

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CN2017/097693

A. CLASSIFICATION OF SUBJECT MATTER

H03K 3/017 (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)

H03K; H05B

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, VEN: 脉冲宽度, 调制, 调变, 占空, 精度, 精细, 精确, 准确, 缓存, 寄存, 缓冲, 补偿, 控制, 调整, 调节, 修正, 位, 比特, 个数, 数目, 数量, 扩展, 扩充, 增加, 基础, 基准, pulse width, modulation, PWM, duty, buffer, register, precision, accuracy, compensate, control, adjust, modify, bit, number, expansion, reference, increment

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CN 1419742 A (MARCONI COMMUNICATIONS SPA) 21 May 2003 (21.05.2003), description, page 6, line 20 to page 11, line 5, claims 7 and 8, and figure 1	1-20
A	CN 103442482 A (SHENZHEN TITAN MICRO ELECTRONICS CO., LTD.) 11 December 2013 (11.12.2013), entire document	1-20
A	US 2013038360 A1 (RENESAS ELECTRONICS CORPORATION et al.) 14 February 2013 (14.02.2013), entire document	1-20

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>“&” document member of the same patent family</p>
---	---

Date of the actual completion of the international search 26 April 2018	Date of mailing of the international search report 09 May 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 JIANG, Ling Telephone No. (86-10) 62089875

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CN2017/097693

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN 1419742 A	21 May 2003	EP 1269628 B1	10 September 2008
		JP 2003528524 A	24 September 2003
		EP 1978640 A3	22 October 2008
		WO 0171914 A1	27 September 2001
		EP 1978640 A2	08 October 2008
		AU 4257601 A	03 October 2001
		US 6747778 B2	08 June 2004
		EP 1269628 A1	02 January 2003
		US 2003161639 A1	28 August 2003
		DE 60135734 D1	23 October 2008
		CN 100417020 C	03 September 2008
		US 2004156642 A1	12 August 2004
		US 6934458 B2	23 August 2005
		GB 2360601 B	13 February 2002
		GB 2360601 A	26 September 2001
		CN 101311775 B	23 November 2011
		CN 101311775 A	26 November 2008
		GB 2368986 A	15 May 2002
		GB 2368986 B	31 December 2002
		CN 103442482 A	11 December 2013
US 2013038360 A1	14 February 2013	JP 5894493 B2	30 March 2016
		US 2015171837 A1	18 June 2015
		JP 2013053617 A	21 March 2013
		US 9009519 B2	14 April 2015
		US 9385691 B2	05 July 2016