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(54) Title: PHOTOVOLTAIC DEVICES

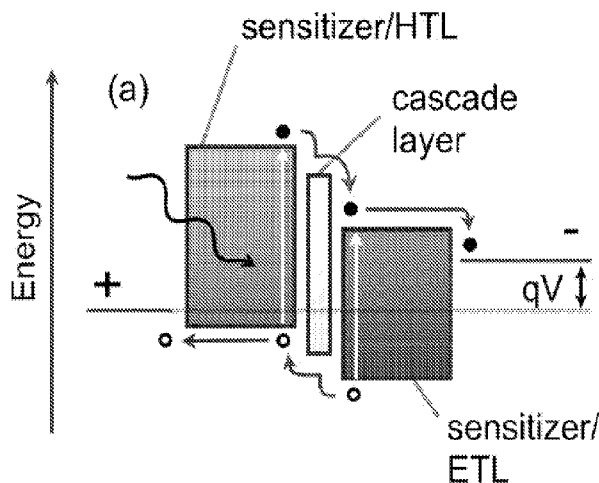


FIG. 3

(57) Abstract: A photovoltaic device includes a heterojunction between different semiconductor materials which are present in charge transporting layers. The charge transporting layer can be a hole or electron transporting layer. The device can include an interstitial layer between two layers of the device.



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A. CLASSIFICATION OF SUBJECT MATTER***H01L 31/042(2006.01)i***

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC : H01L 31

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 since 1975.

Japanese utility models and applications for utility models since 1975.

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

eKOMPASS(KIPO internal)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	JP 2007-115849 A(MATSUSHITA ELECTRIC WORKS LTD.) 10 May 2007 See abstract and fig2.	1,17-19 2-16,20-32
A	JP 2003-234486 A(SEIKO EPSON CORP.) 22 August 2003 See abstract and figs1~2.	1-32
A	JP 2003-234485 A(SEIKO EPSON CORP.) 22 August 2003 See abstract and figs1~2.	1-32
A	JP 2000-285972 A(TOSHIBA CORP.) 13 October 2000 See abstract and fig1.	1-32

 Further documents are listed in the continuation of Box C. See patent family annex.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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JP 2003-234486 A	22.08.2003	None	
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JP 2000-285972 A	13.10.2000	None	