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(74)

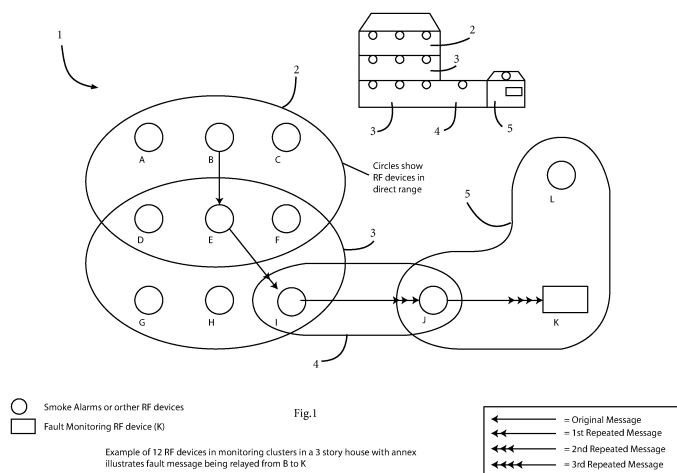
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(54)

A low current RF alarm device mesh network

(57)

A wireless alarm device network (1) comprises alarm devices (A-J, L) each having a processor, a wire-less communication interface, and a condition sensor. The devices are communicate by wirelessly transmitting messages, and in a learning mode, automatically register in a monitoring cluster according to received signal strengths. A device (A-J, K) recognises a device as being in its cluster if at least received signal strength exceeds a threshold. Each device is adapted to monitor each other device or devices in its cluster, and to generate an alert if it determines that a device in its cluster is not sending messages.



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EUROPEAN SEARCH REPORT

Application Number
EP 12 18 8123

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	WO 2010/076072 A1 (SIEMENS AG [DE]; KUBISCH MARTIN [DE]; KUEHM MATTHIAS [DE]; WILLIG ANDR) 8 July 2010 (2010-07-08) * page 6, lines 11-19 * * page 7, line 17 - page 8, line 11 * * page 8, line 32 - page 9, line 29 * * page 10, lines 1-23 * * page 11, lines 1-9 * * page 13, lines 4-14 * * page 14, lines 4-6 * * page 17, lines 29-36 * * page 20, lines 33-36 * * page 21, lines 15-20 * * page 22, lines 12-15 * * figures 1-3 *	1-16	INV. G08B25/00 G08B29/06
Y	AIZAT RAMLI ET AL: "RF signal Strength based clustering protocols for a self-organizing cognitive radio network", WIRELESS COMMUNICATION SYSTEMS (ISWCS), 2010 7TH INTERNATIONAL SYMPOSIUM ON, IEEE, PISCATAWAY, NJ, USA, 19 September 2010 (2010-09-19), pages 228-232, XP031792176, ISBN: 978-1-4244-6315-2 * Abstract; Sections I, II, IV.A; Figure 1. * ----- -/--	1-16	TECHNICAL FIELDS SEARCHED (IPC) G08B
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 2 April 2014	Examiner Meister, Mark
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

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EUROPEAN SEARCH REPORT

Application Number
EP 12 18 8123

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	HOJAE LEE ET AL: "Grouping multi-duolateration localization using partial space information for indoor wireless sensor networks", IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, IEEE SERVICE CENTER, NEW YORK, NY, US, vol. 55, no. 4, 1 November 2009 (2009-11-01), pages 1950-1958, XP011299230, ISSN: 0098-3063 * Abstract; Page 1953, right column, points 1) and 2); Page 1957, left column; Figure 1. *	1-16	TECHNICAL FIELDS SEARCHED (IPC)
Y	JIBO WEI ET AL: "Cooperative Transmission in the Wireless Sensors Network: Realization and Analysis", WIRELESS COMMUNICATIONS, NETWORKING AND MOBILE COMPUTING, 2006. WICOM 2006. INTERNATIONAL CONFERENCE ON, IEEE, PI, 1 September 2006 (2006-09-01), pages 1-4, XP031074455, ISBN: 978-1-4244-0517-6 * Section 3, points (1) and (2). *	1-16	
A	WO 2011/110251 A1 (TEXECOM LTD [GB]; ZSAR PETER ALEXANDER [GB]; DAY RICHARD [GB]) 15 September 2011 (2011-09-15) * Page 1, second paragraph; Paragraph crossing pages 1 and 2; Page 2, second and third paragraphs; Page 3, first and third paragraphs; Page 4, third paragraph; Paragraph crossing pages 4 and 5; * * figure 1 *	7	
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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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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
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02-04-2014

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