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

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Related U.S. Application Data

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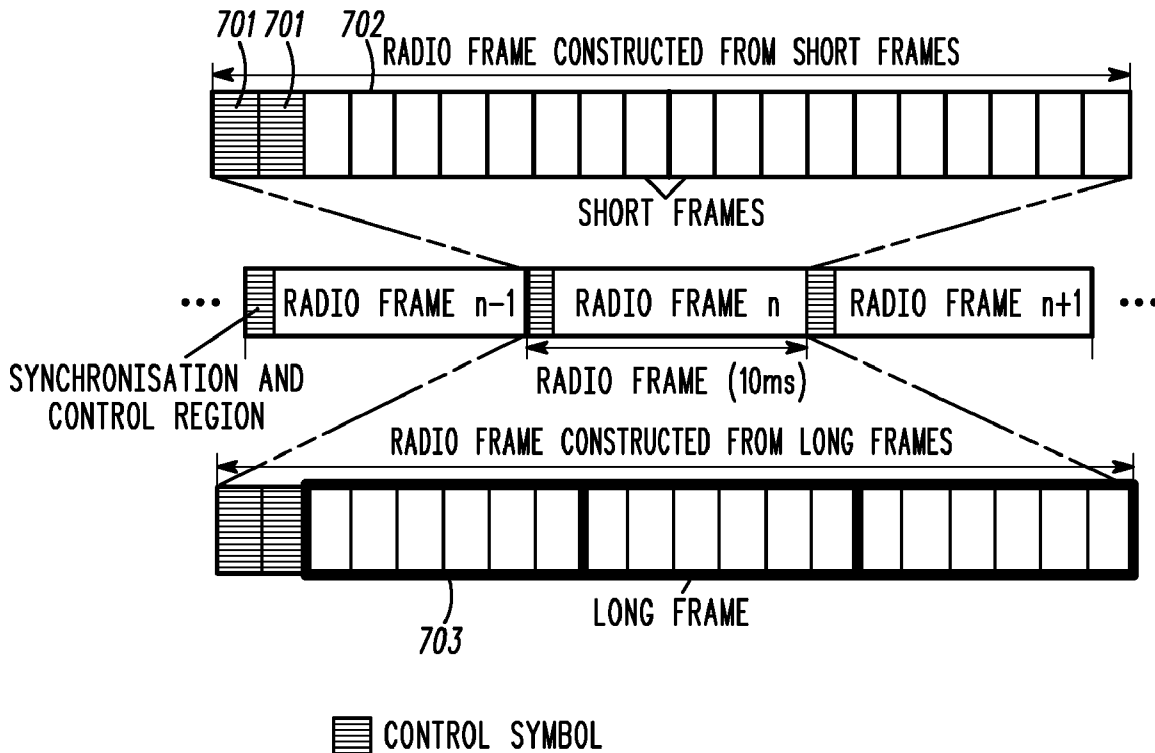
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(52) **U.S. Cl.** 370/347; 370/337; 709/236

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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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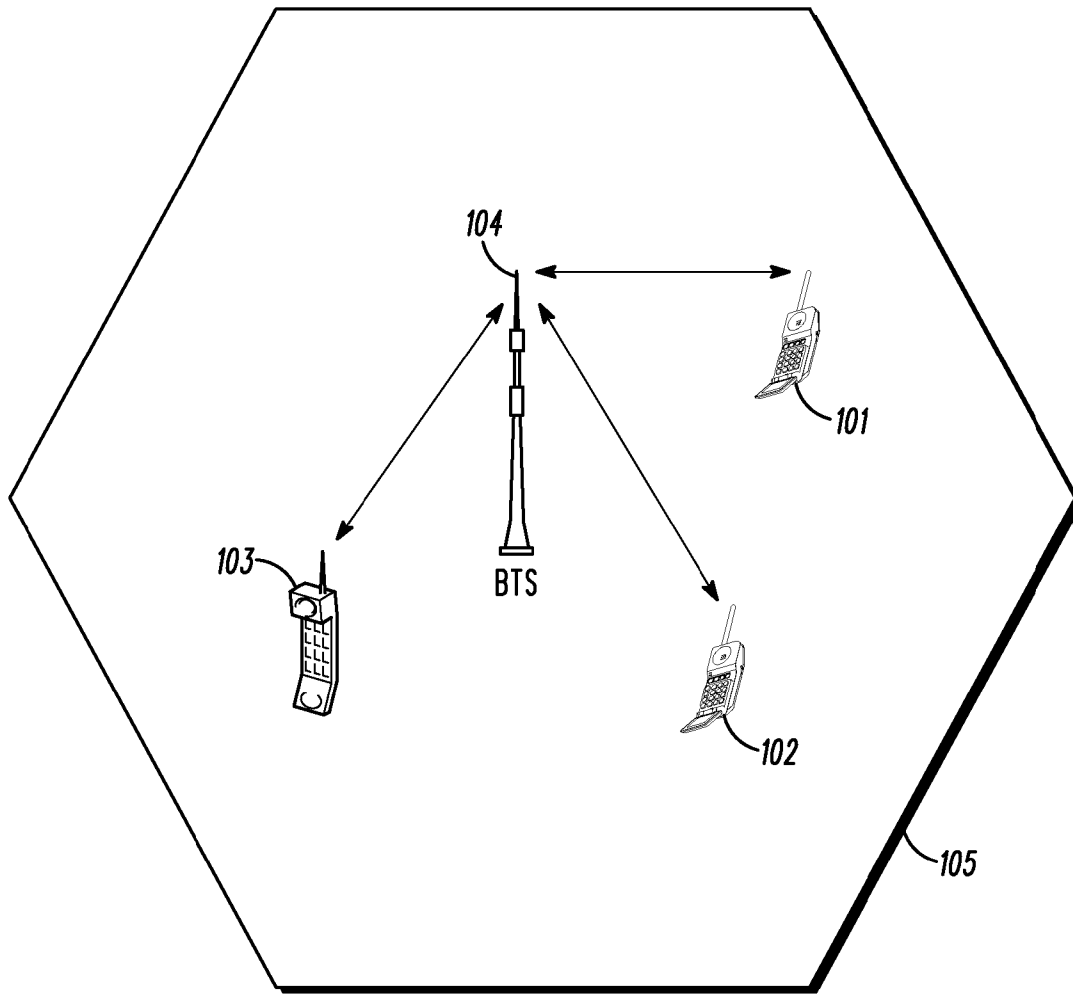


FIG. 1
100

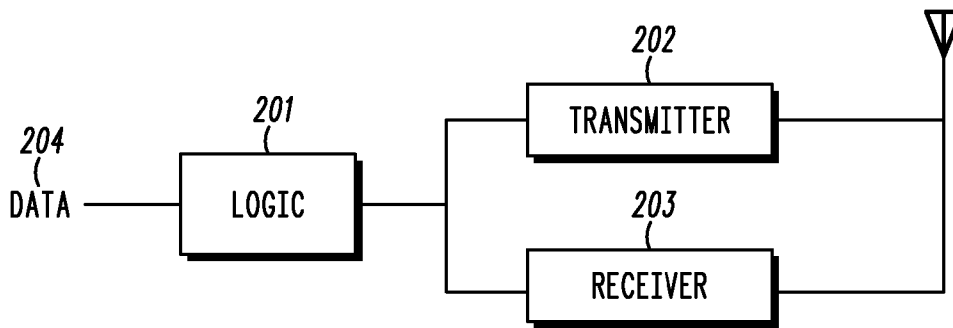


FIG. 2

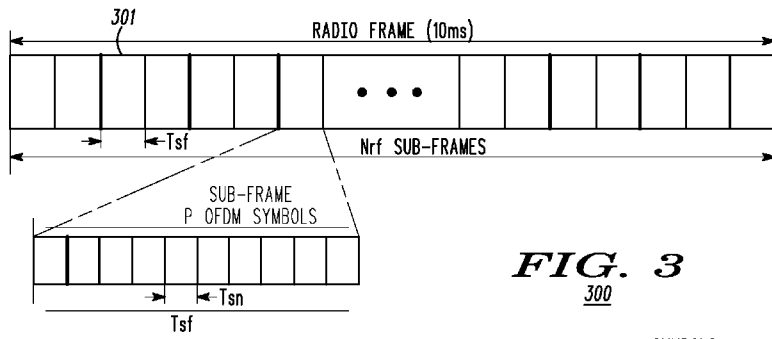


FIG. 3
300

SYMBOLS

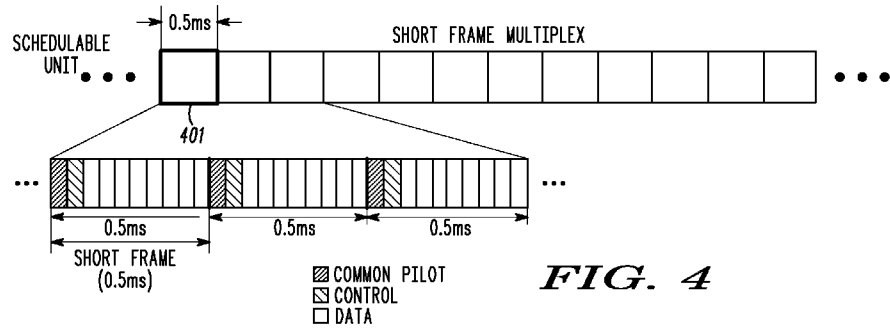


FIG. 4

COMMON PILOT
CONTROL
DATA

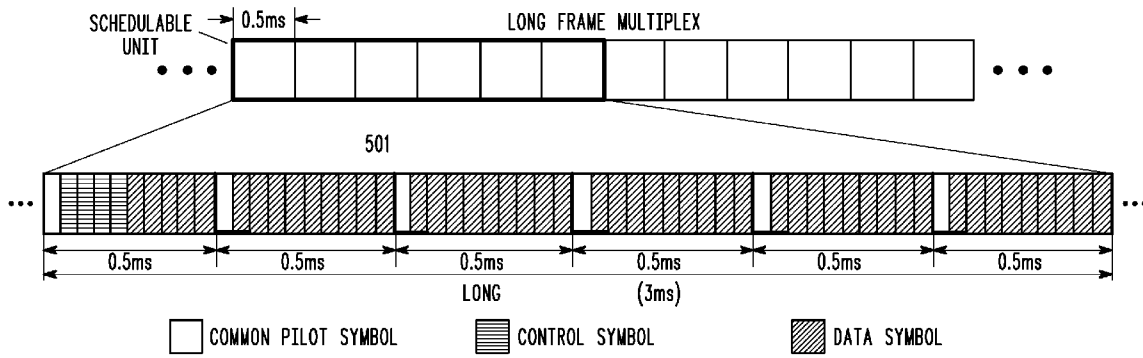


FIG. 5

PARAMETER	LONG FRAME CONFIGURATION											
	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
SUBFRAMES / RADIO FRAME	20	20	20	18	18	18	16	16	16	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
SUBFRAMES / LONG FRAME	3	4	6	4	5	6	3	4	5	3	4	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
OVERHEAD SUBFRAMES	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
MIN SHORT RADIO FRAME	0	2	0	0	1	4	2	2	4	1	1	3

FIG. 6 EXEMPLARY LONG FRAME CONFIGURATIONS vs. SUBFRAME DURATION

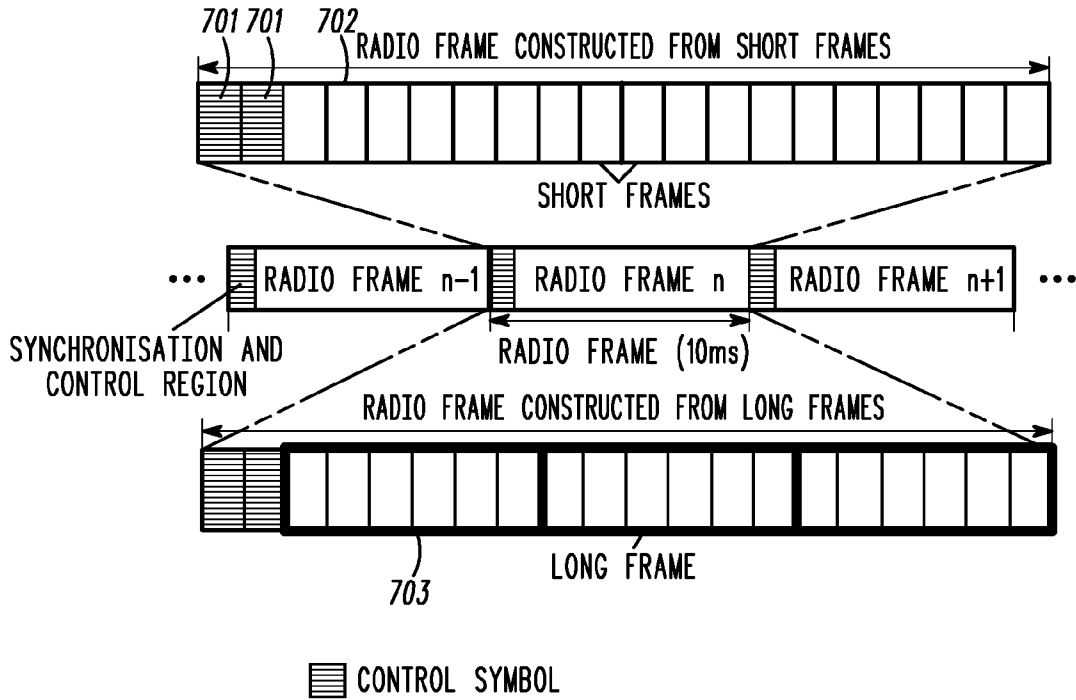


FIG. 7

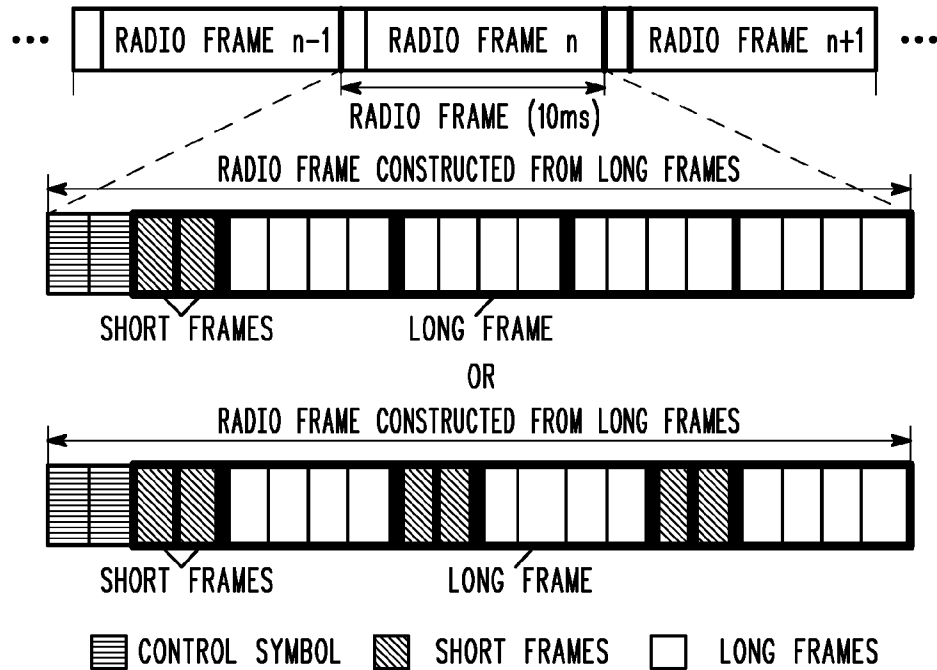


FIG. 8

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