

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2019/122131

A. CLASSIFICATION OF SUBJECT MATTER

G01C 21/20(2006.01)i; G01C 21/32(2006.01)i; G01S 19/14(2010.01)i; G01S 19/41(2010.01)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)

G01C, G01S

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, CNTXT, CNKI, DWPI, SIPOABS, VEN, 苏州极目机器人, 测绘, 电子地图, 配对, 点对, 点, 位置, 差分, 校正, 校准, 匹配, 平移, 旋转, 扭曲, 位置误差, 成本, point?, map, match+, calibrat+, adjust+, position, measur+

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	CN 109737963 A (SUZHOU EAVISION ROBOT TECHNOLOGY CO., LTD.) 10 May 2019 (2019-05-10) claims 1-16, description, paragraphs [0001]-[0106], and figures 1-5	1-16
X	CN 1888824 A (SOUTH CHINA AGRICULTURAL UNIVERSITY) 03 January 2007 (2007-01-03) description, page 2, lines 11-22 and page 3, line 25 to page 4, line 2	1-12
Y	CN 1888824 A (SOUTH CHINA AGRICULTURAL UNIVERSITY) 03 January 2007 (2007-01-03) description, page 2, lines 11-22 and page 3, line 25 to page 4, line 2	13-16
Y	CN 106843277 A (SANGAIR TECHNOLOGY CO., LTD.) 13 June 2017 (2017-06-13) entire document	13-16
A	US 2008319657 A1 (MITAC INTERNATIONAL CORPORATION) 25 December 2008 (2008-12-25) entire document	1-16
A	CN 107784633 A (HUANG, Renjie) 09 March 2018 (2018-03-09) entire document	1-16

 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

29 February 2020

Date of mailing of the international search report

05 March 2020

Name and mailing address of the ISA/CN

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C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CN 105890602 A (KONG, Bing) 24 August 2016 (2016-08-24) entire document	1-16
A	CN 101082501 A (SWEDEN WEIFANGDA SOFTWARE TECHNIQUE CO., LTD.) 05 December 2007 (2007-12-05) entire document	1-16

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/CN2019/122131

Patent document cited in search report	Publication date (day/month/year)	Patent family member(s)	Publication date (day/month/year)
CN 109737963 A	10 May 2019	None	
CN 1888824 A	03 January 2007	CN 100561130 C	18 November 2009
CN 106843277 A	13 June 2017	WO 2018188171 A1	18 October 2018
US 2008319657 A1	25 December 2008	DE 102008029093 B4	04 May 2016
		TW I328678 B	11 August 2010
		US 8082094 B2	20 December 2011
		TW 200900655 A	01 January 2009
		DE 102008029093 A1	02 January 2009
CN 107784633 A	09 March 2018	None	
CN 105890602 A	24 August 2016	None	
CN 101082501 A	05 December 2007	CN 101082501 B	09 February 2011