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(12) United States Patent Zheng et al.

(54) METHOD FOR CONSTRUCTING FRAME STRUCTURES

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 12, 2007, provisional application No. 60/973,157, filed on Sep. 17, 2007.

(51) **Int. Cl.**

H04J 3/24 (2006.01)

(52) U.S. Cl. 370/473; 370/474; 370/476; 455/448

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

5,491,531	A *	2/1996	Adams et al.	 375/354
6,904,550	B2	6/2005	Sibecas et al.	

(10) Patent No.: US 8,265,096 B2 (45) Date of Patent: Sep. 11, 2012

7,110,350	B2	9/2006	Li et al.
7,586,887	B2 *	9/2009	Trachewsky 370/338
7,809,020	B2 *	10/2010	Douglas et al 370/474
8,077,592	B2	12/2011	Webster et al.
2002/0034172	A1*	3/2002	Но 370/338
2004/0223478	A1*	11/2004	Fischer et al 370/338
2005/0063345	A1	3/2005	Wu et al.
2005/0111529	A1*	5/2005	Bradley 375/148
2005/0180461	A1	8/2005	Kao et al.
ECCC. CCTCEID	A1	1/2006	Agrawal et al.
2006/0227778	A1	10/2006	Jin et al.
2007/0097946	A1*	5/2007	Mujtaba 370/349
2007/0155315	A1	7/2007	Lee et al.
2007/0189149	A1*	8/2007	Terabe 370/491
2008/0095195	A1*	4/2008	Ahmadi et al 370/478
2008/0285513	A1*	11/2008	Jung et al 370/329
	A1	1/2009	Zheng et al.
2009/0116435		5/2009	Koorapaty et al 370/329
2011/0222504	A1	9/2011	Ma et al.
2012/0140730	A1*	6/2012	Marks et al 370/330

FOREIGN PATENT DOCUMENTS

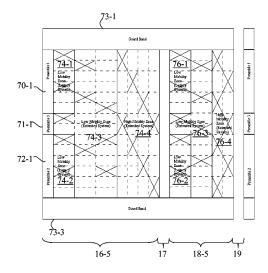
WO WO 2006/092852 * 8/2006

Primary Examiner — Jeffrey M Rutkowski (74) Attorney, Agent, or Firm — Alston & Bird LLP

(57) ABSTRACT

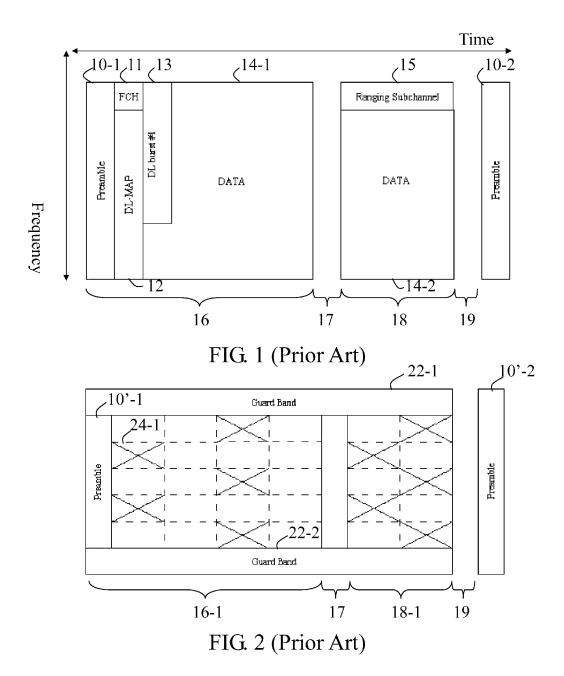
A method of constructing a frame structure for data transmission, the method comprising generating a first section comprising data configured in a first format compatible with a first communication system, generating a second section following the first section, the second section comprising data configured in a second format compatible with a second communication system, wherein the second format is different from the first format, generating at least one non-data section containing information describing an aspect of data in at least one of the first section and the second section, and combining the first section, the second section and the at least one non-data section to form the frame structure.

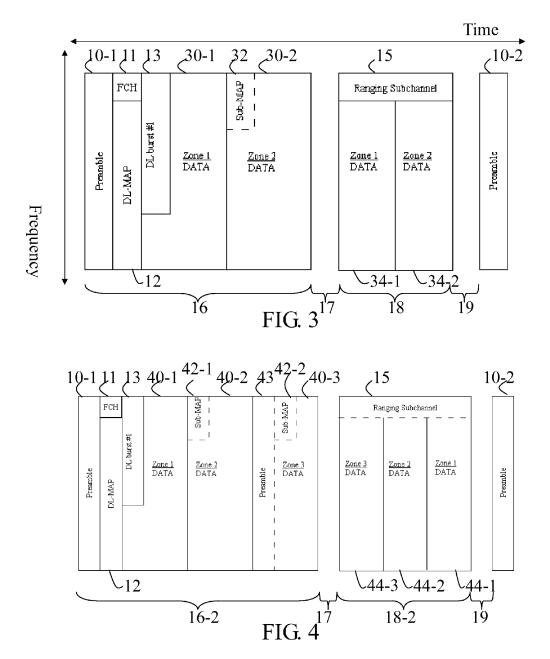
43 Claims, 6 Drawing Sheets





^{*} cited by examiner





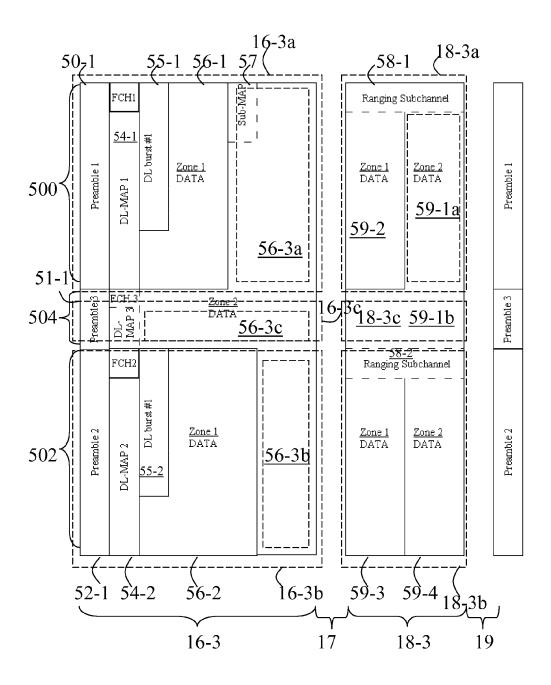


FIG. 5

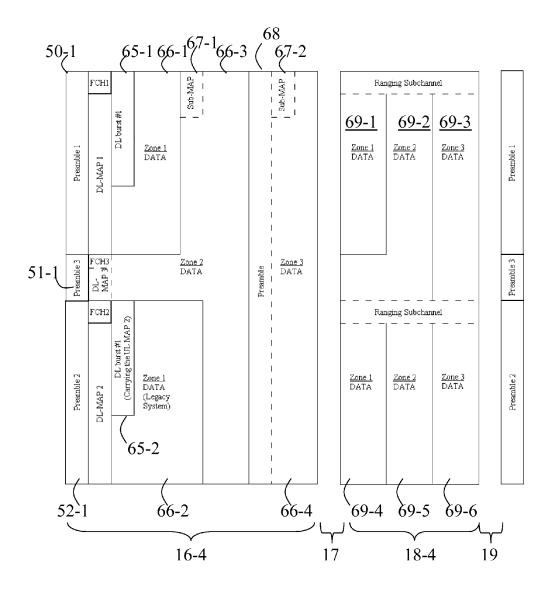


FIG. 6A

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