

4 Documents

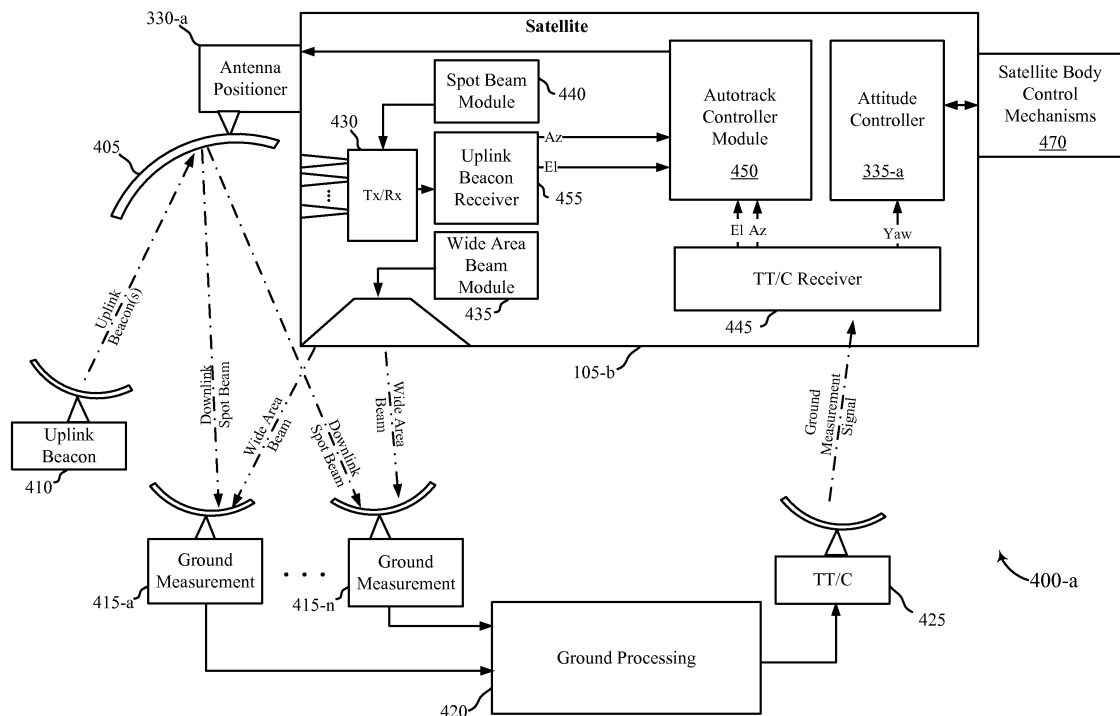
Publication numbers	Title	Current assignees
EP2875592 A1	Ground assisted satellite antenna pointing system	VIASAT
EP3289699 A1	Handoff for satellite communication	QUALCOMM
EP-998060 A2	Method for enhancing performance of open-loop power control algorithms for satellite communications systems	NORTHROP GRUMMAN SYSTEMS
US5754139 A	Method and intelligent digital beam forming system responsive to traffic demand	CDC PROPRIÉTÉ INTELLECTUELLE

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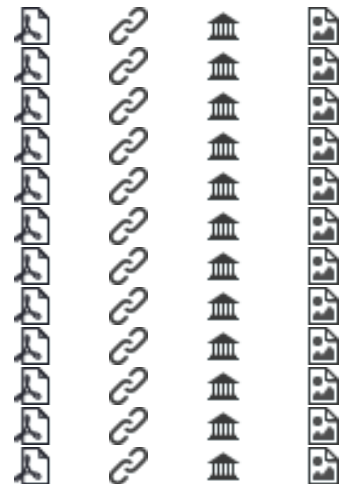
Title

(EP2875592)

Ground assisted satellite antenna pointing system

Images**Publication numbers with kind code & date**

EP3379741	B1	2020-02-12	EP3379741
EP3379741	A1	2018-09-26	EP3379741
ES2677716	T3	2018-08-06	ES2677716
EP2875592	B1	2018-05-02	EP2875592
BR112015000756	A2	2017-06-27	BR112015000756
AU2013292531	B2	2017-05-11	AU2013292531
EP2875592	A1	2015-05-27	EP2875592
BR112015000756	A1	2015-03-31	BR112015000756
AU2013292531	A1	2014-12-04	AU2013292531
US8723724	B2	2014-05-13	US8723724
US20140022120	A1	2014-01-23	US20140022120
WO2014/015169	A1	2014-01-23	WO201415169

**Abstract**

(EP2875592)

Methods, systems, and devices are described for orienting a satellite antenna. In the methods, systems, and devices of the present disclosure, a satellite may provide multiple spot beams, each of the spot beams associated with a specific coverage area. The satellite may also transmit a wide beam downlink signal over a wide area beam having a coverage area that includes each of the spot beams. The satellite may receive an uplink beacon signal. The satellite antenna may be positioned according to azimuth and elevation determined from ground measurements of the spot beams and the satellite measurements of the uplink beacon signal.

Inventors

MENDELSON AARON

MILLER MARK

Latest standardized assignees - inventors removed

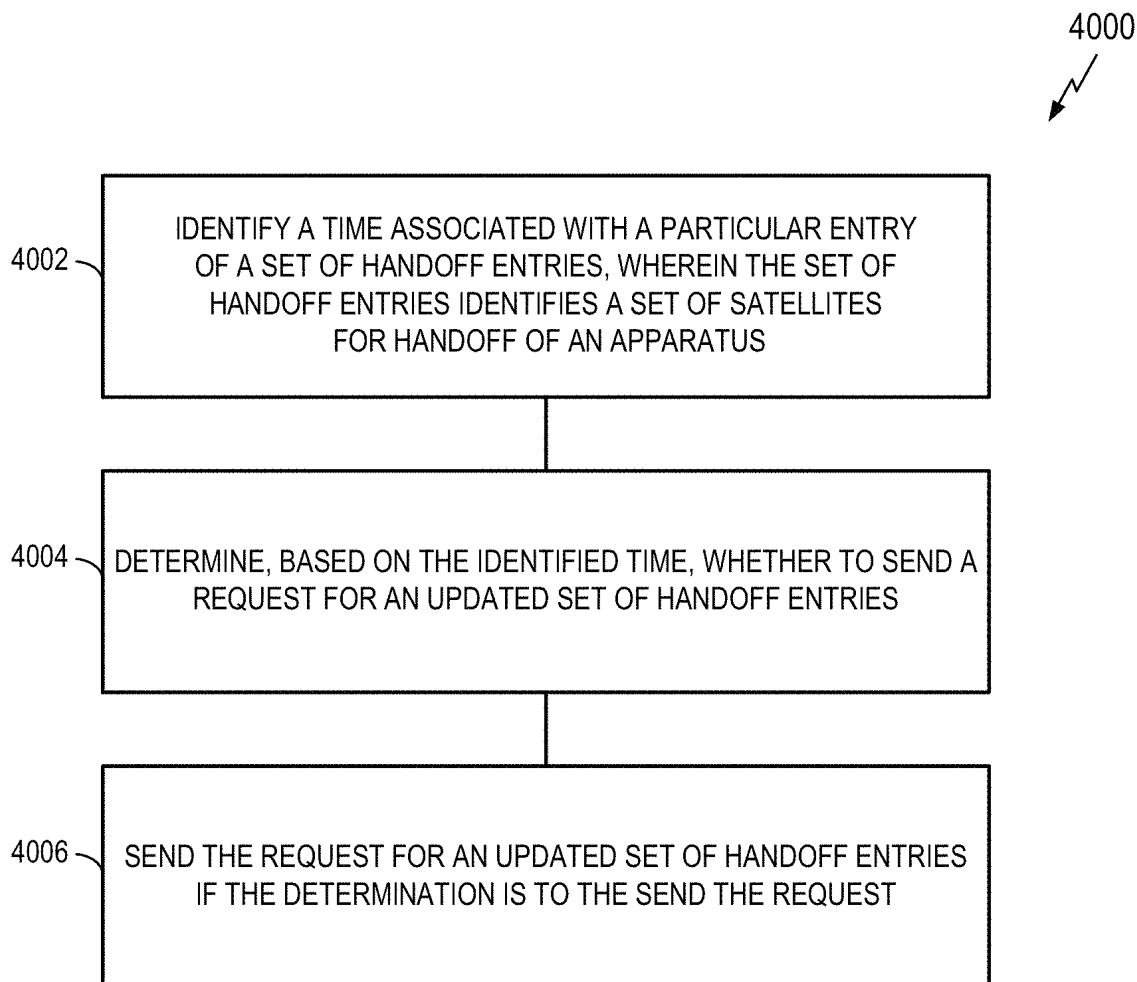
VIASAT

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Title

(EP3289699)

Handoff for satellite communication

Images**Publication numbers with kind code & date**

EP3289699	B1	2020-04-08	EP3289699
CN108112281	B	2019-07-05	CN108112281B
TWI653849	B	2019-03-11	TWI653849
JP6469255	B2	2019-02-13	JP6469255
KR10-1911197	B1	2018-12-28	KR101911197
JP2018520536	A	2018-07-26	JP2018520536
BR112017023570	A2	2018-07-24	BR112017023570
US10009093	B2	2018-06-26	US10009093
CN108112281	A	2018-06-01	CN108112281
BR112017023570	A1	2018-04-03	BR112017023570
EP3289699	A1	2018-03-07	EP3289699
US9888426	B2	2018-02-06	US9888426
KR20170141700	A	2017-12-26	KR20170141700
SG11201707386S	A	2017-11-29	SG11201707386S
IN201747032443	A	2017-09-22	IN201747032443



US9762314	B2	2017-09-12	US9762314				
US20170230104	A1	2017-08-10	US20170230104				
TW201642598	A	2016-12-01	TW201642598				
WO2016/178838	A1	2016-11-10	WO2016178838				
WO2016/179037	A1	2016-11-10	WO2016179037				
US20160323032	A1	2016-11-03	US20160323032				
US20160323800	A1	2016-11-03	US20160323800				

Abstract

(EP3289699)

Various aspects of the disclosure relate to handoff of a user terminal in communication with a satellite network portal through a satellite. In some aspects, a satellite network portal and a user terminal use a satellite handoff information to determine when to handoff the user terminal from one cell to another and/or from one satellite to another. In some aspects, a user terminal sends capability information, location information, or other information to a satellite network portal whereby, based on this information, the satellite network portal generates the satellite handoff information and/or selects a handoff procedure for the user terminal. In some aspects, handoff of a user terminal to a different satellite involves the user terminal conducting satellite signal measurements and sending a measurement message to the satellite network portal. In some aspects, the satellite network portal generates new satellite handoff information as a result of receiving a measurement message.

Inventors

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Latest standardized assignees - inventors removed

QUALCOMM

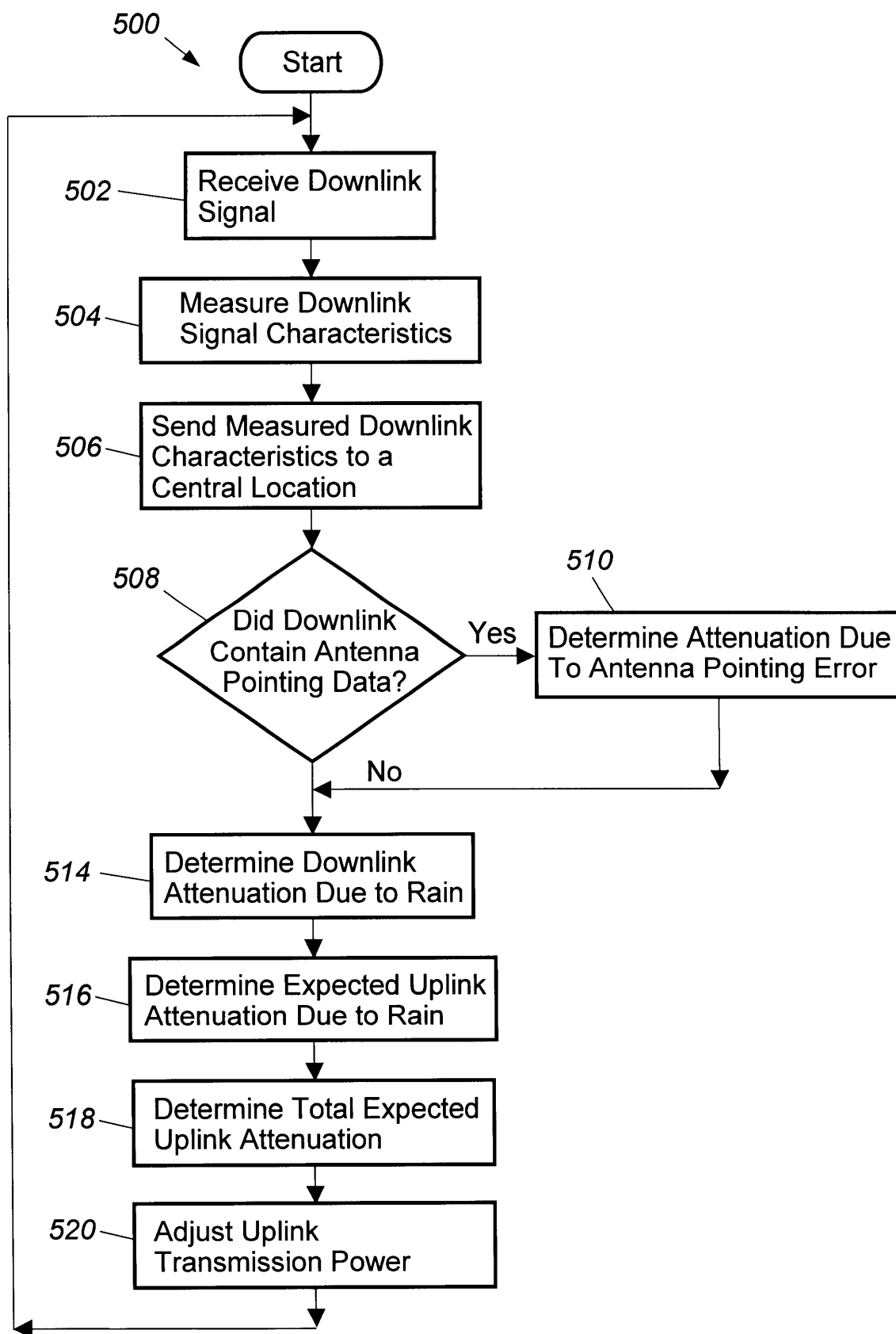
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Title

(EP-998060)

Method for enhancing performance of open-loop power control algorithms for satellite communications systems

Images

**Publication numbers with kind code & date**

EP0998060	A3	2003-02-26	EP-998060
US6321065	B1	2001-11-20	US6321065
EP0998060	A2	2000-05-03	EP-998060

**Abstract**

(EP0998060)

The present invention provides an open-loop method for determining uplink transmission power in a satellite

communication system 200 that compensates for antenna pointing error attenuation and for rain attenuation. Satellite downlink signal 208 attenuation is measured. Antenna pointing information is then used in conjunction with antenna gain pattern information 400 to determine antenna pointing error attenuation. The measured downlink attenuation and antenna pointing error attenuation are then used to determine the amount of rain attenuation on the downlink 208. The downlink attenuation information is then used to determine the amount of uplink 216 attenuation to be expected. Uplink transmission power levels are then adjusted accordingly to overcome the expected uplink 216 attenuation. <IMAGE>

Inventors

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Latest standardized assignees - inventors removed

NORTHROP GRUMMAN SYSTEMS

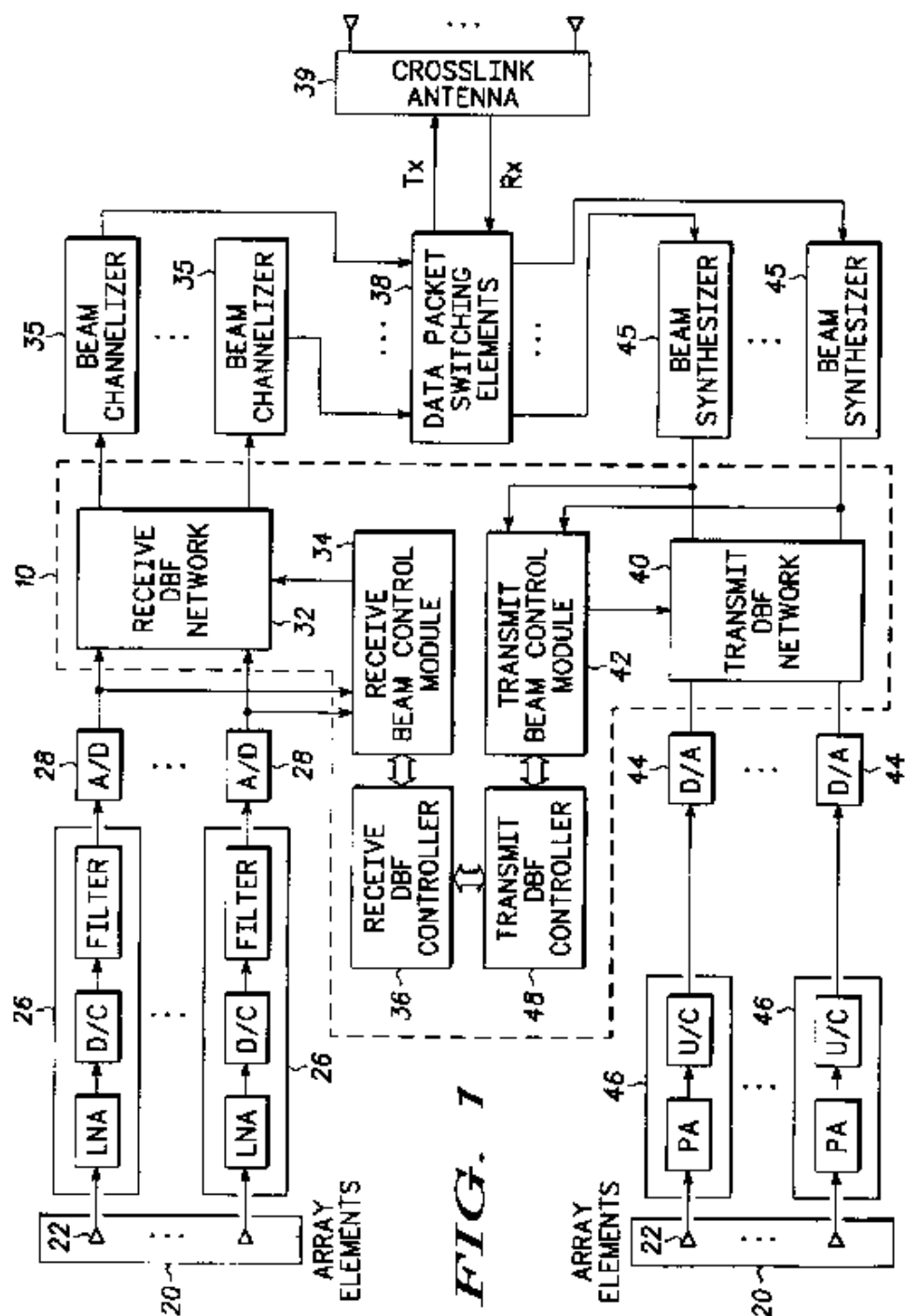
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Title

(US5754139)

Method and intelligent digital beam forming system responsive to traffic demand

Images



Publication numbers with kind code & date

DE19747065	B4	2010-04-08	DE19747065
FR2755329	B1	2007-06-08	FR2755329
CA2217805	C	2004-05-11	CA2217805
GB2318947	B	2001-08-15	GB2318947
JP10145275	A	1998-05-29	JP10145275
US5754139	A	1998-05-19	US5754139
DE19747065	A1	1998-05-07	DE19747065
GB2318947	A	1998-05-06	GB2318947
FR2755329	A	1998-05-01	FR2755329
CA2217805	A1	1998-04-30	CA2217805
FR2755329	A1	1998-04-30	FR2755329



[GB9719332](#)

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1997-11-12

GB9719332

**Abstract**

(US5754139)

An intelligent digital beam former (10) in conjunction with a satellite based array antenna (20) provides a plurality of dynamically controllable antenna beams (52) for communication with subscriber units (90) in response to demand for communication services. Geographic portions within the satellite's footprint that have a higher-demand for communication services are dynamically provided additional antenna beams while geographic portions having a lower demand for communication services are provided less antenna beams. When used on a non-geostationary satellite, the digital beam forming coefficients are dynamically adjusted to steer the antenna beams to maintain their ground location. The antenna beams are also shaped to help optimized geographic coverage.\!

Inventors

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Latest standardized assignees - inventors removed

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