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- (71) Applicant (for all designated States except US): **HSIO TECHNOLOGIES, LLC** [US/US]; 13300 67th Avenue North, Maple Grove, MN 55311 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **RATHBURN, James** [US/US]; 1599 Bluebird Lane, Mound, MN 55364 (US).
- (74) Agent: **SCHWAPPACH, Karl, G.**; Stoel Rives LLP, 201 So. Main Street, Suite 1100, One Utah Center, Salt Lake City, UT 84111 (US).
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(54) Title: SELECTIVE METALIZATION OF ELECTRICAL CONNECTOR OR SOCKET HOUSING

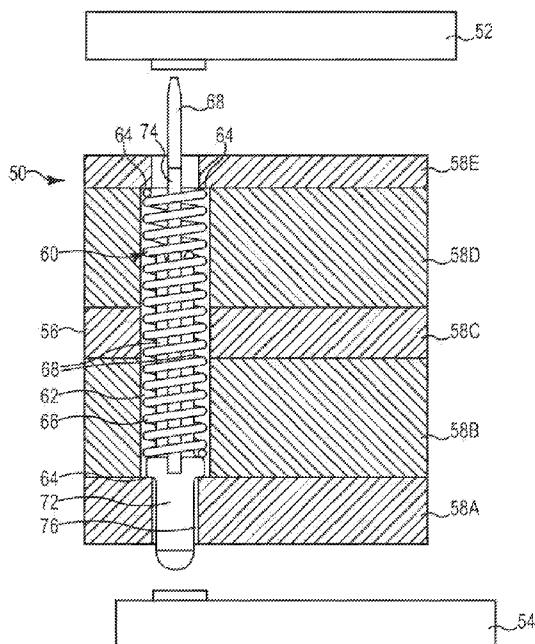


Fig. 1

(57) Abstract: A electrical interconnect adapted to provide an interface between contact pads on an IC device and a PCB. The electrical interconnect includes a multilayered substrate with a first surface with a plurality of first openings having first cross-sections, a second surface with a plurality of second openings having second cross-sections, and center openings connecting the first and second openings. The center openings include at least one cross-section greater than the first and second cross-sections. A plurality of spring probe contact members are located in the center openings. The contact members include first contact tips extending through the first opening and above the first surface, second contact tips extending through the second openings and above the second surface, and center portions located in the center openings. The center portions include a shape adapted to bias the first and second contact tips toward the IC device and PCB, respectively.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/027813

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H01R 12/51 (2012.01)

USPC - 439/66

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)

IPC(8) - G01R 1/06, 067, 073; H01L 23/32, 48, 498; H01R 12/00, 50, 51, 52, 70, 71, 13/00, 02, 15, 17 (2012.01)

USPC - 29/825, 829, 874, 876; 361/822; 439/65, 66, 68

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)

PatBase, Google Patents, Google Scholar

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X		1-6, 9-15, 18
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Y	US 2007/0269999 A1 (DI STEFANO) 22 November 2007 (22.11.2007) entire document	7, 8, 16, 17
Y	US 2004/0029411 A1 (RATHBURN) 12 February 2004 (12.02.2004) entire document	7, 8, 16, 17
A	US 2008/0143367 A1 (CHABINEAU-LOVGREN) 19 June 2008 (19.06.2008) entire document	1-18
A	US 2002/0088116 A1 (MILKOVICH et al) 11 July 2002 (11.07.2002) entire document	1-18
A	US 2006/0012966 A1 (CHAKRAVORTY) 19 January 2006 (19.01.2006) entire document	1-18

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Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450
Facsimile No. 571-273-3201

Authorized officer:

Blaine R. Copenheaver

PCT Helpdesk: 571-272-4300
PCT OSP: 571-272-7774