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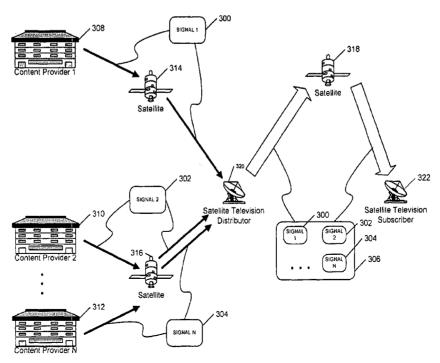
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[Continued on next page]

(54) Title: METHOD FOR DISPLAYING A PLURALITY OF VIDEO STREAMS ON A SINGLE DISPLAY



(57) Abstract: The systems and methods disclosed transmit a composite channel to a receiver. The composite channel may be a static channel that contains different original channels of content in different locations on a displayed page, or may be a dynamic channel that is processed by the receiver to display a multiple different video streams on a single display device.

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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).

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Category*	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No.						
χ	EP 1 246 465 A (CANAL+ S.A.)		1–19						
	2 October 2002 (2002-10-02)		1						
	paragraph [0105] — paragraph [01]	[5];							
	figure 18								
X	WO 2005/107245 A (AIRCODE CO., LT	D.)	1–19						
	10 November 2005 (2005-11-10)								
	page 9, line 1 - page 11, line 23	3							
	page 27, line 2 - page 30, line 1	12							
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## INTERNATIONAL SEARCH REPORT

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1246465	À	02-10-2002	EP	1097584 A1	09-05-2001
WO 2005107245	Α	10-11-2005	NONE		