

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2019/087472

A. CLASSIFICATION OF SUBJECT MATTER

F03D 9/25(2016.01)i; F03D 3/04(2006.01)i; F03D 3/06(2006.01)i; F03D 15/00(2016.01)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)

F03D

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)

CNPAT, EPODOC, WPI, CNKI: 风, 发电机, 聚, 集, 同心, 同轴, 环, 罩, 套, 管, 内, 外, wind, generator, collect +, gather+, coaxial, ring, sleeve, inner, outer

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	CN 209875381 U (WANG, Weibi) 31 December 2019 (2019-12-31) claims 1-10	1-10
E	CN 209324578 U (NANYANG EXPLOSION PROTECTION WEITE MOTOR CO., LTD.) 30 August 2019 (2019-08-30) description, paragraphs [0026]-[0032], and figures 1-3	1, 2, 5-10
X	CN 107100798 A (PINGYI COUNTY POWER SUPPLY COMPANY STATE GRID SHANDONG ELECTRIC POWER COMPANY et al.) 29 August 2017 (2017-08-29) description, paragraphs [0031]-[0036], and figures 1-3	1, 2, 5-10
A	CN 106640533 A (CRRC WIND POWER SHANDONG CO., LTD.) 10 May 2017 (2017-05-10) entire document	1-10
A	CN 203321745 U (JIANGSU ZHONGYUN WIND POWER TECHNOLOGY CO., LTD.) 04 December 2013 (2013-12-04) entire document	1-10
A	CN 103835873 A (HUANG, Baowen) 04 June 2014 (2014-06-04) entire document	1-10

 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

07 January 2020

Date of mailing of the international search report

23 January 2020

Name and mailing address of the ISA/CN

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PCT/CN2019/087472**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2019017491 A1 (HONGMAN CO., LTD.) 17 January 2019 (2019-01-17) entire document	1-10

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/CN2019/087472

Patent document cited in search report	Publication date (day/month/year)	Patent family member(s)	Publication date (day/month/year)
CN 209875381 U	31 December 2019	None	
CN 209324578 U	30 August 2019	None	
CN 107100798 A	29 August 2017	None	
CN 106640533 A	10 May 2017	EP 3564525 A1	06 November 2019
		WO 2018120073 A1	05 July 2018
CN 203321745 U	04 December 2013	None	
CN 103835873 A	04 June 2014	CN 106089565 A	09 November 2016
		CN 106121934 A	16 November 2016
US 2019017491 A1	17 January 2019	WO 2019011277 A1	17 January 2019
		TW 201908595 A	01 March 2019