

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2017/095957

A. CLASSIFICATION OF SUBJECT MATTER

C02F 1/44 (2006.01) i; B01D 61/08 (2006.01) i; B01D 61/06 (2006.01) i; C02F 103/08 (2006.01) i
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/-; 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)

CNTXT; CNABS; SIPOABS; DWPI; CJFD; DUXIU: 海水, 淡化, 液压, 缸, 水缸, 活塞, 压力, 固定, sea, desalination, desalt, water, hydraulic, pressure, jar, plunger, energy, recovery, fastness

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CN 105800734 A (GU, Ming) 27 July 2016 (27.07.2016), description, paragraphs [0007]-[0013]	1-3
A	CN 101581328 A (WANG, Shichang) 18 November 2009 (18.11.2009), description, specific embodiment	1-3
A	CN 101782095 A (THE INSTITUTE OF SEAWATER DESALINATION AND MULTIPURPOSE UTILIZATION, SOA(TIANJIN)) 21 July 2010 (21.07.2010), description, paragraphs [0055]-[0075]	1-3
A	CN 104759207 A (QINHUANGDAO YONGCHUNJIE SEAWATER DESALINATION TECHNOLOGY ENGINEERING CO., LTD.) 08 July 2015 (08.07.2015), description, paragraphs [0009]-[0011]	1-3
A	US 4637783 A (SRI INTERNATIONAL) 20 January 1987 (20.01.1987), description, column 1, line 60 to column 2, line 31	1-3

Further documents are listed in the continuation of Box C.

See patent family annex.

<p>* Special categories of cited documents:</p> <p>“A” document defining the general state of the art which is not considered to be of particular relevance</p> <p>“E” earlier application or patent but published on or after the international filing date</p> <p>“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)</p> <p>“O” document referring to an oral disclosure, use, exhibition or other means</p> <p>“P” document published prior to the international filing date but later than the priority date claimed</p>	<p>“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</p> <p>“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</p> <p>“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</p> <p>“&”document member of the same patent family</p>
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Date of the actual completion of the international search 28 March 2018	Date of mailing of the international search report 18 April 2018
Name and mailing address of the ISA State Intellectual Property Office of the P. R. China No. 6, Xitucheng Road, Jimenqiao Haidian District, Beijing 100088, China Facsimile No. (86-10) 62019451	Authorized officer LIU, Peng Telephone No. (86-10) 53962853

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International application No.
PCT/CN2017/095957

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2004043576 A1 (FREPOWER LTD.) 27 May 2004 (27.05.2004), description, page 11, line 25 to page 18, line 5	1-3

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CN2017/095957

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN 105800734 A	27 July 2016	None	
CN 101581328 A	18 November 2009	None	
CN 101782095 A	21 July 2010	CN 101782095 B	23 May 2012
CN 104759207 A	08 July 2015	None	
US 4637783 A	20 January 1987	JP H049575 B2	20 February 1992
		EG 15082 A	31 December 1985
		FR 2492470 A1	23 April 1982
		IE 812318 L	20 April 1982
		DE 3141033 A1	09 June 1982
		IT 8149509 D0	19 October 1981
		JP S5794306 A	11 June 1982
		GB 2088968 B	18 July 1984
		IT 1142902 B	15 October 1986
		AU 548580 B2	19 December 1985
		FR 2492470 B1	08 January 1988
		GB 2088968 A	16 June 1982
		IE 52001 B1	13 May 1987
		CA 1164308 A	27 March 1984
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		EP 1562693 B1	18 June 2008
		DE 60321710 D1	31 July 2008
		EP 1562693 A1	17 August 2005
		AU 2003292369 A1	03 June 2004
		AT 398484 T	15 July 2008