



US 20070058595A1

(19) **United States**

(12) **Patent Application Publication**

**Classon et al.**

(10) **Pub. No.: US 2007/0058595 A1**

(43) **Pub. Date: Mar. 15, 2007**

(54) **METHOD AND APPARATUS FOR REDUCING ROUND TRIP LATENCY AND OVERHEAD WITHIN A COMMUNICATION SYSTEM**

(21) Appl. No.: 11/276,981

(22) Filed: Mar. 20, 2006

**Related U.S. Application Data**

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(60) Provisional application No. 60/666,494, filed on Mar. 30, 2005.

**Publication Classification**

(51) **Int. Cl.**  
*H04B 7/212* (2006.01)

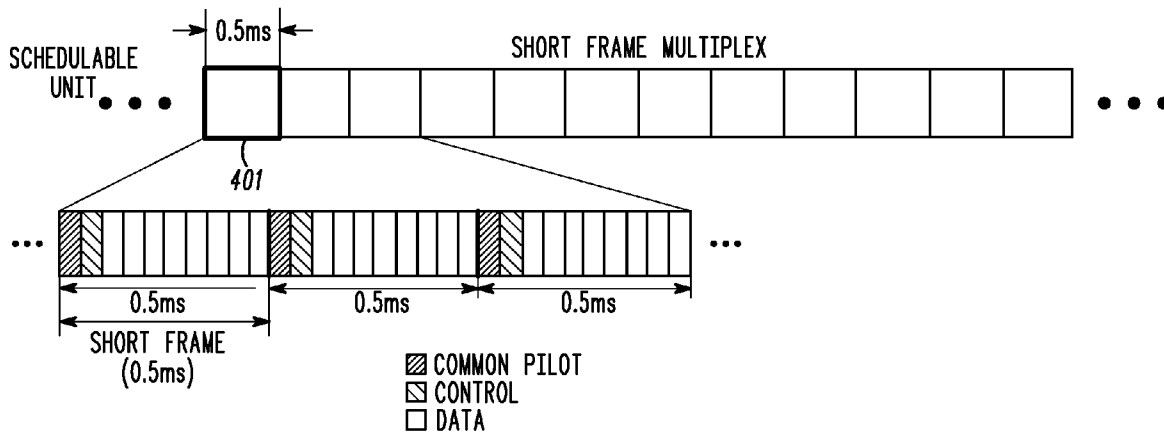
(52) **U.S. Cl.** ..... 370/337; 709/236

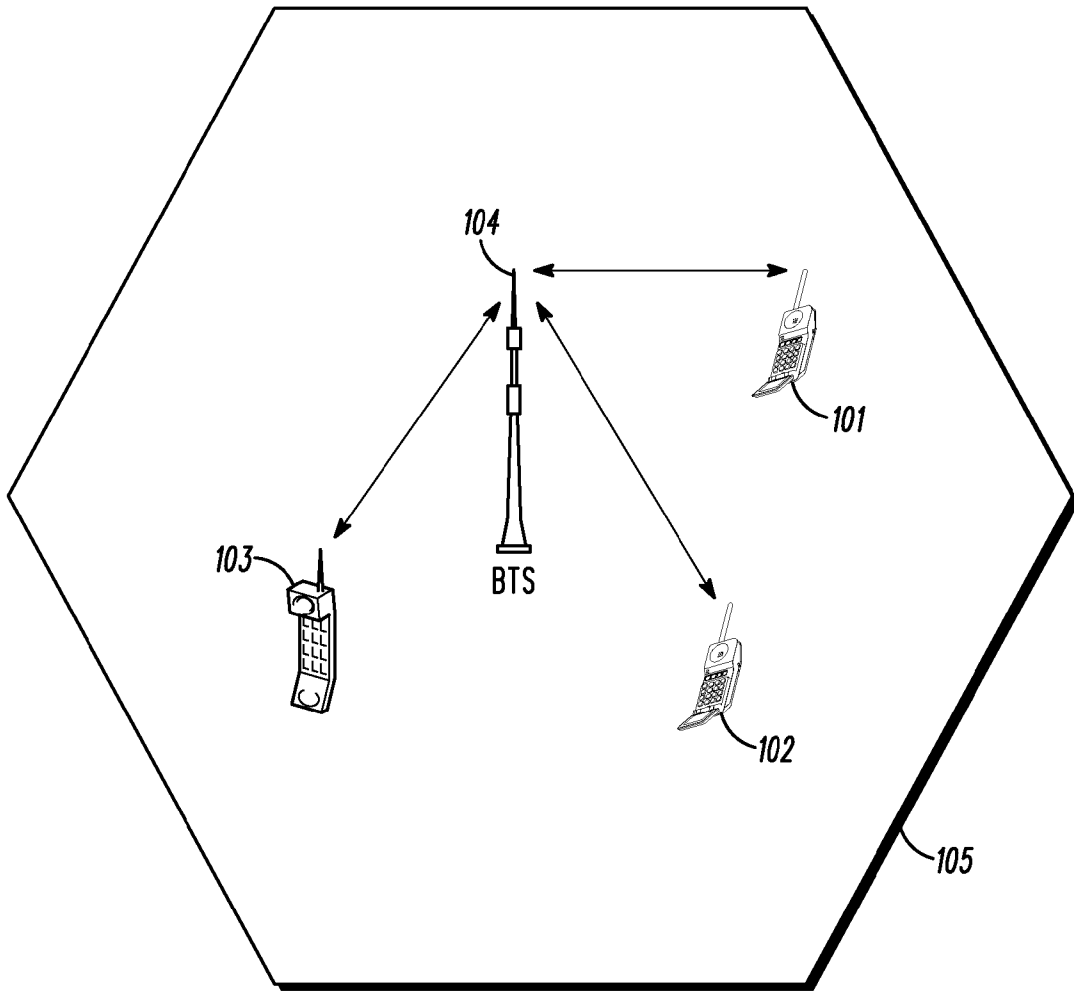
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(57) **ABSTRACT**

During operation radio frames are divided into a plurality of subframes. Data is transmitted over the radio frames within a plurality of subframes, and having a frame duration selected from two or more possible frame durations.

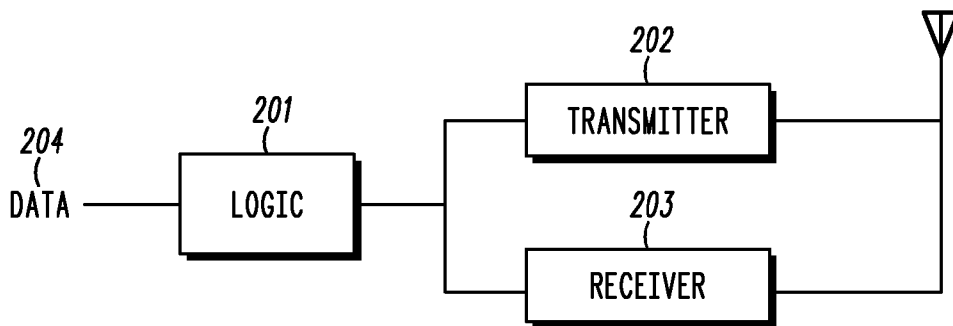
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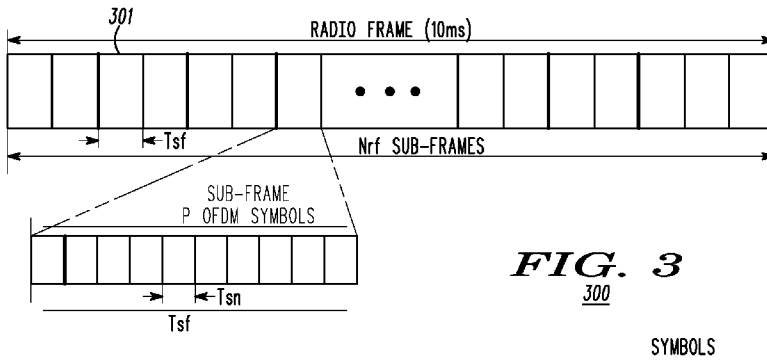
**FIG. 1**

100



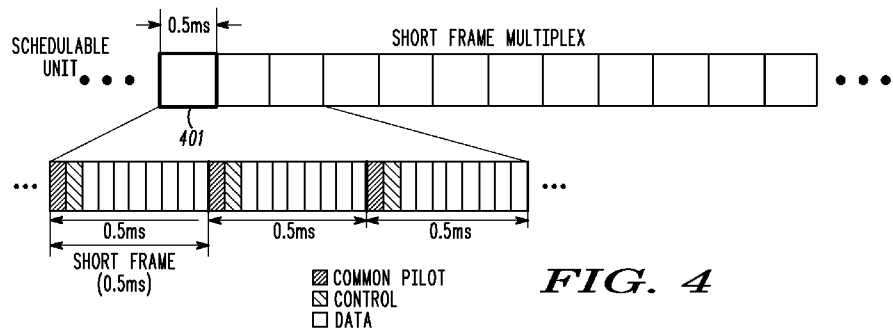
**FIG. 2**

200



**FIG. 3**  
**300**

SYMBOLS



**FIG. 4**

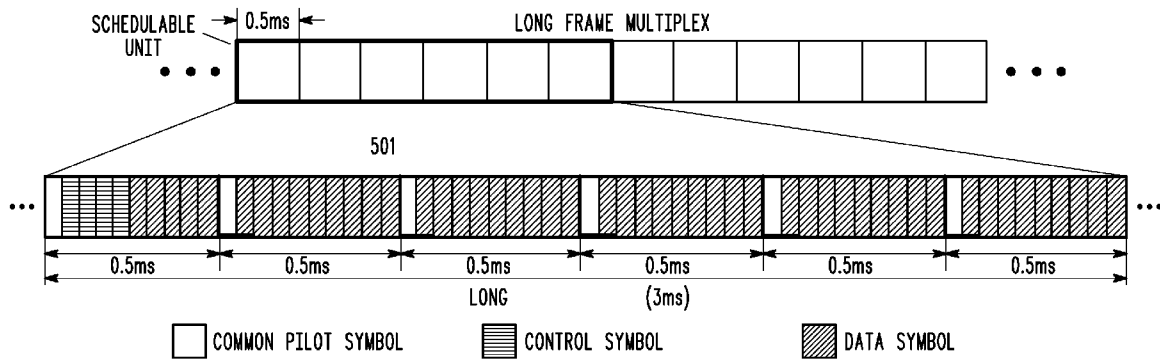
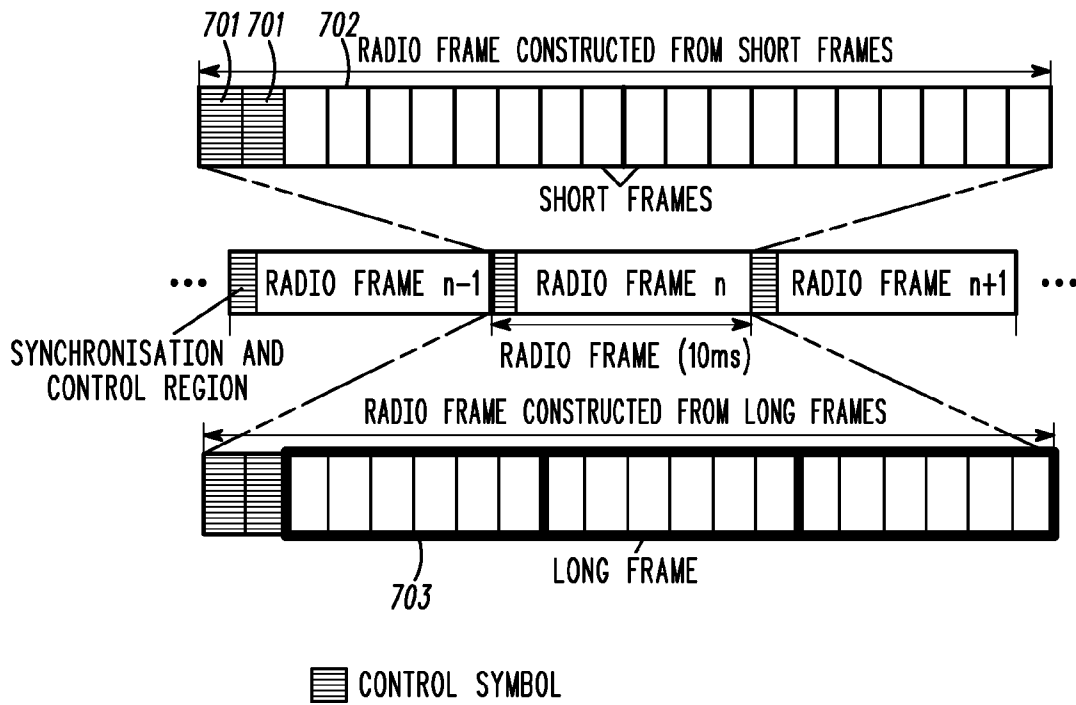


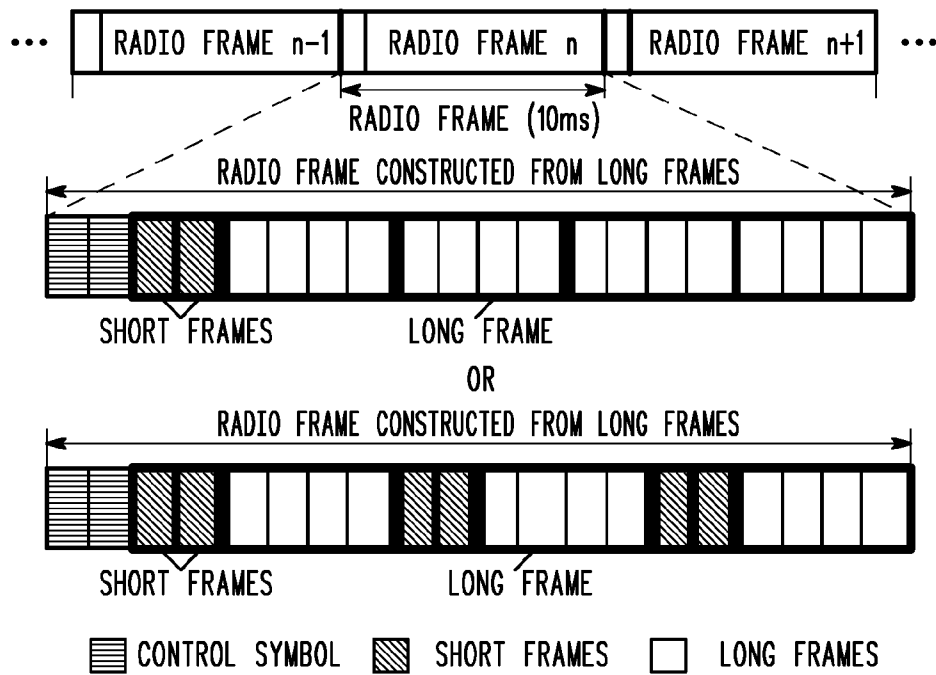
FIG. 5

PARAMETER	LONG FRAME CONFIGURATION												
	10	10	10	10	10	10	10	10	10	10	10	10	10
RADIO FRAME DURATION (ms)	10	10	10	10	10	10	10	10	10	10	10	10	10
SUBFRAMES / RADIO FRAME	20	20	20	18	18	18	16	16	16	15	15	15	15
SUBFRAME DURATION (ms)	0.5	0.5	0.5	0.55556	0.55556	0.55556	0.625	0.625	0.625	0.66667	0.66667	0.66667	0.66667
SUBFRAMES / LONG FRAME	3	4	6	4	5	6	3	4	5	3	4	5	5
LONG FRAME DURATION (ms)	1.5	2	3	2.22222	2.77778	3.33333	1.875	2.5	3.125	2	2.66667	3.33333	3.33333
OVERHEAD SUBFRAMES	2	2	2	2	2	2	2	2	2	2	2	2	2
MAX LONG / RADIO FRAME	6	4	3	4	3	2	4	3	2	4	3	2	2
MIN SHORT RADIO FRAME	0	2	0	0	1	4	2	2	4	1	1	3	3

FIG. 6 EXEMPLARY LONG FRAME CONFIGURATIONS vs. SUBFRAME DURATION



**FIG. 7**



**FIG. 8**

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