

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CN2017/074685

## A. CLASSIFICATION OF SUBJECT MATTER

E01D 19/16 (2006.01) i; E01D 4/00 (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)

E01D

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)

EPODOC, WPI, CNPAT, CNKI: 柔性, 球铰, 连接, 锚, 转, 钢绞线, 缆索, 拱, 预埋, flexible, spherical hinge, connect+, anchor+, rotat+, steel strand, cable, arch, pre-cast

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CN 2595863 Y (LIUZHOU HAIWEIMU BUILDING MACHINERY CO., LTD.), 31 December 2003 (31.12.2003), claims 1-4, description, particular embodiments, and figure 1	1-10
A	CN 2594301 Y (LIUZHOU HAIWEIMU BUILDING MACHINERY CO., LTD.), 24 December 2003 (24.12.2003), entire document	1-10
A	FR 2739112 A1 (FREYSSINET INT STUP), 28 March 1997 (28.03.1997), entire document	1-10

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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07 August 2017

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

International application No.  
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Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN 2595863 Y	31 December 2003	None	
CN 2594301 Y	24 December 2003	None	
FR 2739112 A1	28 March 1997	FR 2739112 B1	02 January 1998