

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
22 November 2007 (22.11.2007)

PCT

(10) International Publication Number
WO 2007/133628 A3

(51) International Patent Classification:
H01R 9/03 (2006.01)

(21) International Application Number:
PCT/US2007/011295

(22) International Filing Date: 9 May 2007 (09.05.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/799,814 12 May 2006 (12.05.2006) US
11/744,345 4 May 2007 (04.05.2007) US

(71) Applicant (for all designated States except US):
WAVEZERO, INC. [US/US]; 425 Lakeside Drive,
Sunnyvale, California 94085 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **ARNOLD, Rocky,
Richard** [US/US]; 536 Dartmouth Avenue, San Carlos,
California 94070 (US).

(74) Agents: **DEL CASTILLO, Jesus** et al.; Townsend And
Townsend And Crew LLP, Two Embarcadero Center, 8th
Floor, San Francisco, California 94111-3834 (US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH,

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES,
FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN,
IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR,
LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX,
MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO,
RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL,
PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))

Published:

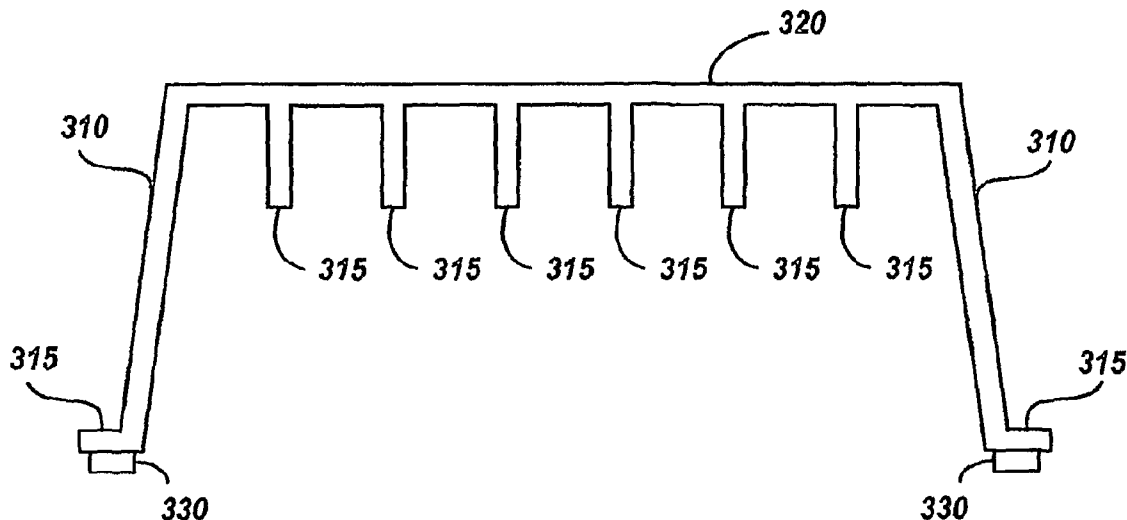
— with international search report
— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the international search report:

10 January 2008

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: SOLDERABLE PLASTIC EMI SHIELDING



(57) Abstract: An electromagnetic interference shield includes a polymer thin film metalized with conductive metals and a solderable material deposited over the conductive metals. The solderable material has a low melting temperature so that the solder can be heated to form a weld joint between a chip (or component) and the solder without damaging the metalized polymer thin film. One example of a low melting temperature solder is SnBi.

WO 2007/133628 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/11295

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H01R 9/03 (2007.01)

USPC - 439/610

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)
USPC - 439/610, 361/760

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC - 439/610, 361/760

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST (USPT, PGPB, EPAB, JPAB); DialogPRO (Engineering); Google Scholar
Search term: shielding, EMI shielding, polymer film, polymer layer, conductive metal, layer, solderable, soldering, soldered

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ---	US 6,768,654 B2 (ARNOLD et al.) 27 July 2004 (27.07.2004), entire document	1-5, 8-9, 11-13, 16-17, 19-28
Y		6-7, 10, 14-15, 18
Y	US 2003/0215056 A1 (VUORELA) 20 November 2003 (20.11.2003), para [0052]	6-7, 14-15
Y	US 5,874,770 A (SAIA et al.) 23 February 1999 (23.02.1999), col 3 ln 60-65	10, 18

Further documents are listed in the continuation of Box C.

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent but published on or after the international filing date	"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
"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)	"&" document member of the same patent family
"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	

Date of the actual completion of the international search 30 September 2007 (30.09.2007)	Date of mailing of the international search report 16 NOV 2007
---	--

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: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774 <i>Dut</i>
---	--