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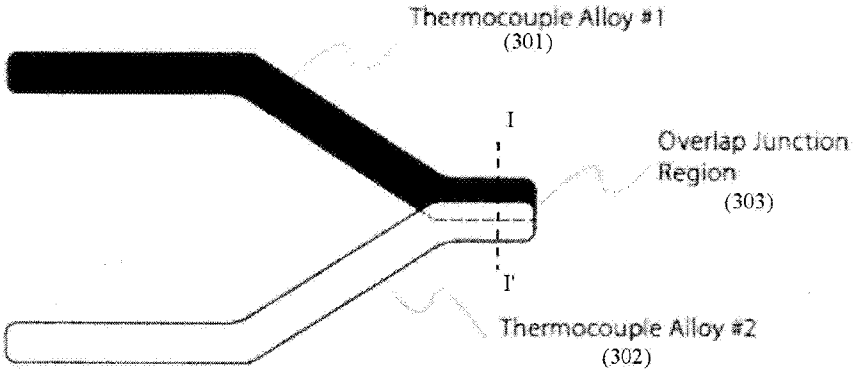
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(57) Abstract: A thermocouple disposed on a substrate comprises a first leg of thermoelectric material (301), a second leg of thermoelectric material (302), and a thermocouple junction (303) electrically connecting the first leg (301) and the second leg (302), wherein a height of the thermocouple junction (303) is substantially a height of the first or second legs.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/65785

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **G01K 7/00**(2006.01);**H01L 35/02**(2006.01),**35/12**(2006.01)

USPC: 374/179;136/230,236.1

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. : 374/179; 136/230, 236.1, 233, 242

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 --- Y	US 2004/0101022 A1 (HARDWICKE et al) 27 May 2004 (27.05.2004), figures 3, 4.	1-5, 7 --- 6, 8, 9
X	US 2005/0259719 A1 (PHILLIPS) 24 November 2005 (24.11.2005), figure 1.	10-15
Y	US 4,029,520 A (HAMPL, JR.) 14 June 1977 (14.06.1977), abstract.	6, 8, 9
Y	US 2002/0075937 A1 (YI et al) 20 June 2002 (20.06.2002), figure 2, abstract).	9
A	US 6,037,645 A (KREIDER) 14 March 2000 (14.03.2000)	1-7
A	US 3,556,865 A (LEVY) 28 December 1966 (28.12.1966).	6, 8, 9

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Date of the actual completion of the international search	Date of mailing of the international search report
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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.
A	US 6,072,165 A (FELDMAN) 06 June 2000 (06.06.2000).	10-15
A	US 4,440,508 A (HALOBURDO, JR. et al) 03 April 1984 (03.04.1984)	10-15
Y	US 4,423,967 A (MOUTON) 03 January 1984 (03.01.1984).	10-15
A	US 5,167,723 A (TSUKAKOSHI) 01 December 1992 (01.12.1992)	6, 8