

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2019/106444

A. CLASSIFICATION OF SUBJECT MATTER		
C01B 21/38(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)		
C01B 21/-		
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)		
中国期刊全文数据库, China Academic Journals Full-Text Database; 万方学术数据库, Wanfang Science Periodical Database; ISI web of science; 万方学位论文, Wanfang Dissertations; CNABS; DWPI; CNTXT; WOTXT: 中冶南方工程技术有限公司, 赵金标, 王军, 丁煜, 高俊峰, 吴宗应, 不锈钢, 混酸废液, 再生酸设备, 预浓缩置换装置, stainless steel, mixed acid waste liquid, regenerating acid device, preconcentration displacement device		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	CN 109467065 A (WISDRI ENGINEERING & RESEARCH INCORPORATION LIMITED) 15 March 2019 (2019-03-15) claims 1-10	1-10
PX	CN 209338121 U (WISDRI ENGINEERING & RESEARCH INCORPORATION LIMITED) 03 September 2019 (2019-09-03) claims 1-10	1-10
PX	CN 109553152 A (WISDRI ENGINEERING & RESEARCH INCORPORATION LIMITED) 02 April 2019 (2019-04-02) embodiments 1-7	1-10
Y	CN 207713438 U (ANSHAN INNOVATION WASTE ACID DIVIDE SILICON REGENERATION ENGINEERING CO., LTD. et al.) 10 August 2018 (2018-08-10) claim 1, and description, figures 1-3	1-10
Y	CN 104498974 A (HUANG, Jian) 08 April 2015 (2015-04-08) claim 1, and embodiment 1	1-10
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> 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		Date of mailing of the international search report
26 November 2019		18 December 2019
Name and mailing address of the ISA/CN		Authorized officer
China National Intellectual Property Administration No. 6, Xitucheng Road, Jimenqiao Haidian District, Beijing 100088 China		
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PCT/CN2019/106444**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5006325 A (AIR PRODUCTS & CHEMICAL INC.) 09 April 1991 (1991-04-09) entire document	1-10

INTERNATIONAL SEARCH REPORT
Information on patent family members

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Patent document cited in search report	Publication date (day/month/year)	Patent family member(s)	Publication date (day/month/year)
CN 109467065 A	15 March 2019	None	
CN 209338121 U	03 September 2019	None	
CN 109553152 A	02 April 2019	None	
CN 207713438 U	10 August 2018	None	
CN 104498974 A	08 April 2015	CN 104498974 B	07 July 2017
US 5006325 A	09 April 1991	PT 95122 A	18 April 1991
		DE 69014482 D1	12 January 1995
		KR 910004465 A	28 March 1991
		PT 95122 B	28 May 1997
		KR 920004182 B1	30 May 1992
		EP 0415354 B1	30 November 1994
		EP 0415354 A3	02 January 1992
		DE 69014482 T2	20 April 1995
		BR 9004157 A	12 November 1991
		JP H03103316 A	30 April 1991
		EP 0415354 A2	06 March 1991
		JP H0641368 B2	01 June 1994
		AR 242759 A1	31 May 1993