2	11-01-1989
		ES 2031182 T3	01-12-1992
		FI 872967 A	07-01-1989
		JP H01159494 A	22-06-1989
		US 4921400 A	01-05-1990

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB2013/000266

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.:

1-18, 38, 39

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: 1-18, 38, 39

Apparatus for handling fluid comprising a separation device in the interface between impeller and housing

2. claims: 19-26

An apparatus for handling fluid having a pressure field resulting in part of the fluid flowing in a direction opposite the main flow

3. claims: 27-29

An apparatus for handling fluid having an impeller with two impelling formations creating opposing pressure fields

4. claims: 30-37

An apparatus for handling fluid having means for generating a centrifugal field in an inlet portion of its flow path
