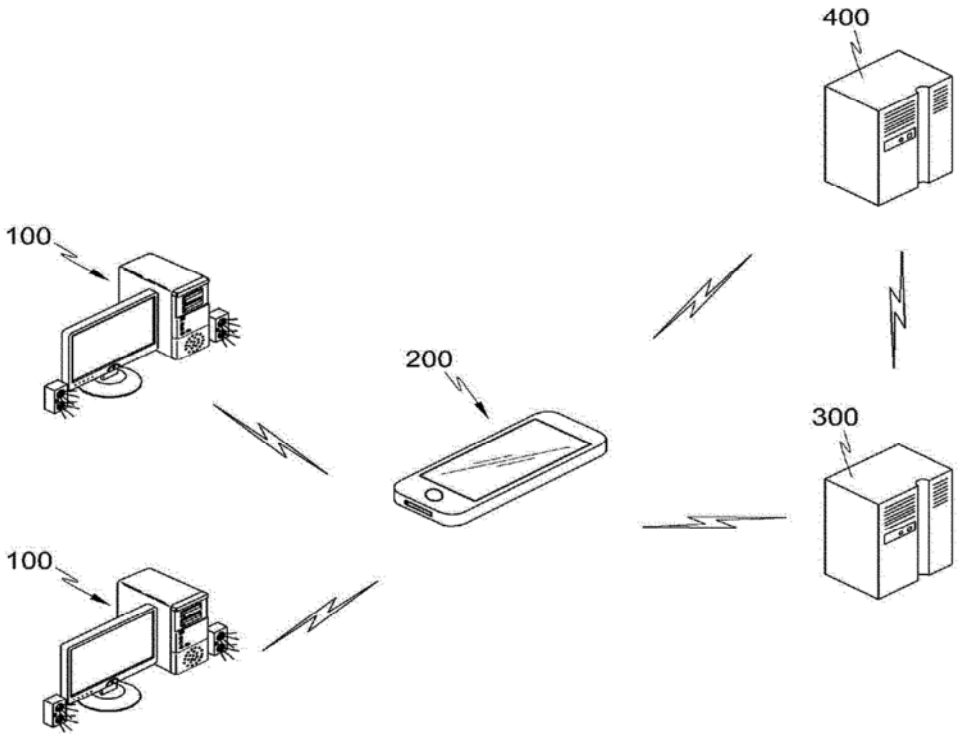
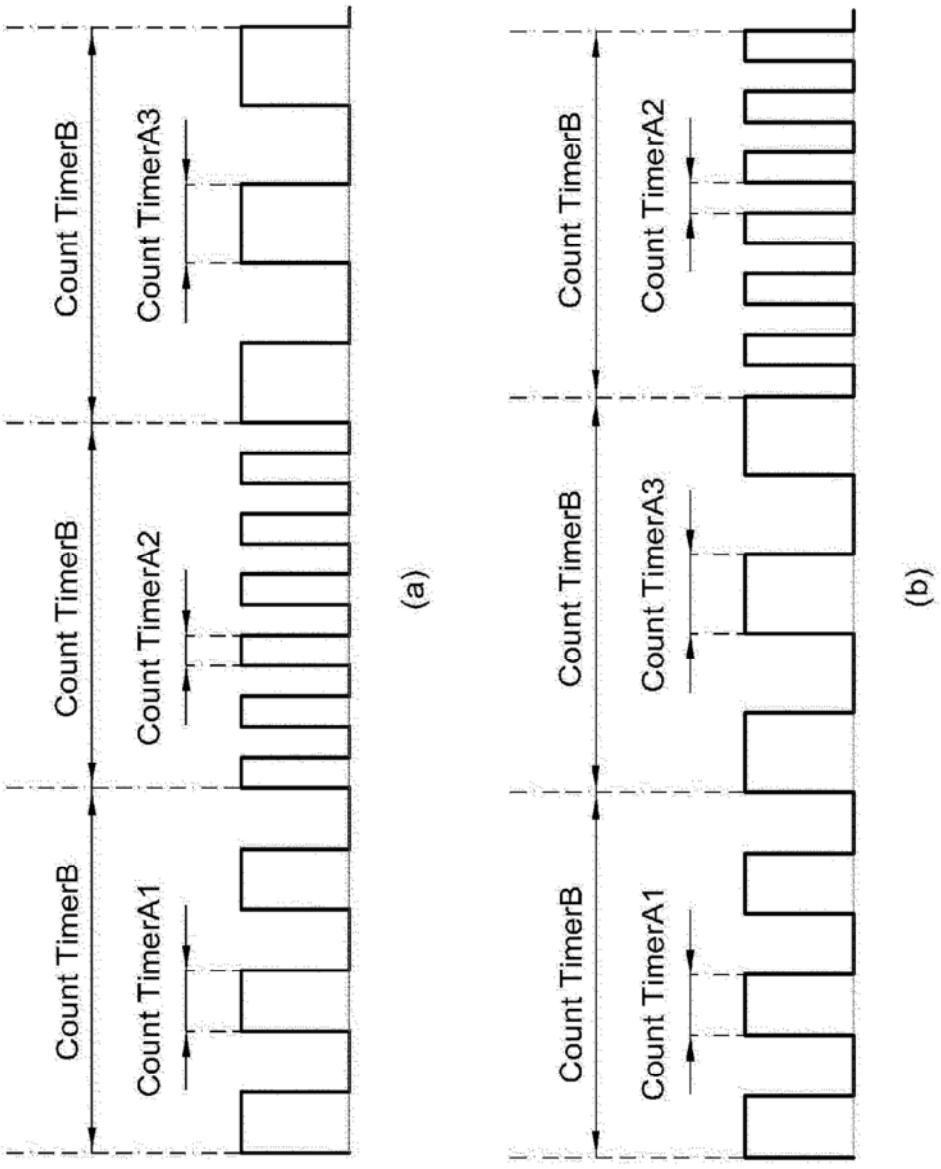
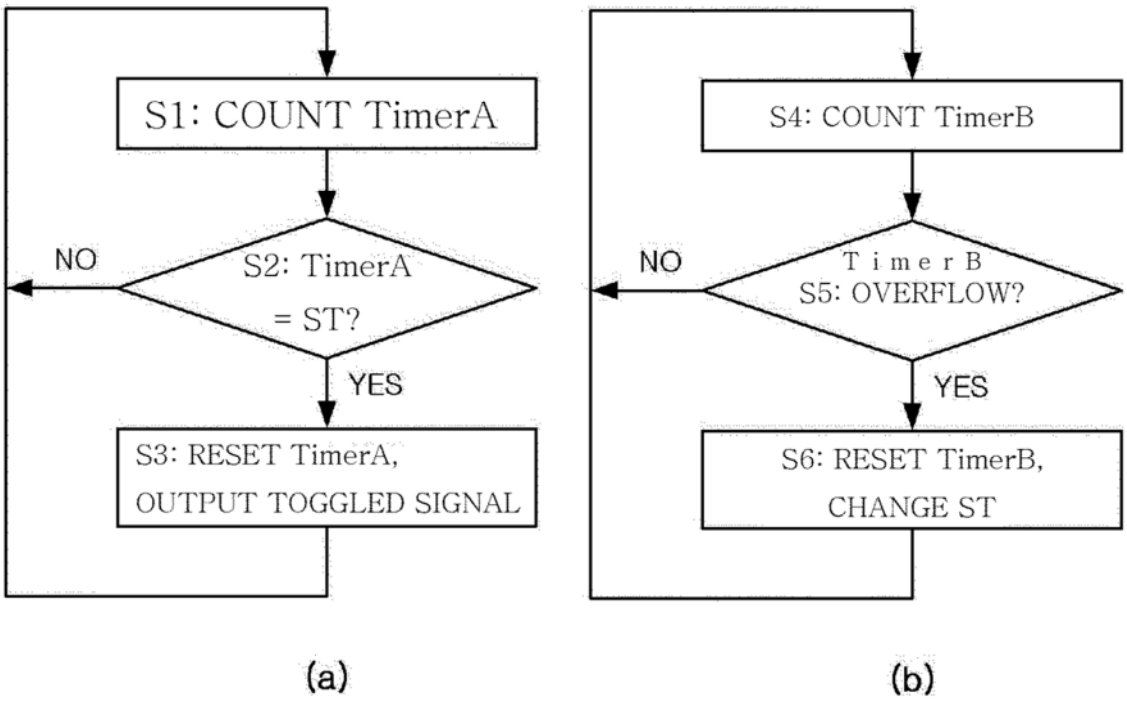
[Fig. 1]



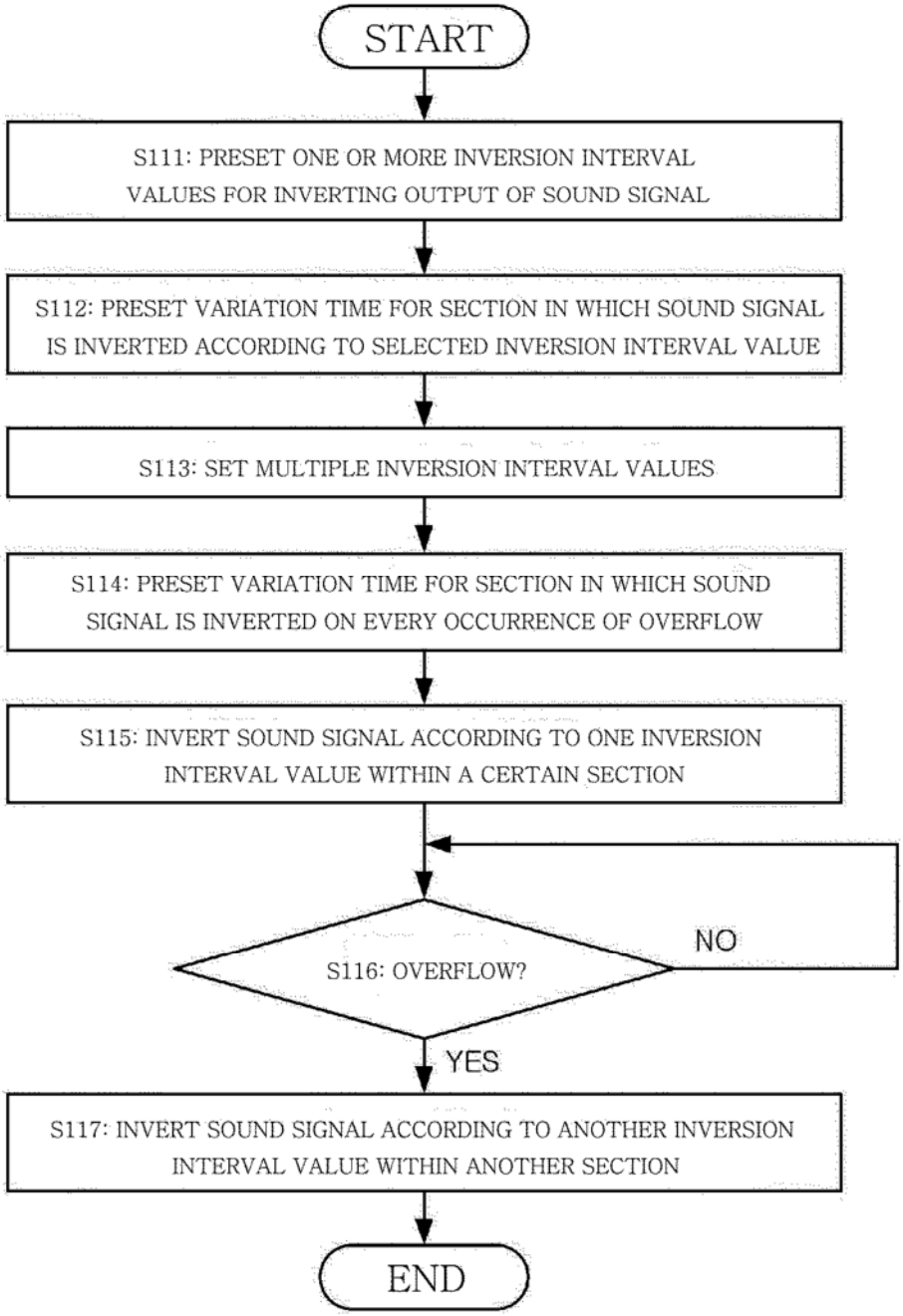
[Fig. 2]


Count TimerB
Count TimerA1
Count TimerB
Count TimerA2
Count TimerB
Count TimerA3
(a)
Count TimerB
Count TimerA1
Count TimerB
Count TimerA3
Count TimerB
Count TimerA2
(b)

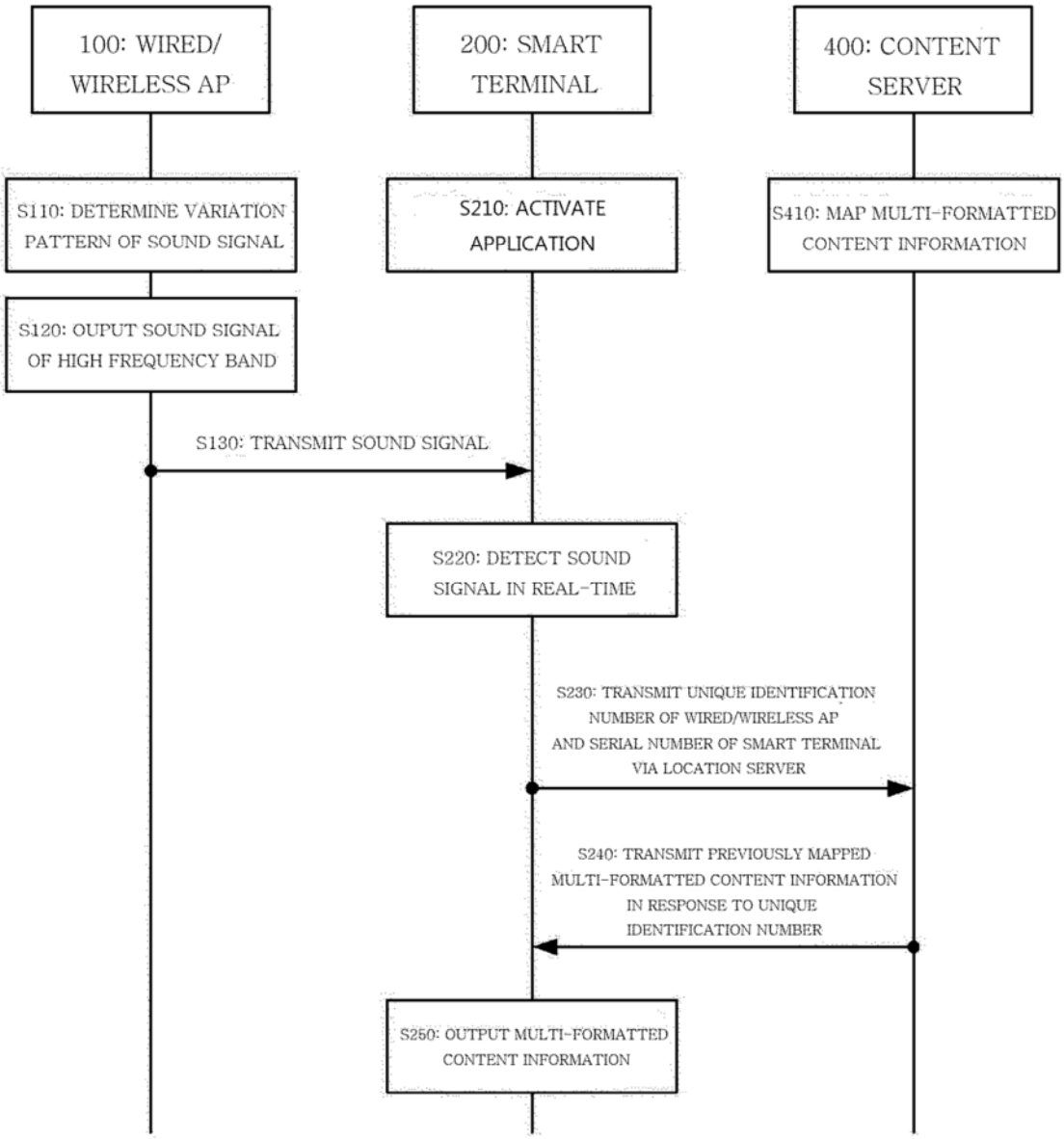
[Fig. 3]


S1: COUNT TimerA
NO
S2: TimerA = ST?
YES
S3: RESET TimerA, OUTPUT TOGGLED SIGNAL
(a)
S4: COUNT TimerB
NO
Timer B S5: OVERFLOW?
YES
S6: RESET TimerB, CHANGE ST
(b)

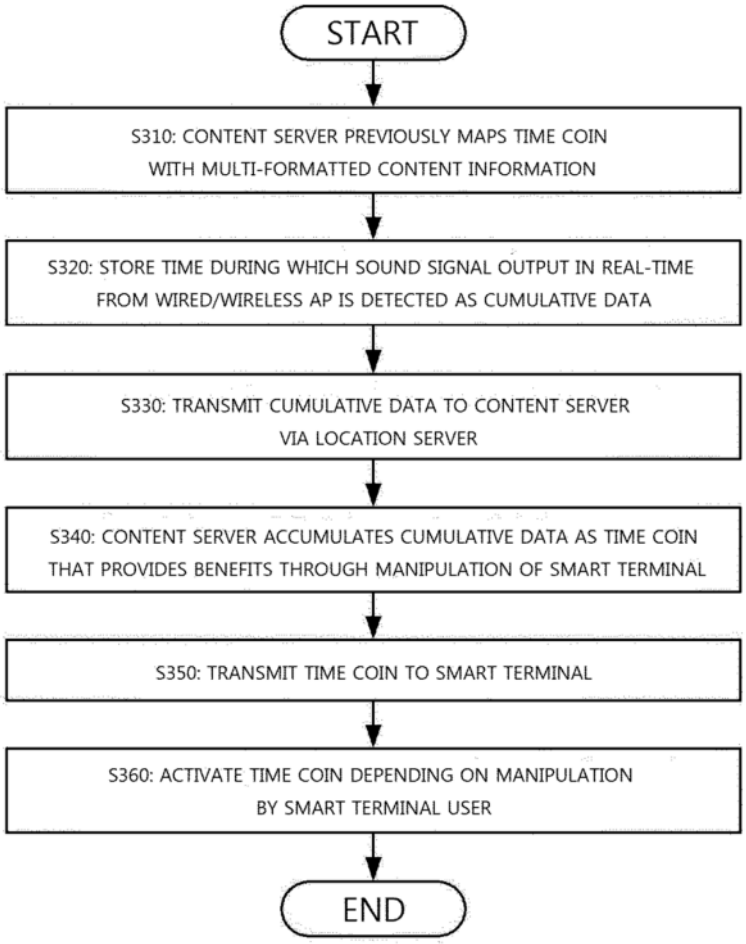
[Fig. 4]


START
S111: PRESET ONE OR MORE INVERSION INTERVAL VALUES FOR INVERTING OUTPUT OF SOUND SIGNAL
S112: PRESET VARIATION TIME FOR SECTION IN WHICH SOUND SIGNAL IS INVERTED ACCORDING TO SELECTED INVERSION INTERVAL VALUE
S113: SET MULTIPLE INVERSION INTERVAL VALUES
S114: PRESET VARIATION TIME FOR SECTION IN WHICH SOUND SIGNAL IS INVERTED ON EVERY OCCURRENCE OF OVERFLOW
S115: INVERT SOUND SIGNAL ACCORDING TO ONE INVERSION INTERVAL VALUE WITHIN A CERTAIN SECTION
S116: OVERFLOW?
NO
YES
S117: INVERT SOUND SIGNAL ACCORDING TO ANOTHER INVERSION INTERVAL VALUE WITHIN ANOTHER SECTION
END

[Fig. 5]


100: WIRED/ WIRELESS AP
200: SMART TERMINAL
400: CONTENT SERVER
S110: DETERMINE VARIATION PATTERN OF SOUND SIGNAL
S210: ACTIVATE APPLICATION
S410: MAP MULTI-FORMATTED CONTENT INFORMATION
S120: OUPUT SOUND SIGNAL OF HIGH FREQUENCY BAND
S130: TRANSMIT SOUND SIGNAL
S220: DETECT SOUND SIGNAL IN REAL-TIME
S230: TRANSMIT UNIQUE IDENTIFICATION NUMBER OF WIRED/WIRELESS AP AND SERIAL NUMBER OF SMART TERMINAL VIA LOCATION SERVER
S240: TRANSMIT PREVIOUSLY MAPPED MULTI-FORMATTED CONTENT INFORMATION IN RESPONSE TO UNIQUE IDENTIFICATION NUMBER
S250: OUTPUT MULTI-FORMATTED CONTENT INFORMATION

[Fig. 6]


START
S310: CONTENT SERVER PREVIOUSLY MAPS TIME COIN WITH MULTI-FORMATTED CONTENT INFORMATION
S320: STORE TIME DURING WHICH SOUND SIGNAL OUTPUT IN REAL-TIME FROM WIRED/WIRELESS AP IS DETECTED AS CUMULATIVE DATA
S330: TRANSMIT CUMULATIVE DATA TO CONTENT SERVER VIA LOCATION SERVER
S340: CONTENT SERVER ACCUMULATES CUMULATIVE DATA AS TIME COIN THAT PROVIDES BENEFITS THROUGH MANIPULATION OF SMART TERMINAL
S350: TRANSMIT TIME COIN TO SMART TERMINAL
S360: ACTIVATE TIME COIN DEPENDING ON MANIPULATION BY SMART TERMINAL USER
END