



**SUPPLEMENTARY
EUROPEAN SEARCH REPORT**

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	WO 2011/118416 A1 (AUTONETWORKS TECHNOLOGIES LTD [JP]; SUMITOMO WIRING SYSTEMS [JP]; SUMI) 29 September 2011 (2011-09-29) * abstract; figures 1-5 * -----	1-15
X	GB 2 349 018 A (YAZAKI CORP [JP]) 18 October 2000 (2000-10-18) * pages 13-16; figures 1-13 * -----	1-15
X	WO 2012/048103 A1 (SONICS & MATERIALS INC [US]; PATRIKIOS MIKE [US]) 12 April 2012 (2012-04-12) * abstract; figures 1-3 * -----	1-15
X	WO 2014/114672 A1 (ELRINGKLINGER AG [DE]) 31 July 2014 (2014-07-31) * abstract; figures 1-8 * -----	1-15
X	JP 2007 305314 A (HITACHI CABLE) 22 November 2007 (2007-11-22) * abstract; figures 1-16 * -----	1-15
X	US 2010/096185 A1 (OTSUKA YASUYUKI [JP] ET AL) 22 April 2010 (2010-04-22) * abstract; figures 1-4 * -----	1-15
A	WO 2013/145670 A1 (YAZAKI CORP [JP]) 3 October 2013 (2013-10-03) * abstract; figures 1-10 * -----	5,9
The supplementary search report has been based on the last set of claims valid and available at the start of the search.		
1	Place of search The Hague	Date of completion of the search 26 January 2018
Examiner Georgiadis, Ioannis		
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		

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

EP 15 84 7577

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.

26-01-2018

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 2011118416	A1	29-09-2011	JP	5447071 B2		19-03-2014
			JP	2011204440 A		13-10-2011
			WO	2011118416 A1		29-09-2011
<hr/>						
GB 2349018	A	18-10-2000	DE	10017464 A1		09-11-2000
			GB	2349018 A		18-10-2000
			JP	2000299140 A		24-10-2000
			US	6334798 B1		01-01-2002
			US	2002028612 A1		07-03-2002
<hr/>						
WO 2012048103	A1	12-04-2012	CA	2813953 A1		12-04-2012
			EP	2625746 A1		14-08-2013
			US	2012111629 A1		10-05-2012
			WO	2012048103 A1		12-04-2012
<hr/>						
WO 2014114672	A1	31-07-2014	CN	104823329 A		05-08-2015
			DE	102013201167 A1		07-08-2014
			EP	2949004 A1		02-12-2015
			US	2015325930 A1		12-11-2015
			WO	2014114672 A1		31-07-2014
<hr/>						
JP 2007305314	A	22-11-2007		NONE		
<hr/>						
US 2010096185	A1	22-04-2010	CN	101681700 A		24-03-2010
			EP	2192601 A1		02-06-2010
			JP	5235369 B2		10-07-2013
			JP	2009070769 A		02-04-2009
			US	2010096185 A1		22-04-2010
			WO	2009038099 A1		26-03-2009
<hr/>						
WO 2013145670	A1	03-10-2013	CN	104205502 A		10-12-2014
			DE	112013002610 T5		26-02-2015
			KR	20140134329 A		21-11-2014
			US	2015017833 A1		15-01-2015
			WO	2013145670 A1		03-10-2013
<hr/>						