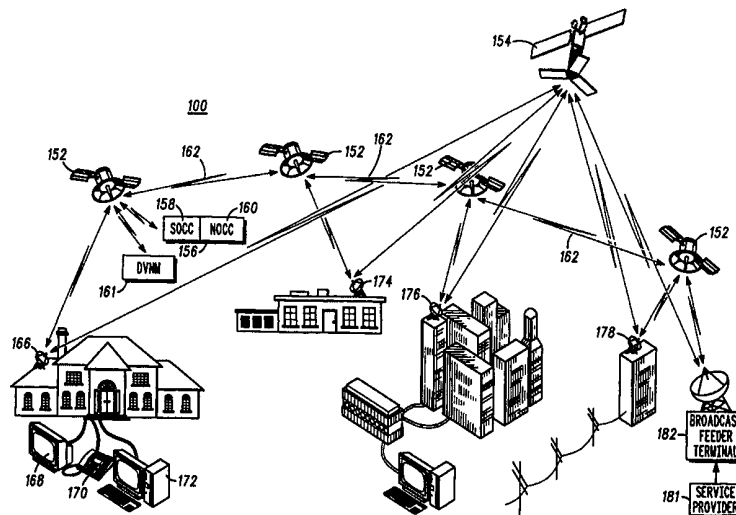




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification ⁶ : H04Q 11/04</p>	<p>A3</p>	<p>(11) International Publication Number: WO 99/45652 (43) International Publication Date: 10 September 1999 (10.09.99)</p>
<p>(21) International Application Number: PCT/US99/04791 (22) International Filing Date: 2 March 1999 (02.03.99) (30) Priority Data: 09/034,305 2 March 1998 (02.03.98) US (71) Applicant (for all designated States except US): MOTOROLA INC. [US/US]; 1303 East Algonquin Road, Schaumburg, IL 60196 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): BISHOP, James, William, Jr. [US/US]; 4863 West Morelos Street, Chandler, AZ 85226 (US). HARRIS, Jeffrey, Martin [US/US]; 2722 West Jasper Drive, Chandler, AZ 85224 (US). WOODWARD, Ernest, Earl [US/US]; 2730 West Kent Drive, Chandler, AZ 85224 (US). HOGG, Gerald, James [US/US]; 15251 East Thistle Drive, Fountain Hills, AZ 85268 (US). STINSON, Michael, Keith [US/US]; 12222 North 84th Place, Scottsdale, AZ 85250 (US). CORNILS, Curtis [US/US]; 1754 West San Tan, Chandler, AZ 85224 (US). GRIFFIN, Craig, Thomas [US/US]; 4172 West Gail, Chandler, AZ 85226 (US). FOX, Thomas, Michael [US/US]; 9433 South 157th Place, Gilbert, AZ 85234 (US). MOFFETT, Linda, Lee [US/US]; 2623 E.</p>		<p>Libra Street, Gilbert, AZ 85234 (US). OLDS, Keith, Andrew [US/US]; 548 West Pampa, Mesa, AZ 85210 (US). (74) Agents: INGRASSIA, Vincent, B. et al.; Motorola Inc., Intellectual Property Dept., P.O. Box 10219, Scottsdale, AZ 85271-0219 (US). (81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 27 January 2000 (27.01.00)</p>

(54) Title: ARCHITECTURE FOR A GROUND SYSTEM TERMINAL FOR A BROADBAND NETWORK



(57) Abstract

The present invention provides a basic platform/architecture for customer premises equipment (CPE) for use in communications systems such as satellite communications systems. The present invention provides a CPE (400) which is capable of transferring data to and from a plurality of different systems having different infrastructures associated therewith. This data is processed to a data form that is supplied to a multimedia services core processor (404) which is responsible for data, service and network management functions and for providing a plurality of features such as security and accounting - to name a few. The output of the core processor is supplied, via an open interface architecture, to one or more of application specific variants (406) for coupling to one or more corresponding user equipment. Such application specific variants may provide appropriate interface to user equipment such as televisions, personal computers and video conferencing units.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
AU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav Republic of Macedonia	TM	Turkmenistan
BF	Burkina Faso	GR	Greece	ML	Mali	TR	Turkey
BG	Bulgaria	HU	Hungary	MN	Mongolia	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MR	Mauritania	UA	Ukraine
BR	Brazil	IL	Israel	MW	Malawi	UG	Uganda
BY	Belarus	IS	Iceland	MX	Mexico	US	United States of America
CA	Canada	IT	Italy	NE	Niger	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NL	Netherlands	VN	Viet Nam
CG	Congo	KE	Kenya	NO	Norway	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NZ	New Zealand	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's Republic of Korea	PL	Poland		
CM	Cameroon	KR	Republic of Korea	PT	Portugal		
CN	China	KZ	Kazakstan	RO	Romania		
CU	Cuba	LC	Saint Lucia	RU	Russian Federation		
CZ	Czech Republic	LI	Liechtenstein	SD	Sudan		
DE	Germany	LK	Sri Lanka	SE	Sweden		
DK	Denmark	LR	Liberia	SG	Singapore		
EE	Estonia						

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 99/04791

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 H04Q11/04

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)
IPC 6 H04Q

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 practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A A	US 5 519 403 A (BICKLEY ROBERT H ET AL) 21 May 1996 (1996-05-21) abstract --- NAKAYAMA M ET AL: "A SATELLITE COMMUNICATION SYSTEM FOR INTERACTIVE MULTIMEDIA NETWORKS" IEICE TRANSACTIONS ON COMMUNICATIONS, JP, INSTITUTE OF ELECTRONICS INFORMATION AND COMM. ENG. TOKYO, vol. 80-B, no. 1, page 103-107 XP000723012 ISSN: 0916-8516 abstract; figure 2 ---	6 1,8 1,6,8
	-/--	

Further documents are listed in the continuation of box C. Patent family members are listed in 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 29 November 1999	Date of mailing of the international search report 06/12/1999
--	---

Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Dhondt, E
--	--

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 99/04791

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>CHAMBERS C S: "DESIGNING A SET-TOP BOX OPERATING SYSTEM" INTERNATIONAL CONFERENCE ON CONSUMER ELECTRONICS - DIGEST OF TECHNICAL PAPERS, US, NEW YORK, IEEE, vol. CONF. 14, page 368-369 XP000547858 ISBN: 0-7803-2141-3 page 369, right-hand column, line 1-14</p>	1,8
A	<p>US 5 592 470 A (RUSSELL JESSE E ET AL) 7 January 1997 (1997-01-07) abstract</p>	1,6,8

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 99/04791

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5519403	A	21-05-1996	NONE	
US 5592470	A	07-01-1997	EP 0719062 A	26-06-1996
			JP 8280058 A	22-10-1996