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(54) Title: MEGA-FRAME INITIALIZATION PACKET GENERATION AND SYNCHRONOUS RE-GENERATION WITH BIT RATE ADAPTATION FOR SINGLE FREQUENCY NETWORKS WITH MULTIPLE MODULATION SCHEMES

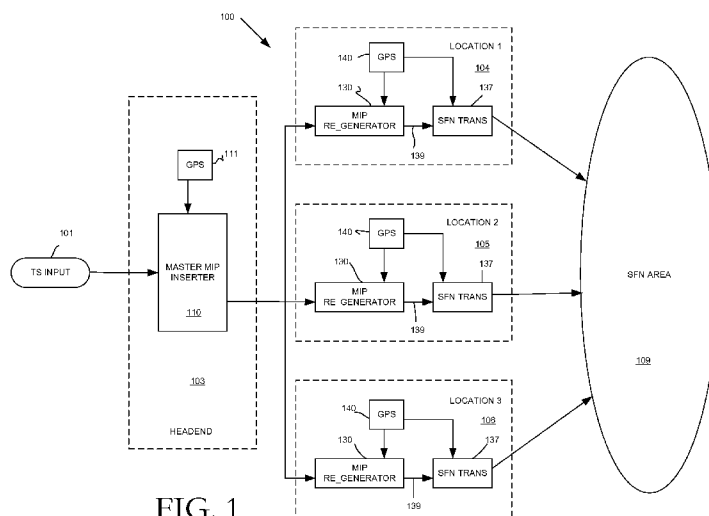


FIG. 1

(57) Abstract: A system and processes create a Mega-frame Initialization Packet such that remote MIP inserters can regenerate Transport Stream bit rate and MIPs for Single Frequency Networks with modulation schemes different from an incoming stream in a totally deterministic way. This process guarantees that all MIP re-generators having the same signal at the input and having the same modulation scheme generate exactly the same stream (bit exact) even in multiple locations.

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## INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER INV. H04J3/06 H04N7/24 H04H20/18 H04H20/67		
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B. FIELDS SEARCHED		
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
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C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2006/088023 A1 (MULLER DOMINIQUE [FI] MUELLER DOMINIQUE [FI]) 27 April 2006 (2006-04-27) abstract; claims 1,2,7,8,13,14,19,20; figures 1,3,4,7 paragraphs [0010], [0025] - [0029], [0039] - [0047]	1-10
A	WO 2007/050217 A2 (GEN INSTRUMENT CORP [US]; ELSTERMANN ERIK [US]) 3 May 2007 (2007-05-03) abstract; claims 2,8; figures 1-3 paragraphs [0004], [0016] - [0018], [0026]	1-10
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents : *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family		
Date of the actual completion of the international search  26 June 2009		Date of mailing of the international search report  06/07/2009
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016		Authorized officer  Wolters, Robert

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>"Digital Video Broadcasting (DVB); DVB mega-frame for Single Frequency Network (SFN) synchronization; ETSI TS 101 191" ETSI STANDARDS, LIS, SOPHIA ANTIPOLIS CEDEX, FRANCE, vol. BC, no. V1.4.1, 1 June 2004 (2004-06-01), XP014015853 ISSN: 0000-0001 cited in the application the whole document</p> <p>-----</p>	1-10
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A	<p>EUROPEAN TELECOMMUNICATIONS STANDARDS INSTITUTE: "Digital Video Broadcasting (DVB); Framing structure, channel coding and modulation for digital terrestrial television" ETSI EN 300 744 V1.4.1, XX, XX, 1 January 2001 (2001-01-01), XP002207124 cited in the application the whole document</p> <p>-----</p>	1-10

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Information on patent family members

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