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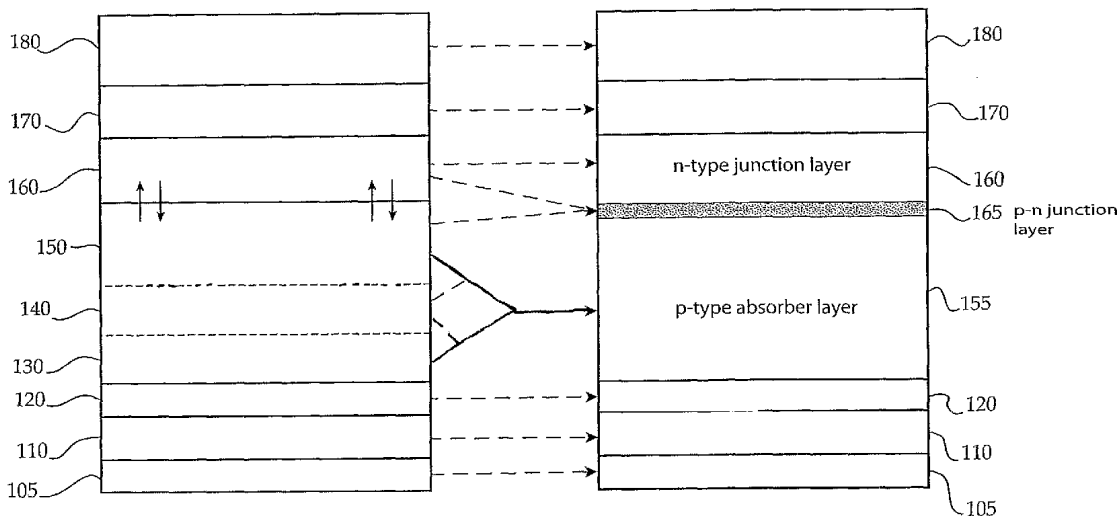
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(54) Title: PROCESS AND PHOTOVOLTAIC DEVICE USING AN AKALI-CONTAINING LAYER



(57) Abstract: This invention describes the product and method of developing a photovoltaic device using an alkali-containing mixed phase semiconductor source layer to enhance cell efficiency and minimize molecular structure defects.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC: H01L 21/00(2006.01),31/00(2006.01)

USPC: 136/252,260,262,264;438/95
 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)
 U.S. : 136/252, 260, 262, 264; 438/95

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5626688 A (Probst et al.) 6 May 1997 (06.05.1997), entire document.	1-3, 5-6, 8-10, 12-13, 15-17, 19-20, 22-24, 26-27, 29-31, 33-34, 36-37, 44-46, 48-49, 51-53, 55-56, 58-60, 62-63, 65-67, 69-70, 72-74, 76-77
X	Watanabe et al. The Influence of Sodium on the Properties of CuInS ₂ Thin Films and Solar Cells, Solar Energy Materials and Solar Cells, Volume 49, Issues 1-4, December 1997, Pages 357-363. *entire document*	1-78
Y	US 5436204 A (Albin et al.) 25 June 1995 (25.06.1995), Example 1.	4, 11, 18, 25, 32, 47, 54, 61, 68 and 75

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

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5244509 A (Arao et al.) 14 September 1993 (14.09.1993), col. 1 line 53-30, col. 12 lines 30-38.	38-43