



(11) **EP 1 793 457 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
08.08.2007 Bulletin 2007/32

(51) Int Cl.:
H05K 9/00 (2006.01) H01R 13/658 (2006.01)

(43) Date of publication A2:
06.06.2007 Bulletin 2007/23

(21) Application number: **06124190.7**

(22) Date of filing: **16.11.2006**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
Designated Extension States:
AL BA HR MK YU

(72) Inventor: **MIYAMURA, Yukiharu,**
Pioneer Corporation
Ota-ku,
Tokyo 143-8564 (JP)

(74) Representative: **Haley, Stephen**
Gill Jennings & Every LLP
Broadgate House
7 Eldon Street
London EC2M 7LH (GB)

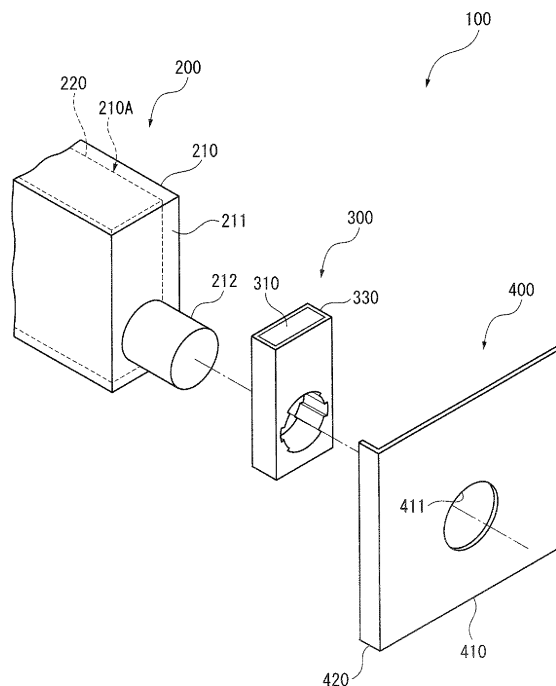
(30) Priority: **30.11.2005 JP 2005346537**

(71) Applicant: **Pioneer Corporation**
Tokyo 153-8654 (JP)

(54) **Conduction device and electronic device**

(57) A gasket (300) includes a sponge-like member (310) made of an elastic material, projections (334B), and first to fourth rectangular plate-like portions (331 to 334), the sponge-like member (310) having a through-hole (317) whose inner diameter equals to an outer diameter of a connector, the projections (334B) being formed on an opening edge of the through-hole (317) facing a panel opposing surface so as to project inwardly from an outer edge of the connector, the first to fourth rectangular plate-like portions (331 to 334) electrically connecting the projections (334B) and a grounded terminal panel to each other.

FIG. 1





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 06 12 4190

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2002/088628 A1 (CHEN SHIH HUI [TW]) 11 July 2002 (2002-07-11) * the whole document *	1-9	INV. H05K9/00 H01R13/658
X	US 5 735 712 A (HAAS ORVILLE A [US] ET AL) 7 April 1998 (1998-04-07) * abstract * * column 5, line 23 - line 50 * * column 6, line 38 - line 55 * * figures 4-8,10,11 *	1,7-9	
X	US 2005/014404 A1 (CECCHI MARINO [US]) 20 January 2005 (2005-01-20) * paragraph [0021] * * figure 3A *	1,7-9	
X	EP 0 534 920 A1 (ERICSSON TELEFON AB L M [SE]) 31 March 1993 (1993-03-31) * the whole document *	1,8,9	
X	WO 98/02940 A (SIEMENS AG [DE]; MATHESIUS CHRISTIAN [DE]) 22 January 1998 (1998-01-22) * abstract * * page 4, line 7 - page 5, line 13 * * figures 1-3 *	1,8,9	
X	DE 42 21 479 A1 (SIEMENS MATSUSHITA COMPONENTS [DE]) 5 January 1994 (1994-01-05) * column 1, line 68 - column 2, line 10 * * figures 2,3 *	1,8,9	TECHNICAL FIELDS SEARCHED (IPC) H01R H05K
A	US 6 348 654 B1 (ZHANG KAI [US] ET AL) 19 February 2002 (2002-02-19) * column 2, line 5 - line 33 *	1-9	
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 29 June 2007	Examiner Chelbosu, Liviu
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

2
EPO FORM 1503 03/02 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 06 12 4190

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

29-06-2007

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002088628 A1	11-07-2002	NONE	
US 5735712 A	07-04-1998	DE 19636789 A1 GB 2305308 A US 5647765 A	13-03-1997 02-04-1997 15-07-1997
US 2005014404 A1	20-01-2005	NONE	
EP 0534920 A1	31-03-1993	CA 2078461 A1 DE 69205540 D1 DE 69205540 T2 DK 534920 T3 FI 924308 A JP 5217615 A SE 469153 B SE 9102821 A US 5329066 A	28-03-1993 23-11-1995 11-04-1996 08-01-1996 28-03-1993 27-08-1993 17-05-1993 28-03-1993 12-07-1994
WO 9802940 A	22-01-1998	NONE	
DE 4221479 A1	05-01-1994	NONE	
US 6348654 B1	19-02-2002	AT 266305 T AU 1133302 A CA 2422712 A1 CN 1470153 A DE 60103172 D1 DE 60103172 T2 EP 1325675 A2 JP 2004511915 T WO 0232205 A2	15-05-2004 22-04-2002 18-04-2002 21-01-2004 09-06-2004 04-05-2005 09-07-2003 15-04-2004 18-04-2002