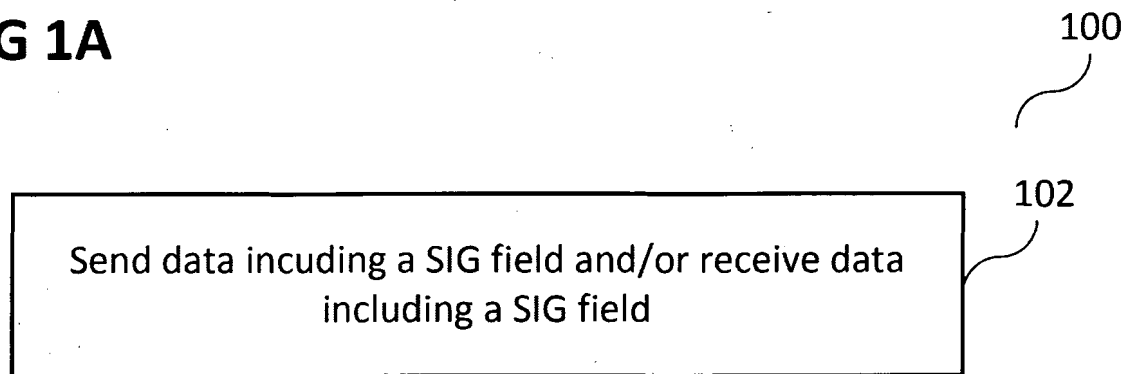
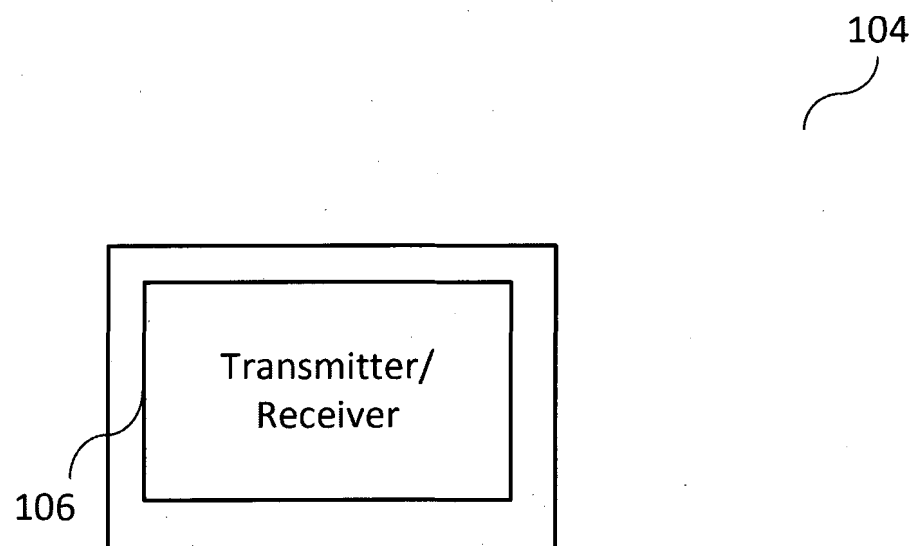
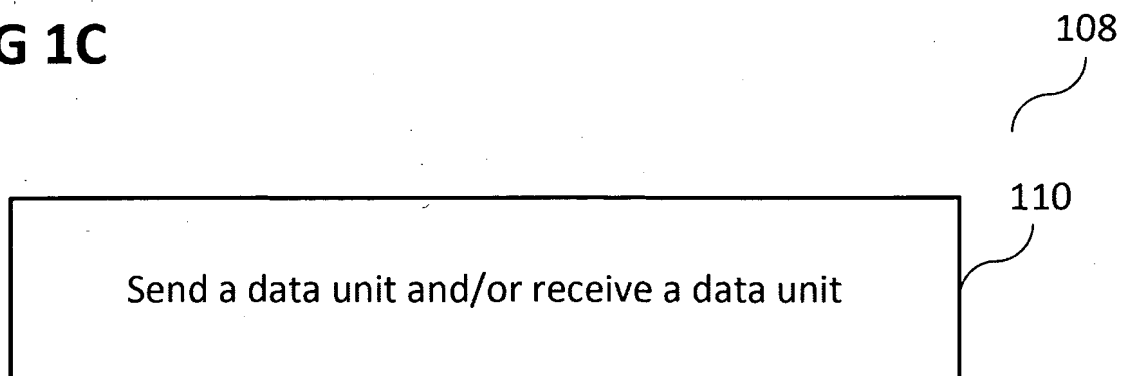


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**FIG 1A****FIG 1B****FIG 1C**

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FIG 2

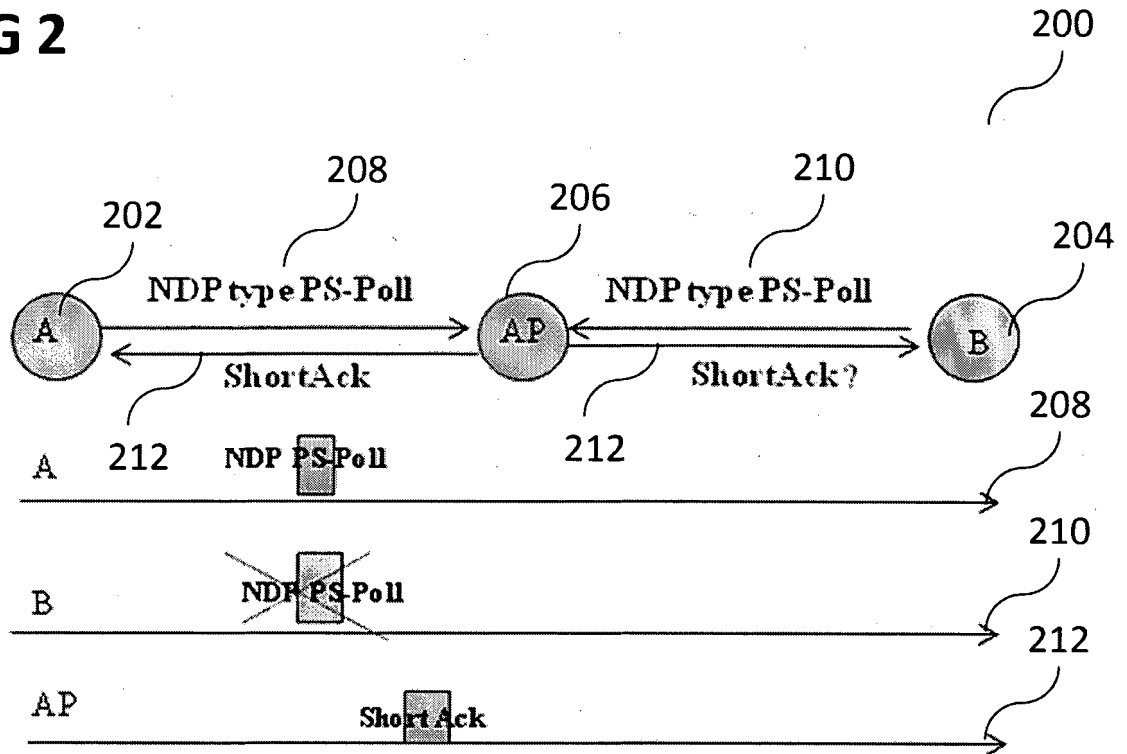
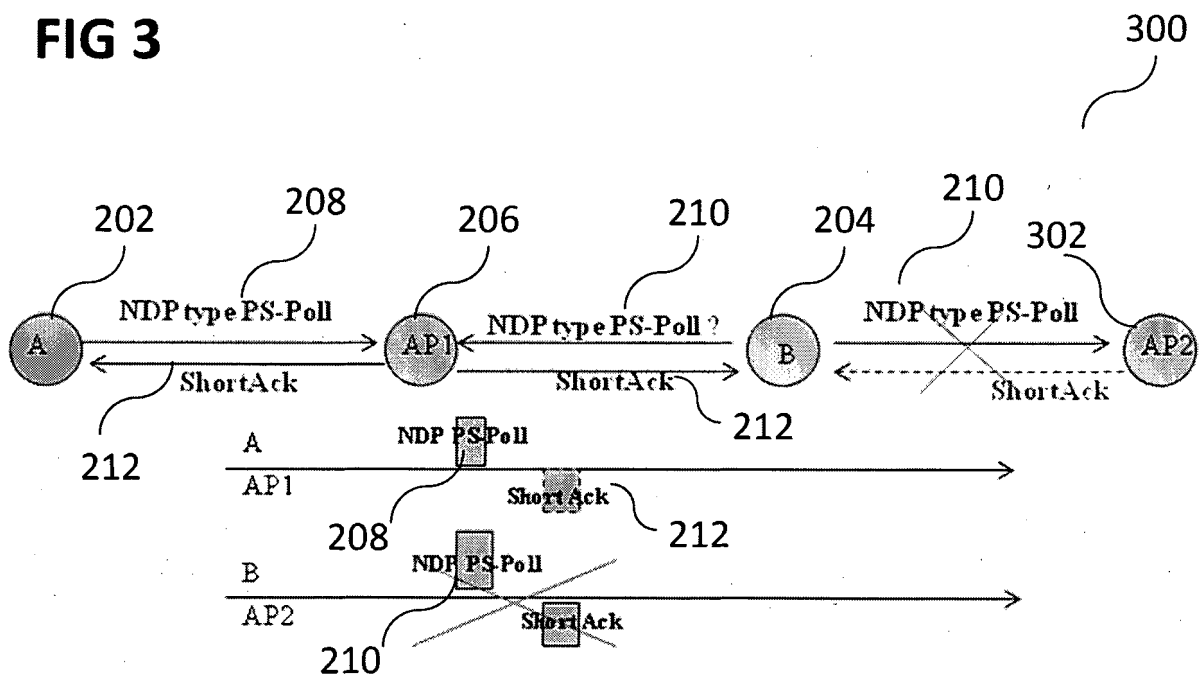


FIG 3



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FIG 4

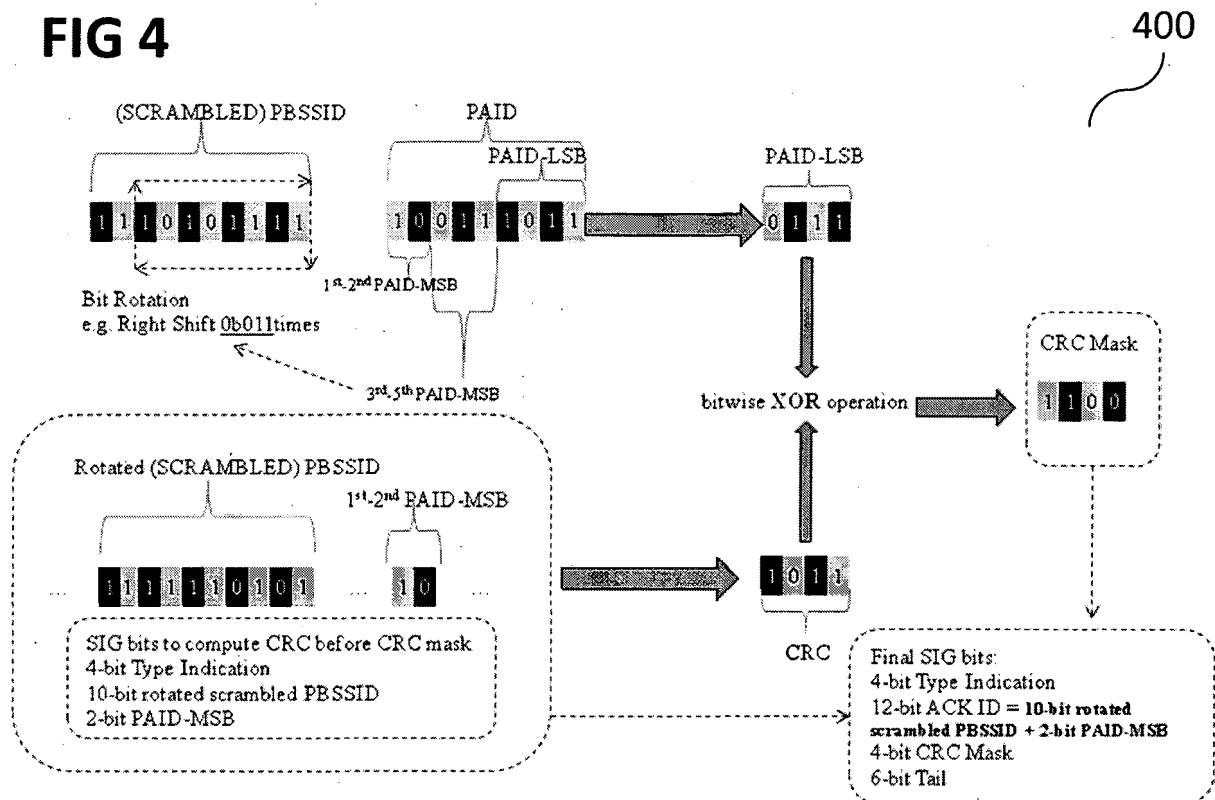
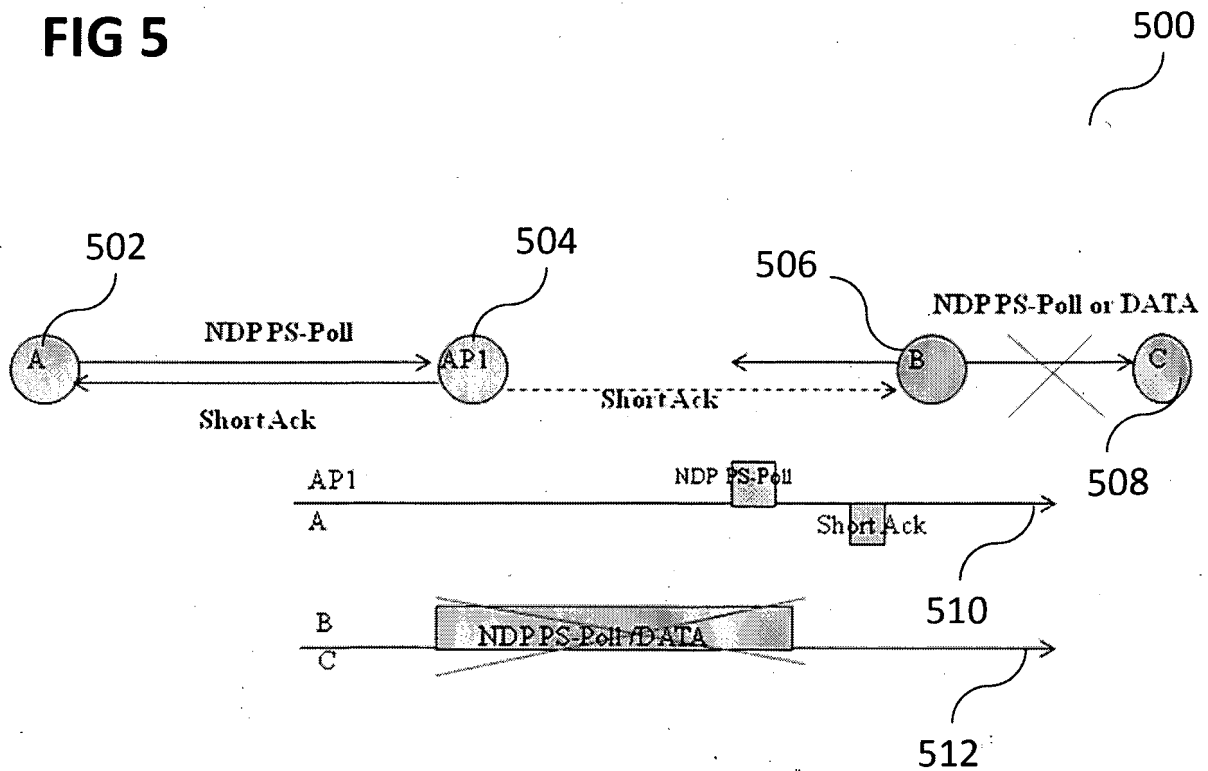


FIG 5



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FIG 6

600

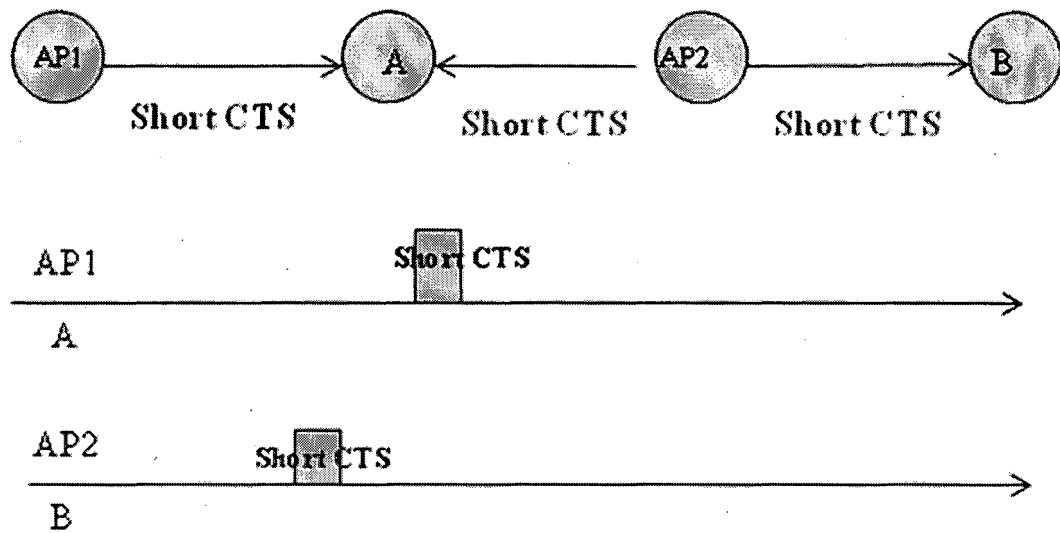
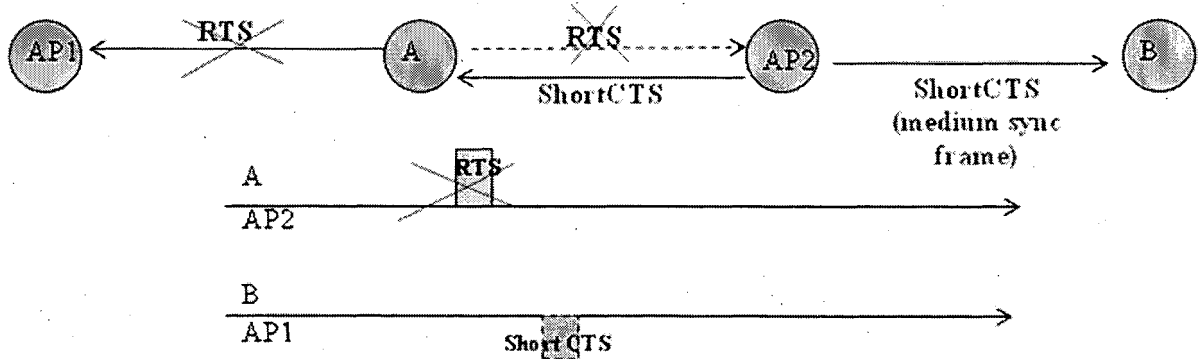


FIG 7

700



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FIG 8

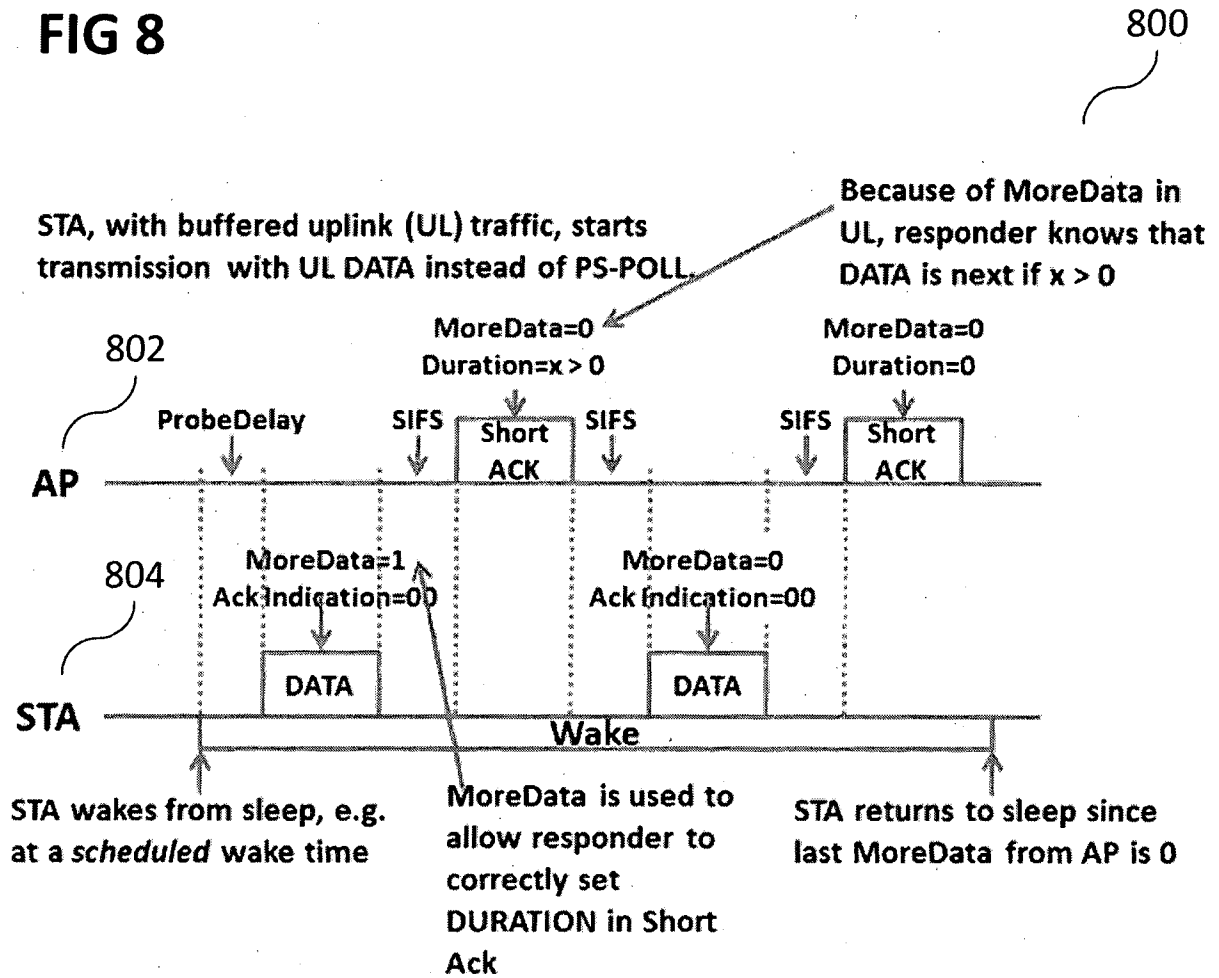


FIG 9

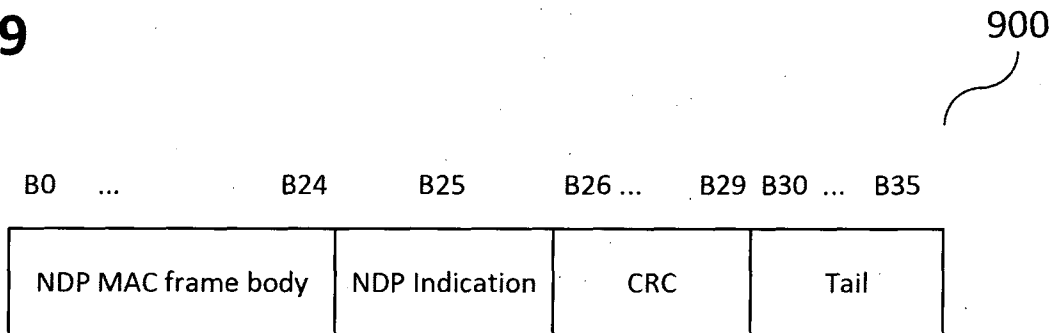
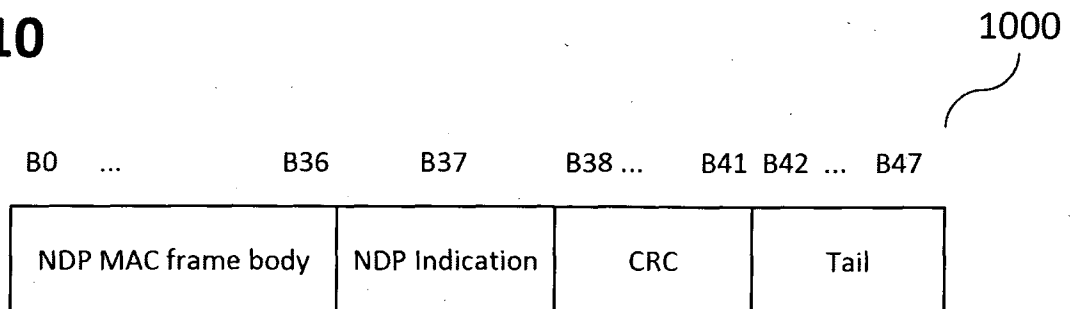


FIG 10



**FIG 11**

1100

**AP and STA have unequal number of UL and DL DATA frames.**

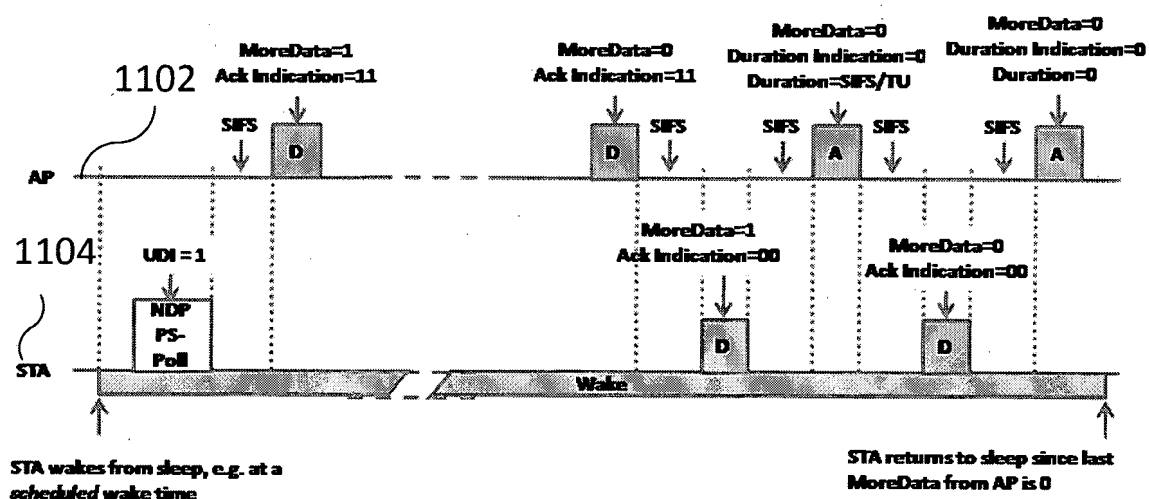
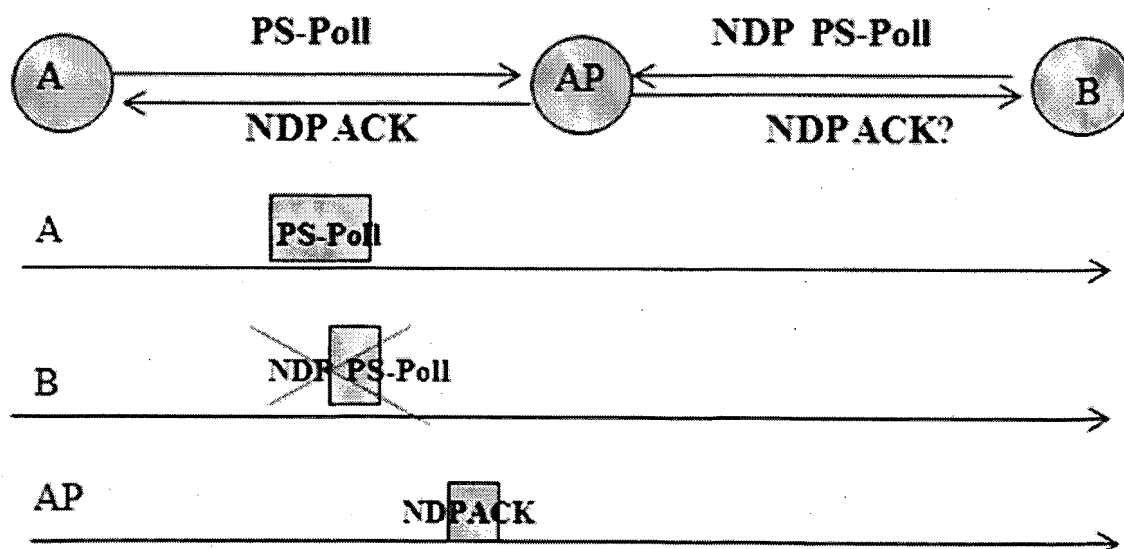


FIG 12

1200



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FIG 13

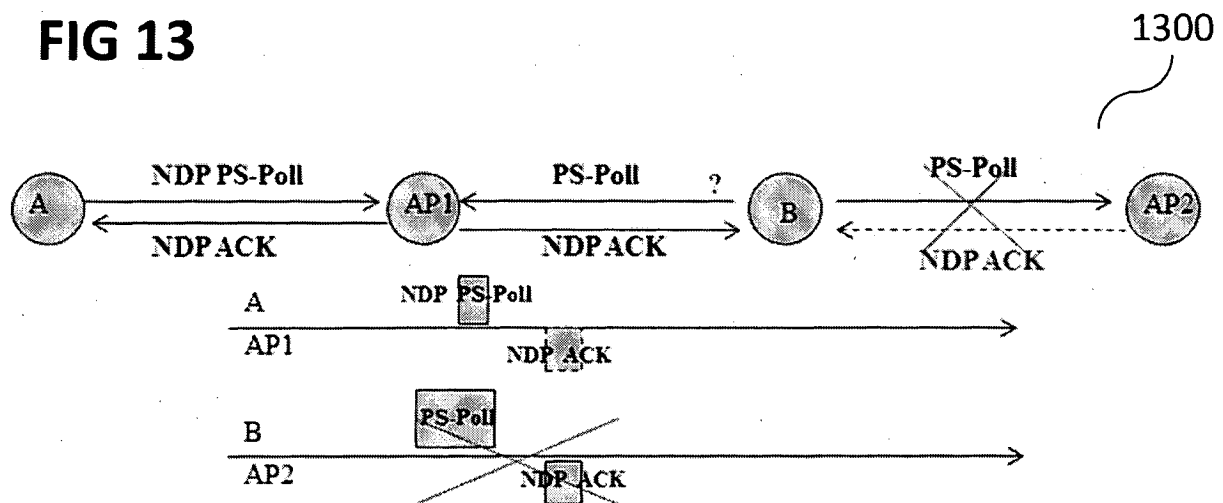
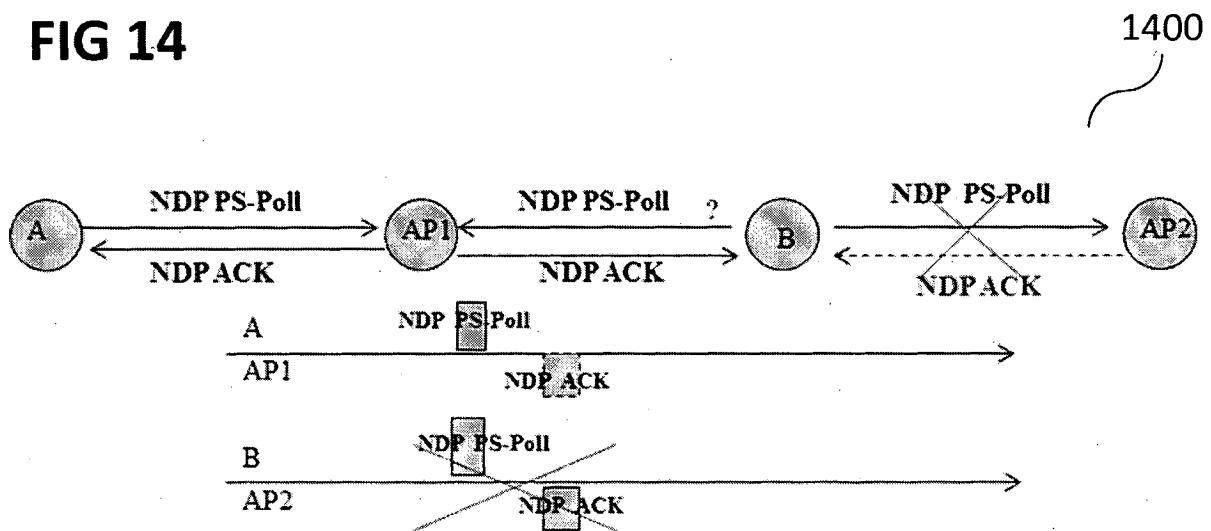


FIG 14



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FIG 15

1500

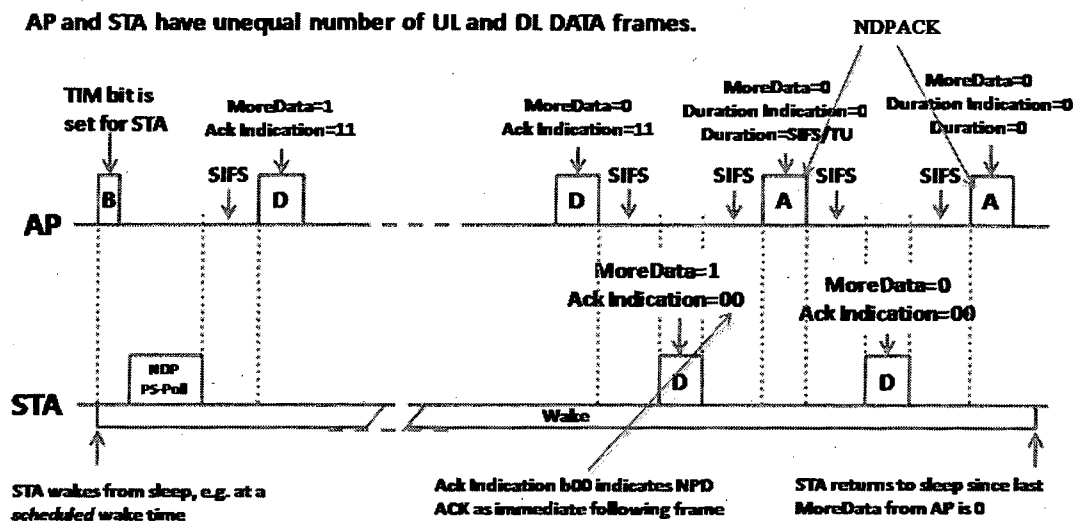
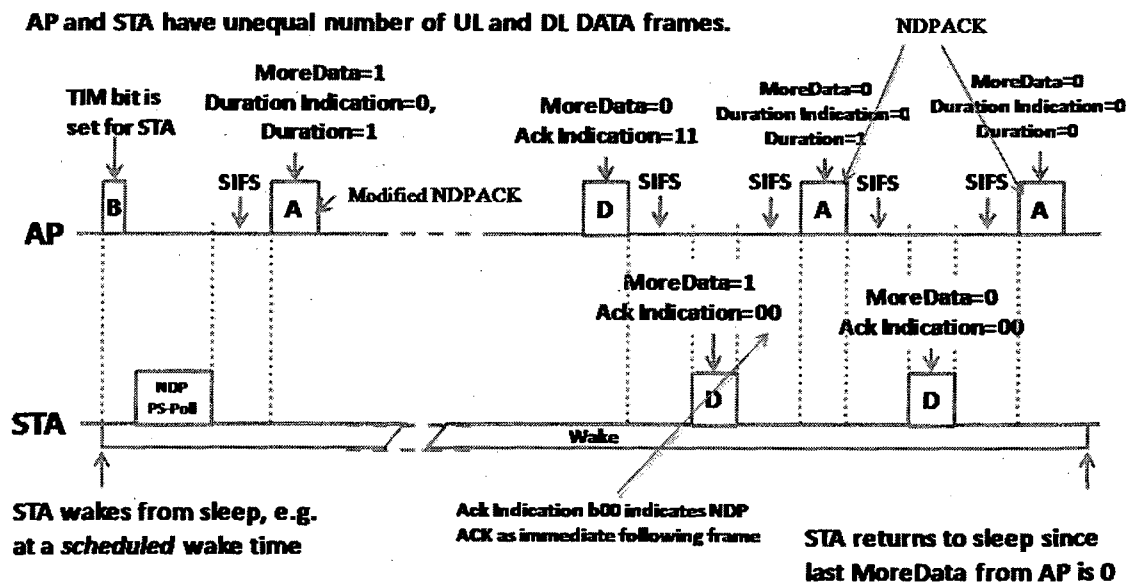


FIG 16

1600



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FIG 17

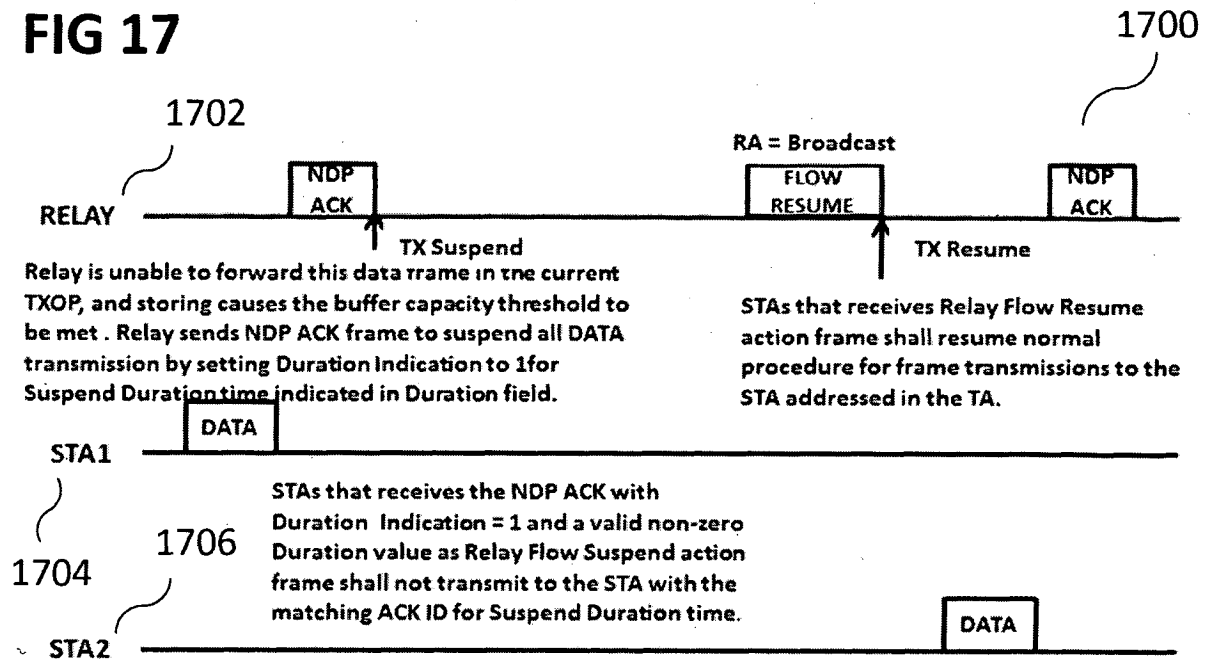
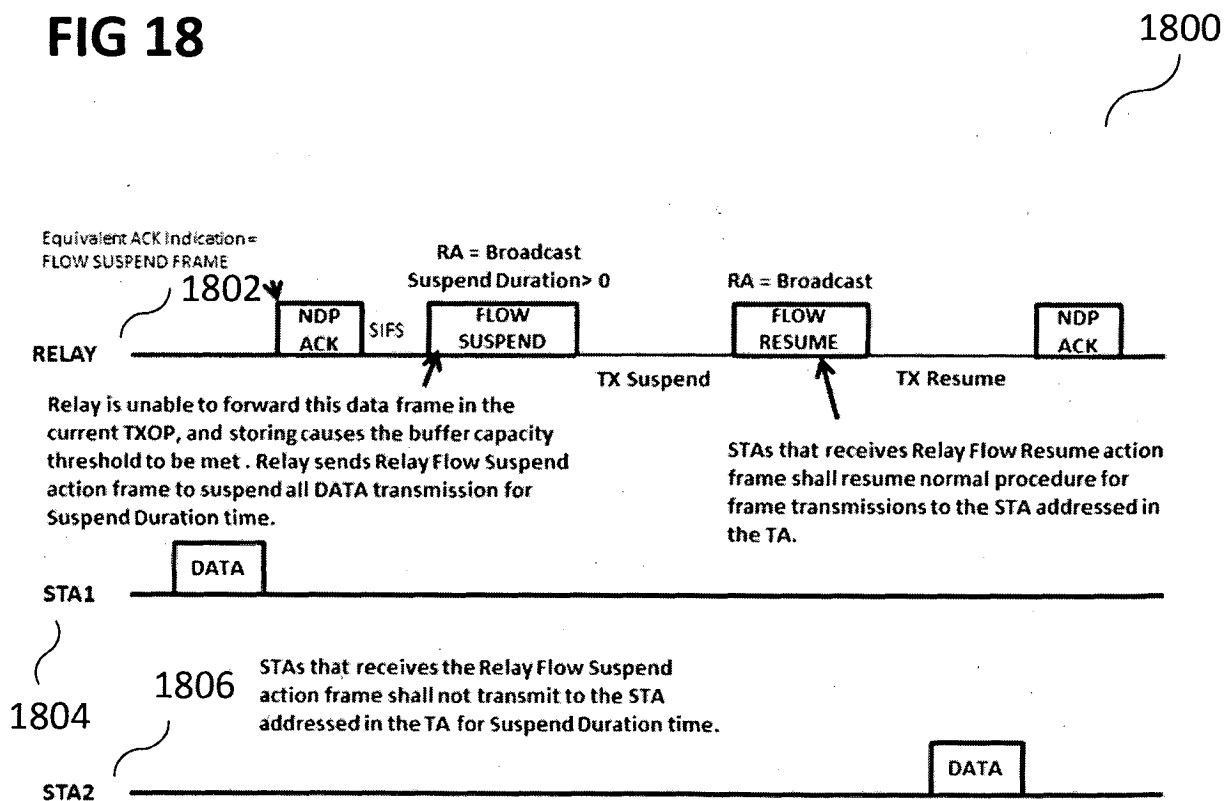


FIG 18



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FIG 19

1900

AP sends downlink DATA frame with ACK  
Indication bits set to 10 to relay

1902

ACK Indication=10  
Aggregation=0

After receipt of ACK, AP removes frame from buffer,  
and defers RELAYED DATA DURATION + ACK + 2\*SIFS  
before next event

AP

SIFS

Relay sends ACK, and set ACK Indication  
bits to 11 for next outgoing frame

ACK

ACK Indication=10  
Aggregation=0

DATA

RELAY

SIFS

SIFS

1904

In SIFS time, relay sends DATA with a different MCS and ACK  
Indication bits set to 10. Relay buffers frame until successful  
delivery or reaching of retry limit

1906

ACK

ACK Indication=00

ACK

STA

FIG 20

2000

2002

AP

AP sends NDP ACK, and set Duration  
Indication field to 0  
and Duration field set to 0

NDP  
ACK

Relay sends NDP ACK, and set Duration  
Indication field to 0 and Duration field set to X  
for next outgoing frame. X could be set to the  
value corresponding to the DATA duration time  
between RELAY and AP + NDP ACK + 2\*SIFS.

ACK Indication=01  
Aggregation=0

DATA

RELAY

SIFS

SIFS

2004

ACK  
Indication=01  
Aggregation=0

In SIFS time, relay sends DATA with a different MCS and ACK  
Indication bits set to 01(NDP Response). Relay buffers frame until  
successful delivery or reaching of retry limit

2006

DATA

STA

SIFS

STA sends uplink DATA frame with ACK Indication  
bits set to 01(NDP response) to relay

After receipt of NDP ACK, STA removes frame from buffer,  
and defers  $X*TU + SIFS$  before next event

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FIG 21

2100

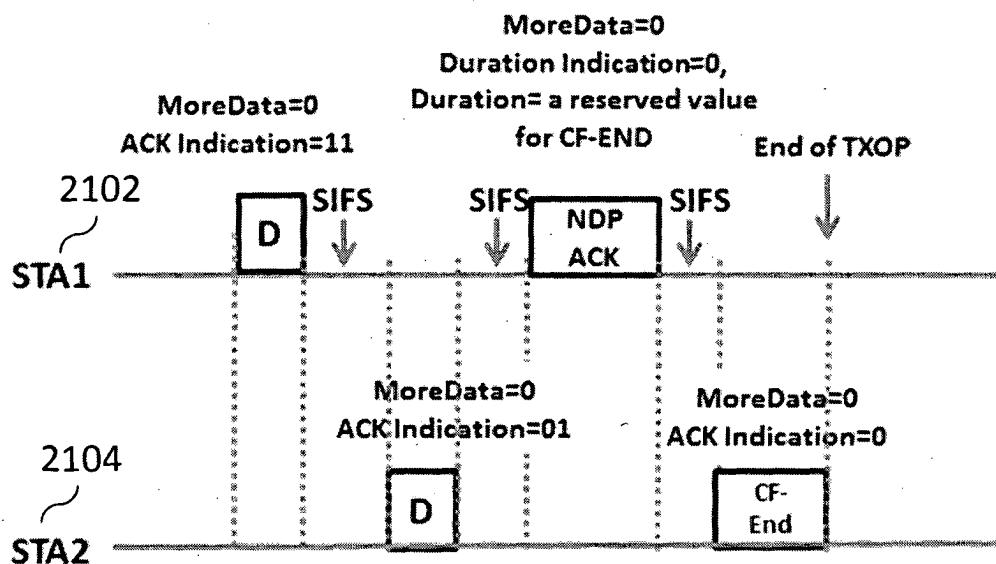
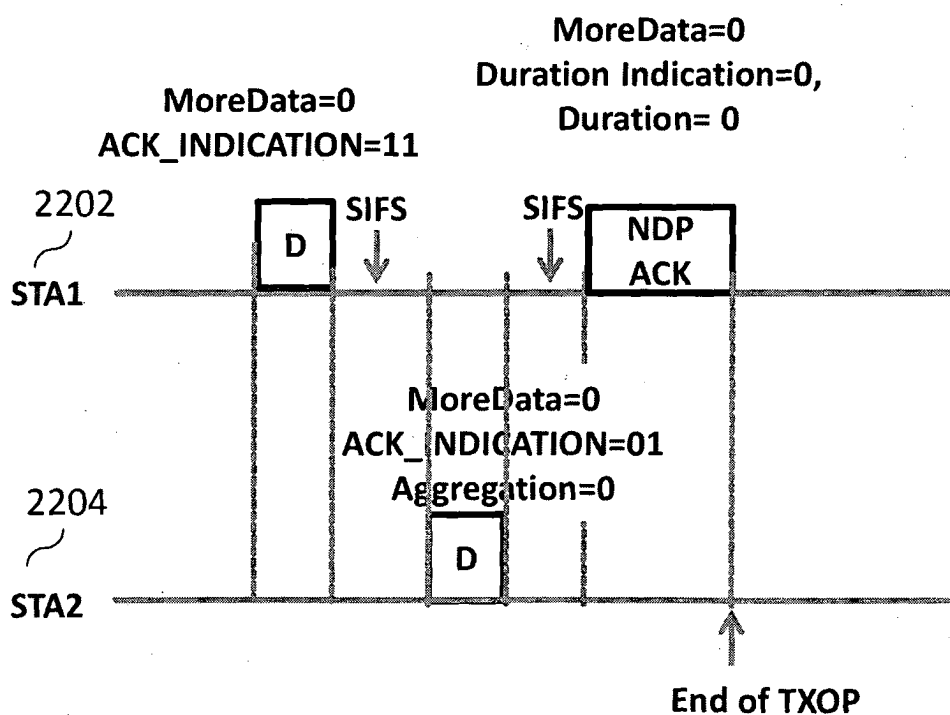


FIG 22

2200



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FIG 23

2300

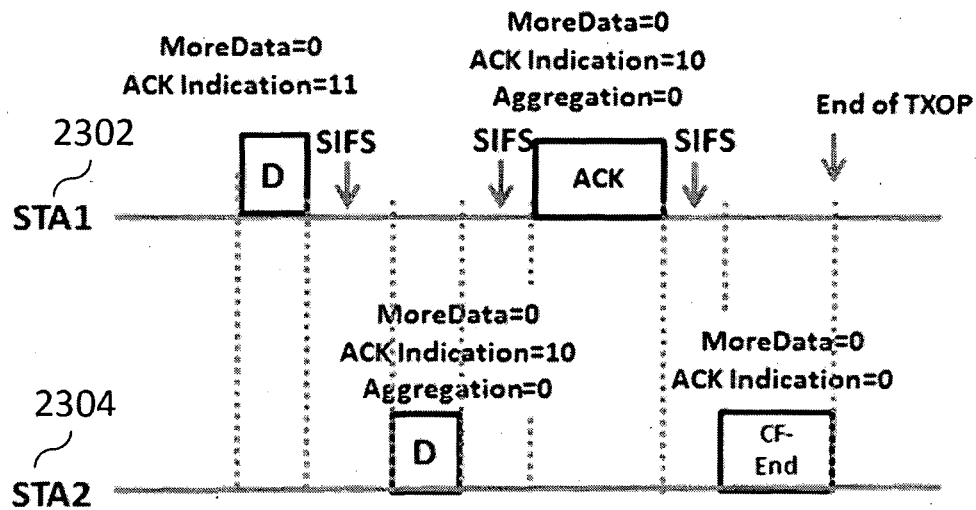
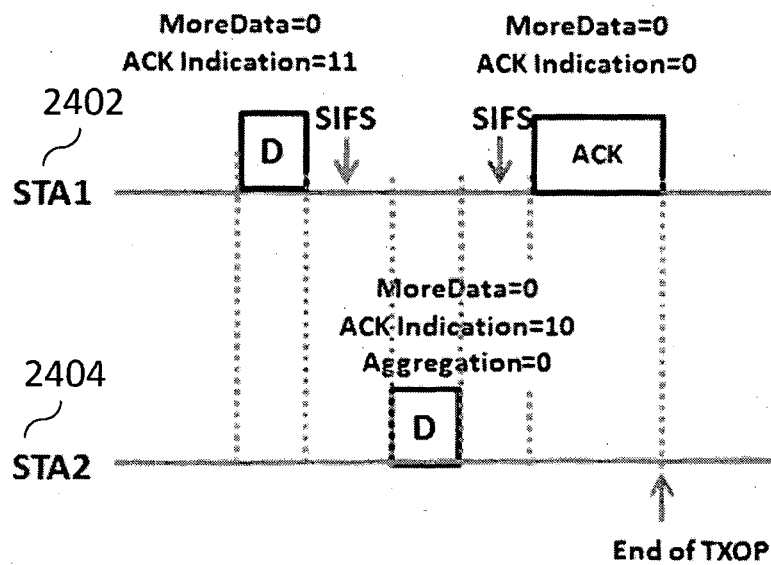


FIG 24

2400





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FIG 27

2700

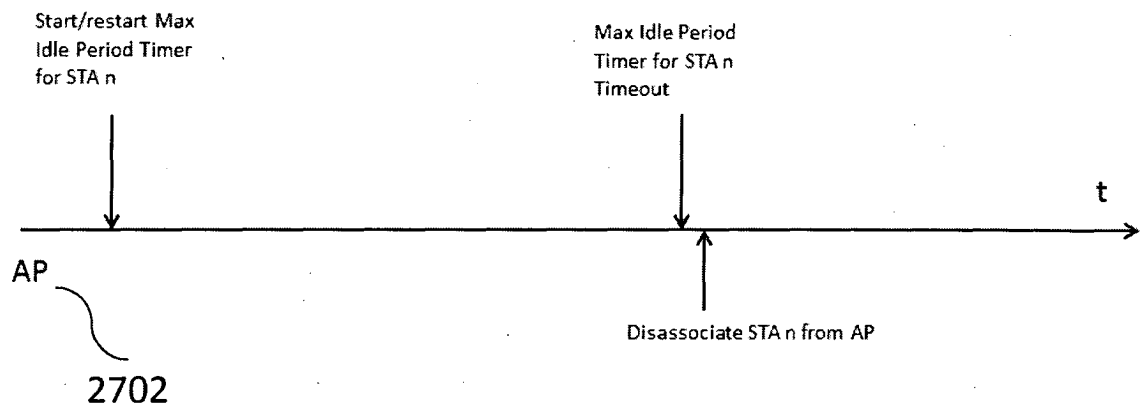
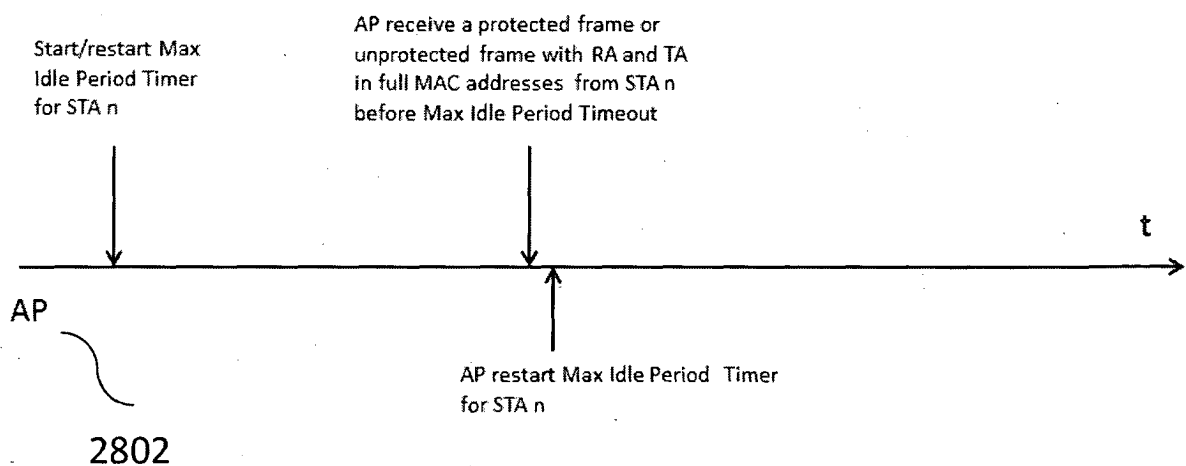


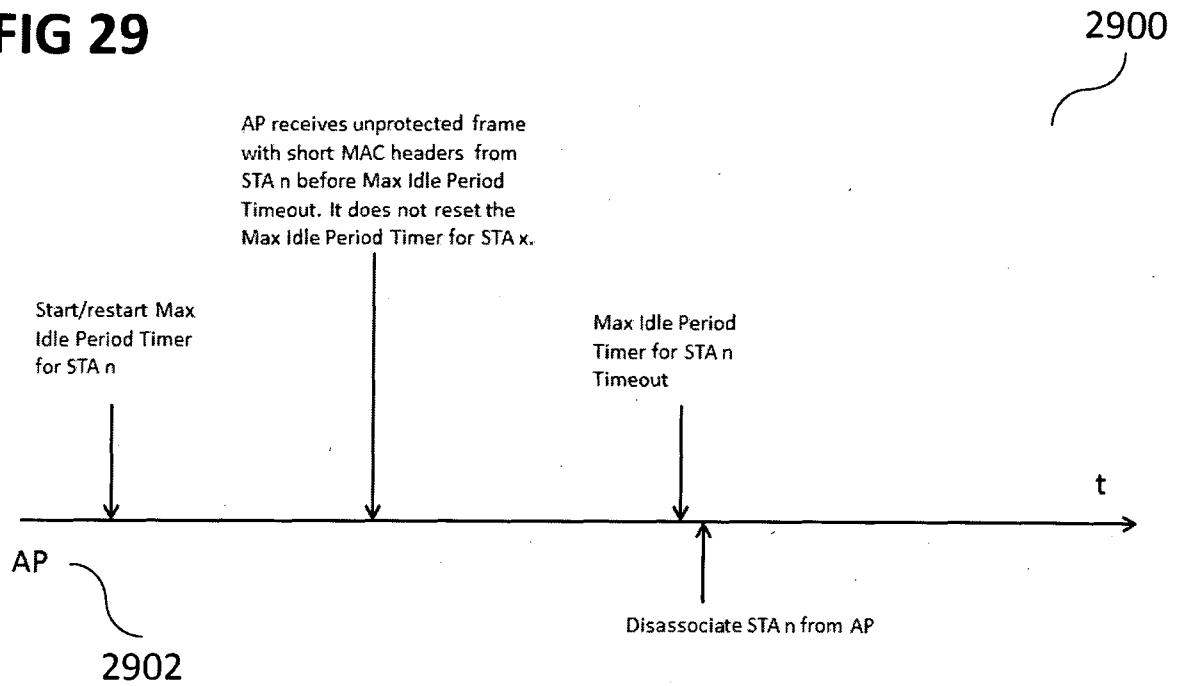
FIG 28

2800



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FIG 29



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FIG 30

3000

