

US008265096B2

# (12) United States Patent Zheng et al.

# (54) METHOD FOR CONSTRUCTING FRAME STRUCTURES

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(\*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 385 days.

(21) Appl. No.: 12/168,855

(22) Filed: Jul. 7, 2008

(65) **Prior Publication Data** 

US 2009/0016371 A1 Jan. 15, 2009

## Related U.S. Application Data

(60) Provisional application No. 60/929,798, filed on Jul.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.

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

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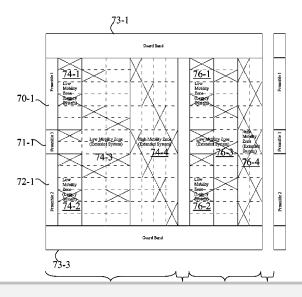
WO WO 2006/092852 \* 8/2006

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#### (57) ABSTRACT

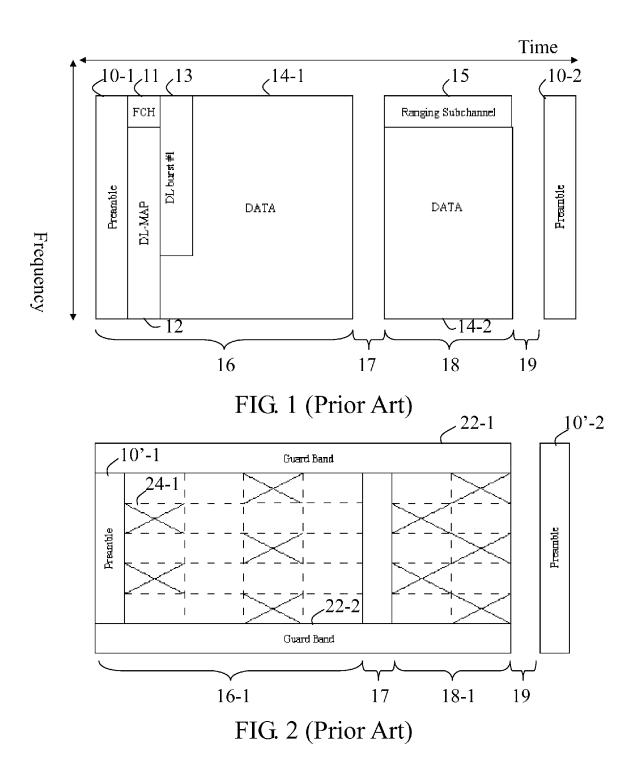
A method of constructing a frame structure for data transmission, the method comprising generating a first section comprising data configured in a first format compatible with a first communication system, generating a second section following the first section, the second section comprising data configured 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

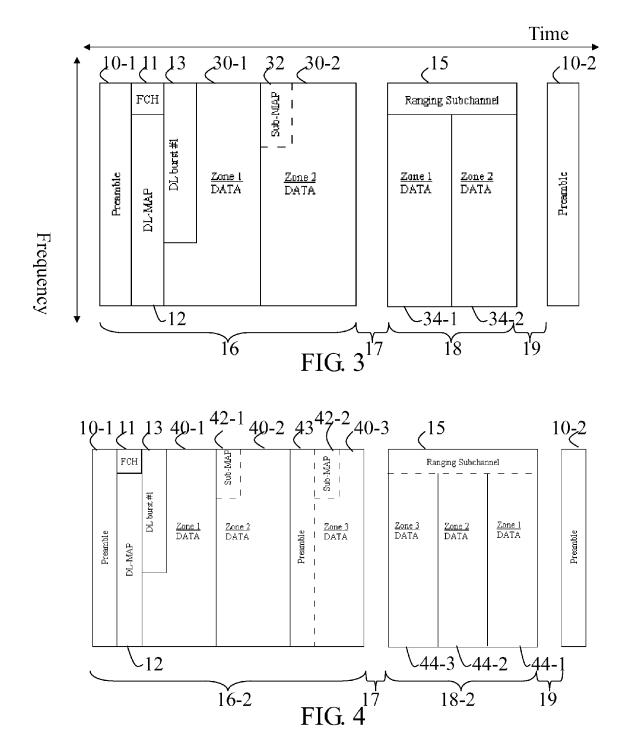




<sup>\*</sup> cited by examiner







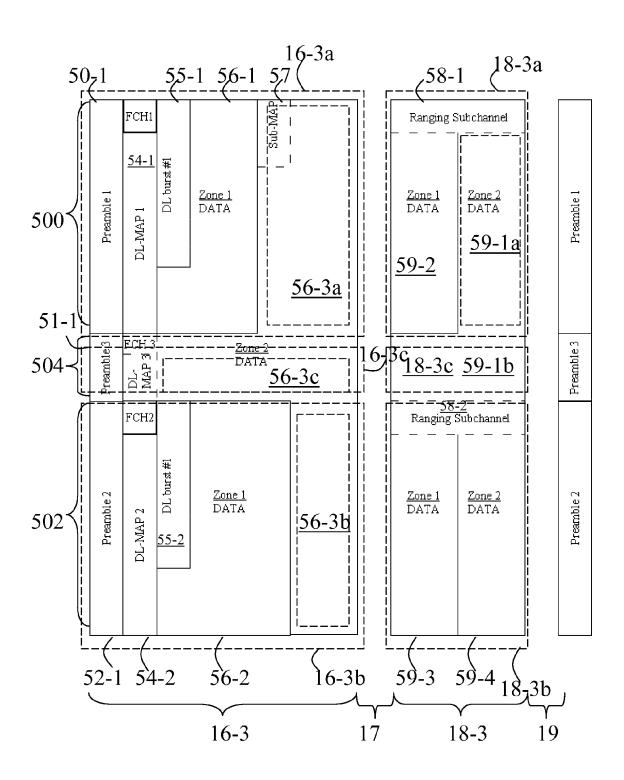


FIG. 5



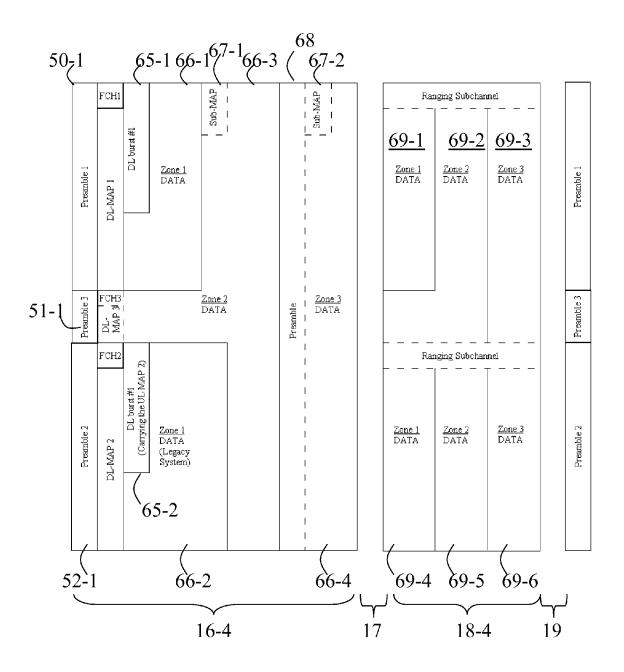


FIG. 6A



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