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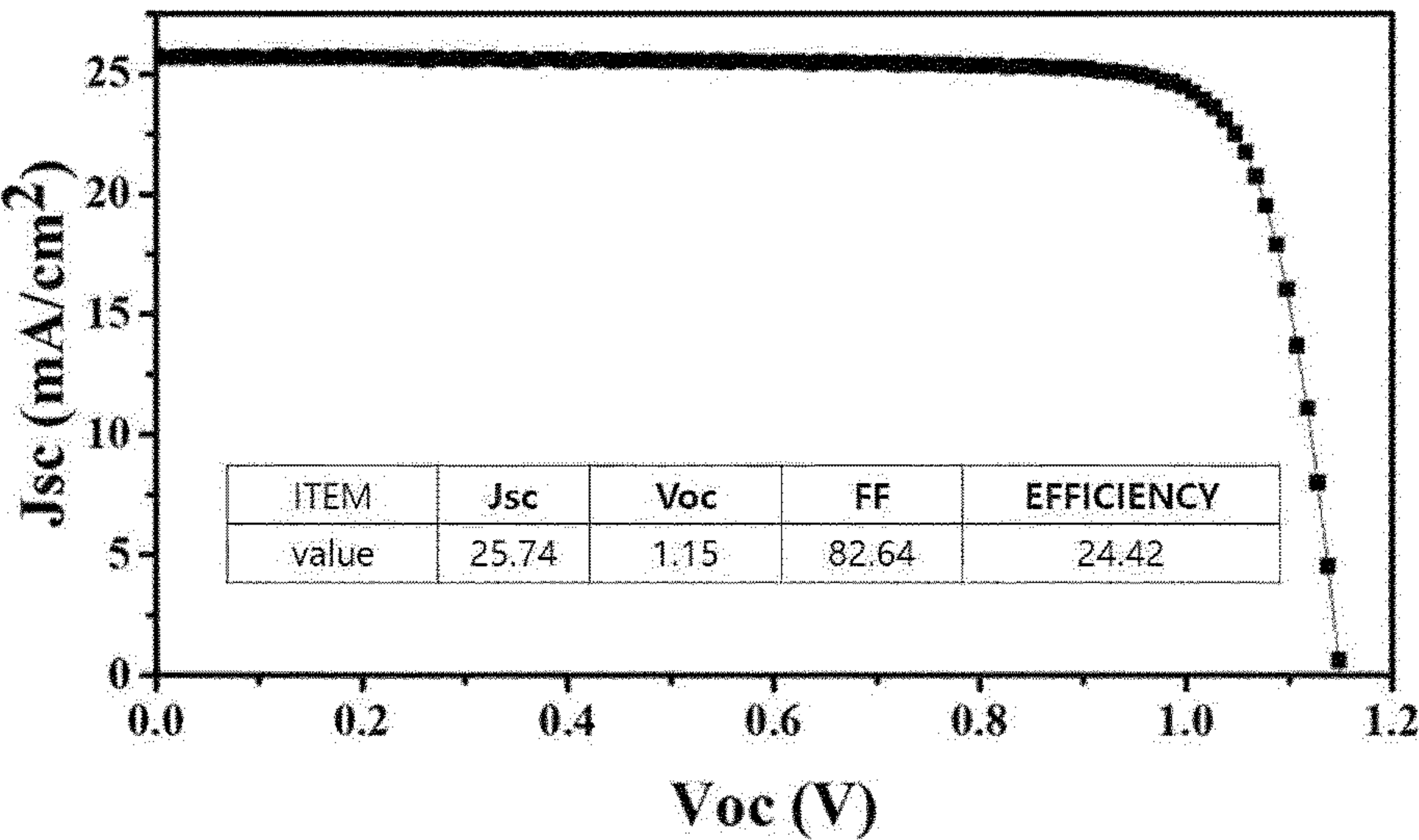
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(54) Title: PEROVSKITE COMPOUND CONTAINING DIVALENT ORGANIC CATION AND DEVICE CONTAINING THE SAME



(57) Abstract: A perovskite compound according to the present invention contains an organic cation, a metal cation, and a non-metal anion, wherein a monovalent amidinium group cation and a divalent organic cation are contained as the organic cation. The perovskite compound according to the present invention has an excellent power conversion efficiency of more than 24% and has significantly improved stability with respect to heat and moisture itself.

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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

C07F 7/24(2006.01)i; H01L 51/00(2006.01)i; H01L 51/42(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)

C07F 7/24(2006.01); C01G 21/00(2006.01); C23C 18/12(2006.01); H01L 31/0216(2006.01); H01L 31/04(2006.01); H01L 31/08(2006.01); H01L 51/00(2006.01); H01L 51/42(2006.01); H01L 51/44(2006.01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models
Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: perovskite, amidinium, ammonium, solar cell, cation, anion

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2015-0340632 A1 (YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM LTD.) 26 November 2015 (2015-11-26) paragraphs [0046]-[0049], [0062], [0085], [0091], [0101], [0188], [0193], [0207], [0210], [0214]; figure 2A	1-18
A	KR 10-2017-0114620 A (KOREA RESEARCH INSTITUTE OF CHEMICAL TECHNOLOGY) 16 October 2017 (2017-10-16) claims 1-7	1-18
A	KR 10-2016-0090845 A (KOREA RESEARCH INSTITUTE OF CHEMICAL TECHNOLOGY) 01 August 2016 (2016-08-01) claims 1-12	1-18
A	KR 10-1941192 B1 (EWhA UNIVERSITY INDUSTRY COLLABORATION FOUNDATION) 22 January 2019 (2019-01-22) the whole document	1-18

☒ 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 “D” document cited by the applicant in the international application “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
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Name and mailing address of the ISA/KR

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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	JP 2019-055916 A (KYOTO UNIV.) 11 April 2019 (2019-04-11) the whole document	1-18

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/KR2020/008717

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