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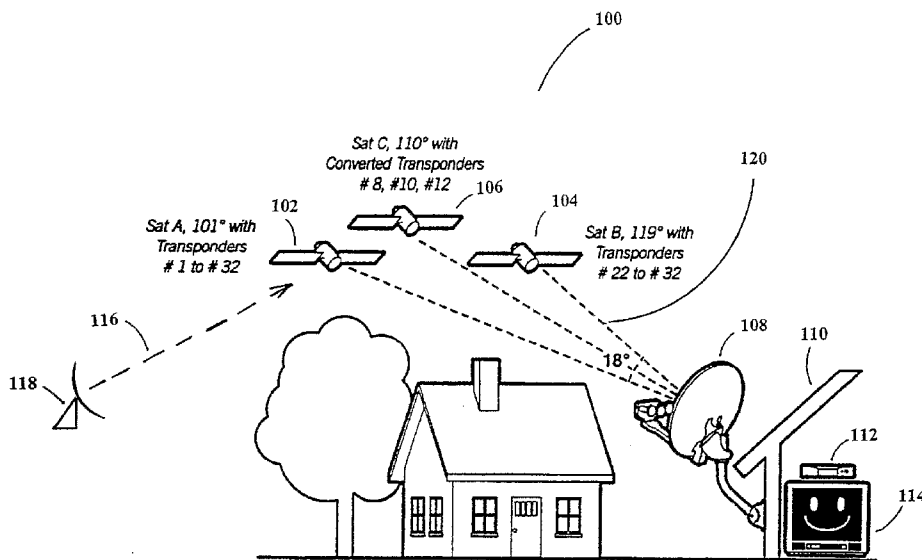
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(54) Title: INTELLIGENT TWO-WAY SWITCHING NETWORK



(57) Abstract: An intelligent switching network for delivering satellite signals to a plurality of Integrated Receiver Decoder (IRD). The network comprises a plurality of inputs, designed to receive a plurality of satellite signals, wherein the satellite signals are directed to the inputs based on an originating satellite for each of the satellite signals, a multiswitch, having a plurality of inputs and a plurality of outputs, wherein at least some of the inputs are coupled to the plurality of inputs and receive the satellite signals, and an interface, coupling the plurality of IRDs to the outputs of the multiswitch through the interface on a single cable, wherein the interface controls the flow of signals from the plurality of IRDs to the multiswitch and controls the flow of satellite signals to the plurality of IRDs based on commands from the IRDs to the interface.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2006/012291

A. CLASSIFICATION OF SUBJECT MATTER		
Int. Cl. <i>H04N 7/20</i> (2006.01)		
US Cl. 725/68, 725/70		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
US Cl. 725/68, 725/70		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
WPAT: satellite signals, multiswitch, irds, interface, single cable and similar terms		
USPTO: satellites, multiswitch, irds, interface, diseq and similar terms		
INSPEC: diseq		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E,X	US 7130576 B1 (GURANTZ et al.) 31 October 2006 Col. 2 line 54-Col. 11 line 57	1-4, 9, 15-20
P,X	US 2005/0190777 A1 (HESS et al.) 1 September 2005 Page 3 Para 0042-Page 5 Para 0056	1, 3, 4,15-20
P,X	US 2005/0193419 A1 (LINDSTROM et al.) 1 September 2005 Page 4 Para 0054-Page 7 Para 0078	1, 3,15-20
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex		
* "A"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance	"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
"E"	earlier application or patent but published on or after the international filing date	"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
"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)	"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
"O"	document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed	
Date of the actual completion of the international search 9 August 2007	Date of mailing of the international search report 12 FEB 2008	
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Blaine R. Copenheaver Helpdesk: 571-272-4300 PCT OSP: 571-272-7774	

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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.
X	US 2004/0060065 A1 (JAMES et al) 25 March 2004 Page 1 Para 0006-Page 3 Para 0041	1-4
Y	Page 1 Para 0006-Page 3 Para 0041	9
X	US 2002/0154055 A1 (DAVIS et al.) 24 October 2002 Page 2 Para 0014-Page 4 Para 0051	1, 3, 4, 15-17, 19, 20
Y	US 2004/0229583 A1 (OGINO) 18 November 2004 Page 1 Para 0007; fig.1	9
P,A	WO 2005/114879 A2 (THOMSON LICENSING S.A. et al.) 1 December 2005 Page 3 line 3-Page 19 line 9	1-20
A	US 5898455 A (BARAKAT et al.) 27 April 1999 Col. 2 line 62-Col. 6 line 52	1-20

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. These particulars are merely given for the purpose of information.

Patent Document Cited in Search Report	Patent Family Member
US 7130576	N/A
US 2005/0190777	US 2005193419
US 2004/0060065	N/A
US 2002/0154055	N/A
US 2004/0229583	CN 1523771 JP 2004253955
WO 2005/114879	N/A
US 5898455	N/A
END OF ANNEX	