

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CN2018/084281

## A. CLASSIFICATION OF SUBJECT MATTER

A01G 31/00 (2018.01) 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)

A01G

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)

CNABS; CNKI; VEN: 尾矿, 砂, 矿渣, 白泥, 造孔剂, 石墨, 减水剂, 蛭石, 增塑剂, 水, 碳粉, 陶瓷, 淀粉, 纤维, 氨基磺酸, 脂肪酸, 珍珠岩, 膨润土, 煤, 高岭土, 三聚氰胺, 球土, 黑泥, 炭粉, mine, tailing, ore, sand, slag, mud, white, slimes, pore, forming, agent, graphite, water, reducing, vermiculite, elasticizer, plasticizer, carbon, powder, ceramics, starch, fibres, sulfamic, acid, fatty, perlite, bentonite, coal, kaolin, melamine, clay, black, blackening

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	CN 107484647 A (GUANGDONG QINGDA TONGKE ENVIRONMENTAL PROTECTION TECHNOLOGY CO., LTD. et al.) 19 December 2017 (19.12.2017), description, paragraphs [0007]-[0029]	1-11
X	CN 106587684 A (TSINGHUA INNOVATION CENTER IN DONGGUAN) 26 April 2017 (26.04.2017), description, paragraphs [0009]-[0020]	1-11
A	CN 106986711 A (HEFEI SHENWO GARDENING CO., LTD.) 28 July 2017 (28.07.2017), entire document	1-11
A	CN 103168638 A (BEIJING RECHSAND SCIENCE & TECHNOLOGY GROUP CO., LTD.) 26 June 2013 (26.06.2013), entire document	1-11

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>“&amp;” document member of the same patent family</p>
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Date of the actual completion of the international search  
21 June 2018

Date of mailing of the international search report  
24 July 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  
WU, Fan  
Telephone No. (86-10) 62085338

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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	CN 106587931 A (TSINGHUA INNOVATION CENTER IN DONGGUAN) 26 April 2017 (26.04.2017), entire document	1-11
A	CN 104945003 A (TSINGHUA INNOVATION CENTER IN DONGGUAN) 30 September 2015 (30.09.2015), entire document	1-11
A	EP 2006259 A2 (OWENS CORNING INTELLECTUAL CAP) 24 December 2008 (24.12.2008), entire document	1-11

**INTERNATIONAL SEARCH REPORT**  
**Information on patent family members**

International application No.  
PCT/CN2018/084281

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN 107484647 A	19 December 2017	None	
CN 106587684 A	26 April 2017	None	
CN 106986711 A	28 July 2017	None	
CN 103168638 A	26 June 2013	CN 103168638 B	08 June 2016
CN 106587931 A	26 April 2017	None	
CN 104945003 A	30 September 2015	None	
EP 2006259 A2	24 December 2008	EP 2006259 A3	07 January 2009
		US 2009019800 A1	22 January 2009
		US 7976963 B2	12 July 2011