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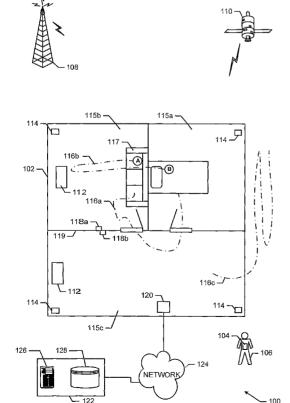
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(54) Title: METHODS AND APPARATUS FOR USING LOCATION INFORMATION TO MANAGE SPILLOVER IN AN AU-DIENCE MONITORING SYSTEM



(57) Abstract: Methods, apparatus, and articles of manufacture for using location information to manage spillover in an audience monitoring system are disclosed. In particular, the example methods, apparatus, and articles of manufacture detect spillover to generate media monitoring information. Initially, a first sensor located in a first location and a second sensor located in a second location receive a portable metering device signal. First location information is then associated with receiving the portable metering device signal via the first sensor and second location information is associated with receiving the portable metering device signal via the second sensor. Media monitoring information is then generated based on one of the first location information or the second location information.



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C. DOCI	JMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.		
X	US 2003/0136827 A1 (Kaneko et al) 24 July 2003 (2	4.07.2003), paragraphs 10, 18, 21, 31,	1-9, 11, 14, 16, 17		
Y	41, 46, 47, 49, 52, 56, 59-64, 74, 83.		10, 12, 13, 15		
$\frac{X}{Y}$	US 4,779,198 (Lurie) 18 October 1988 (18.10.1988), col. 6, 1. 23-52; col. 7, l. 60-67; col. 8, l. 1-7, 25-37, (18-22, 24-28 23, 29, 30		
Y	US 5,226,090 (Kimura) 6 July 1993 (06.07.1993), co 23-31.	ol. 2, l. 10-19; col. 3, l. 58-64; col. 6, l.	10, 15		
Y	US 4,779,198 (Lurie) 18 October 1988 (18.10.1988), col. 6, 1. 23-31.		12		
Y	US 4,644,509 (Kiewit et al) 17 February 1987 (17.02	2.1987), col. 1, l. 45-47.	13, 30		
Further	documents are listed in the continuation of Box C.	See patent family annex.			
* S	* Special categories of cited documents: "T" later document published after the international filing date or priorit date and not in conflict with the application but cited to understand				
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specified) considered to involve an inventive		"Y" document of particular relevance; the c considered to involve an inventive step combined with one or more other such	when the document is		
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ategory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,035,177 (Moses et al) 7 March 2000 (07.03.2000), col. 6, l. 60-67; col. 7, l. 1-6; col. 11, l. 21-40; col. 15, l. 46-58.	