

ANTENNA
1011

1012
101M
RF RADIO UNIT
102

1031

MATCHED
FILTER

$y_{k,1,\ell}$

1032

MATCHED
FILTER

$y_{k,2,\ell}$

103M

MATCHED
FILTER

$y_{k,M,\ell}$

105

ADDING UNIT Σ

w_1

$*$

w_2

$*$

$\vdots$

w_M

$*$

w_M

WEIGHTING FACTOR
CONTROLLING UNIT
(MMSE)

104

REFERENCE SIR $\bigcirc$

106

PHASE
VARIATION
ESTIMATING
UNIT

$\xi_{k,\ell}$
 $\xi_{k,\ell}$
 $\xi_{k,\ell}$

$z_{k,\ell}$

PHASE
VARIATION
COMPENSATING
UNIT 107

$*$

z_k

IDENTIFYING
AND JUDGING
UNIT 108

z_k

$\otimes$

OUTPUT OF
REPRODUCED
DATA

$+$

$-$

$\otimes$

ERROR SIGNAL

ERROR
VECTOR

$\otimes$

ESTIMATED PHASE
VARIATION

MULTIPLYING UNIT 109

SIR MEASURING
UNIT

110

TRANSMISSION
POWER
CONTROL
SIGNAL

FIG.1

FIG.2

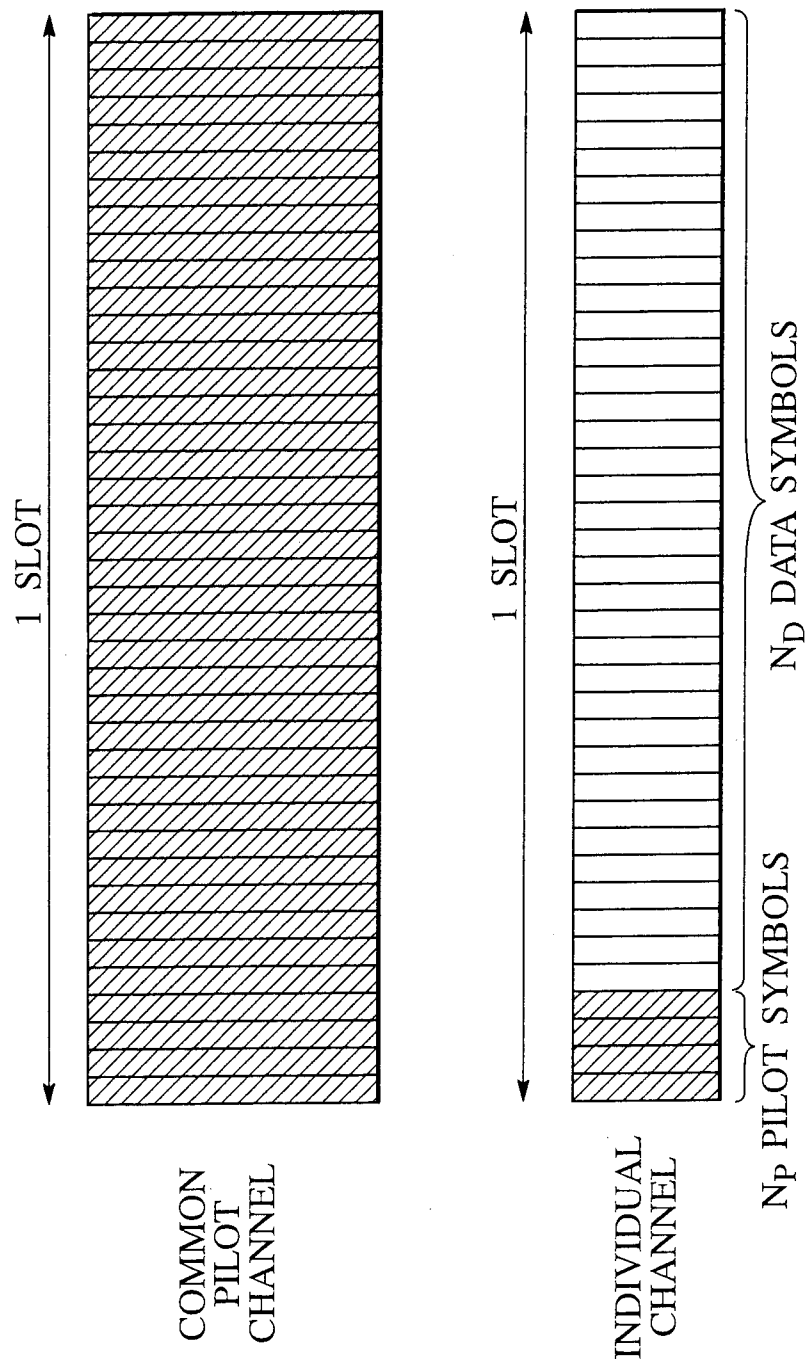


FIG.3A

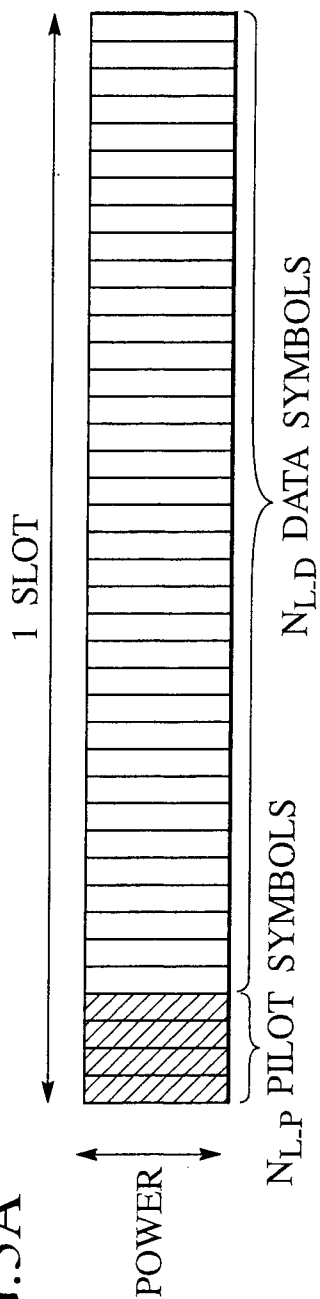


FIG.3B

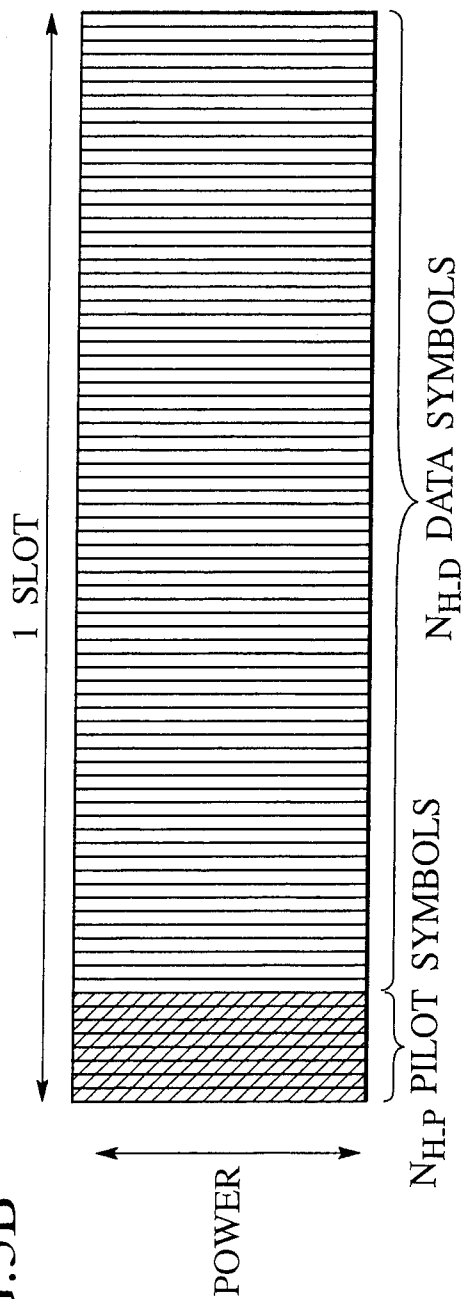


FIG.4

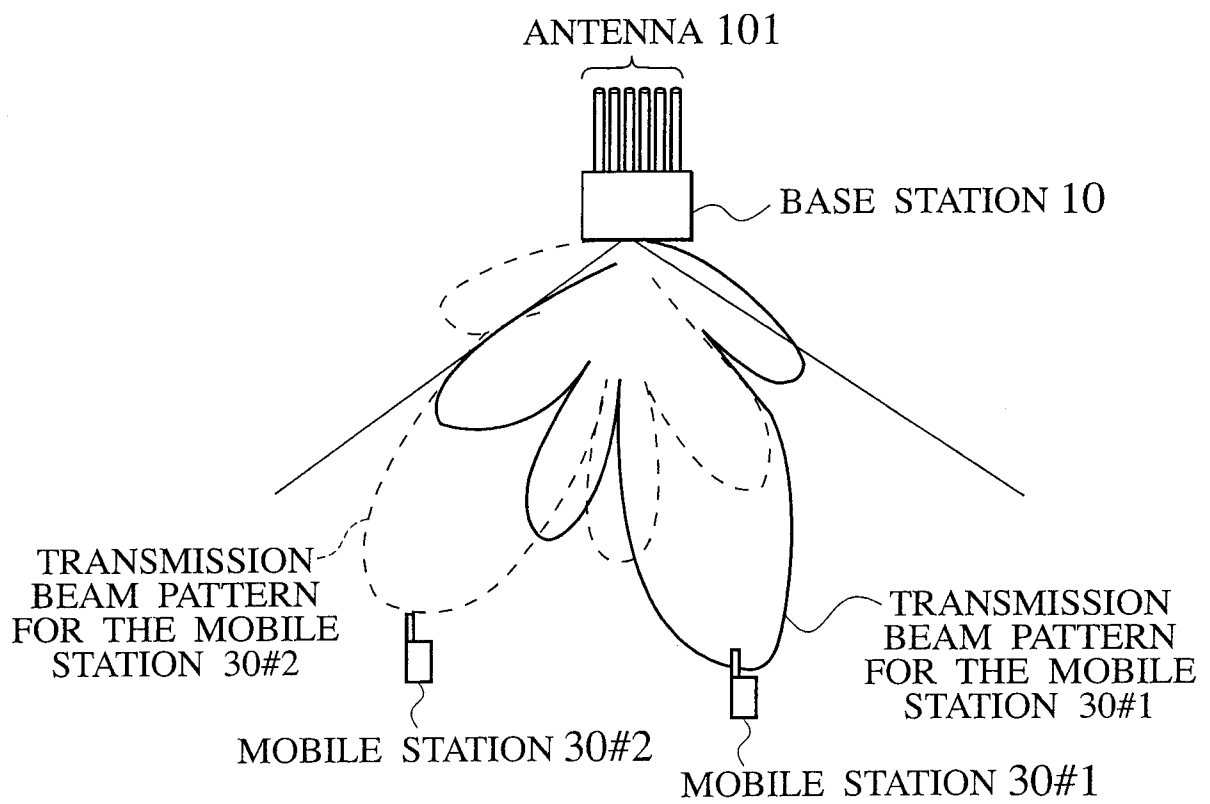


FIG.5 MOBILE STATION
WHICH CAN
RECEIVE

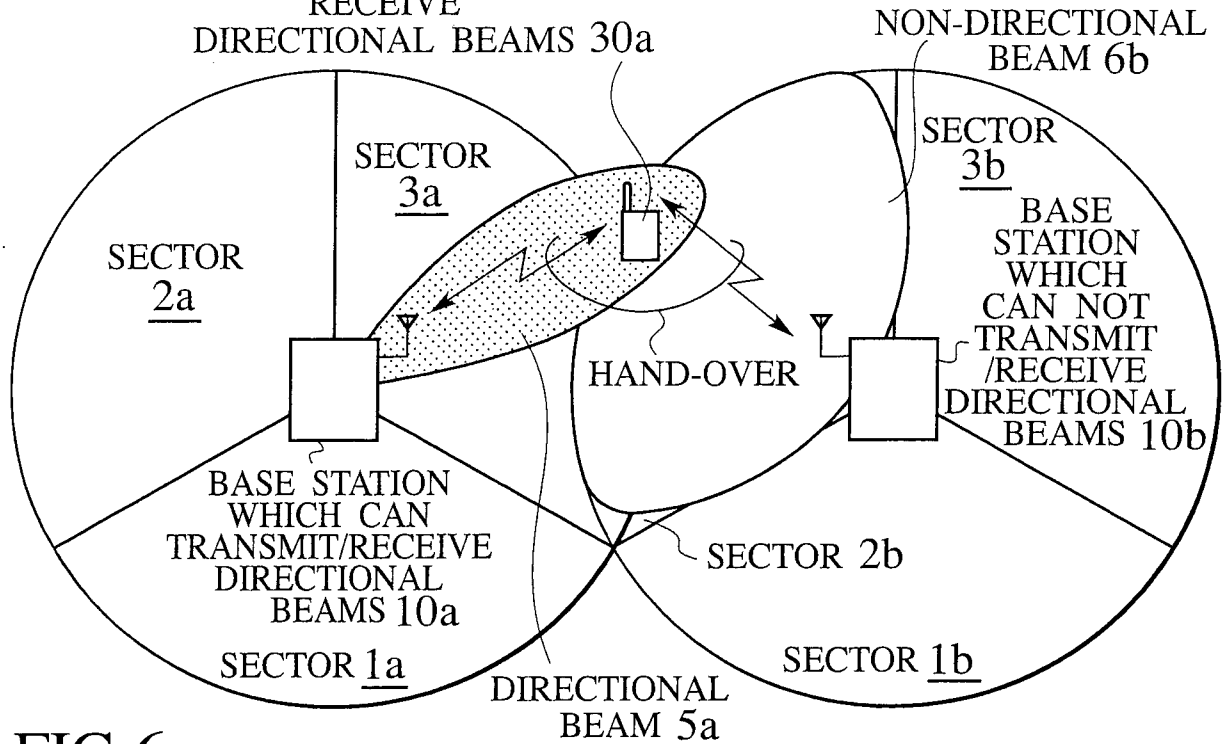


FIG.6

MOBILE STATION WHICH
CAN NOT RECEIVE
DIRECTIONAL BEAMS 30b

MOBILE STATION
WHICH CAN
RECEIVE
DIRECTIONAL BEAMS 30a

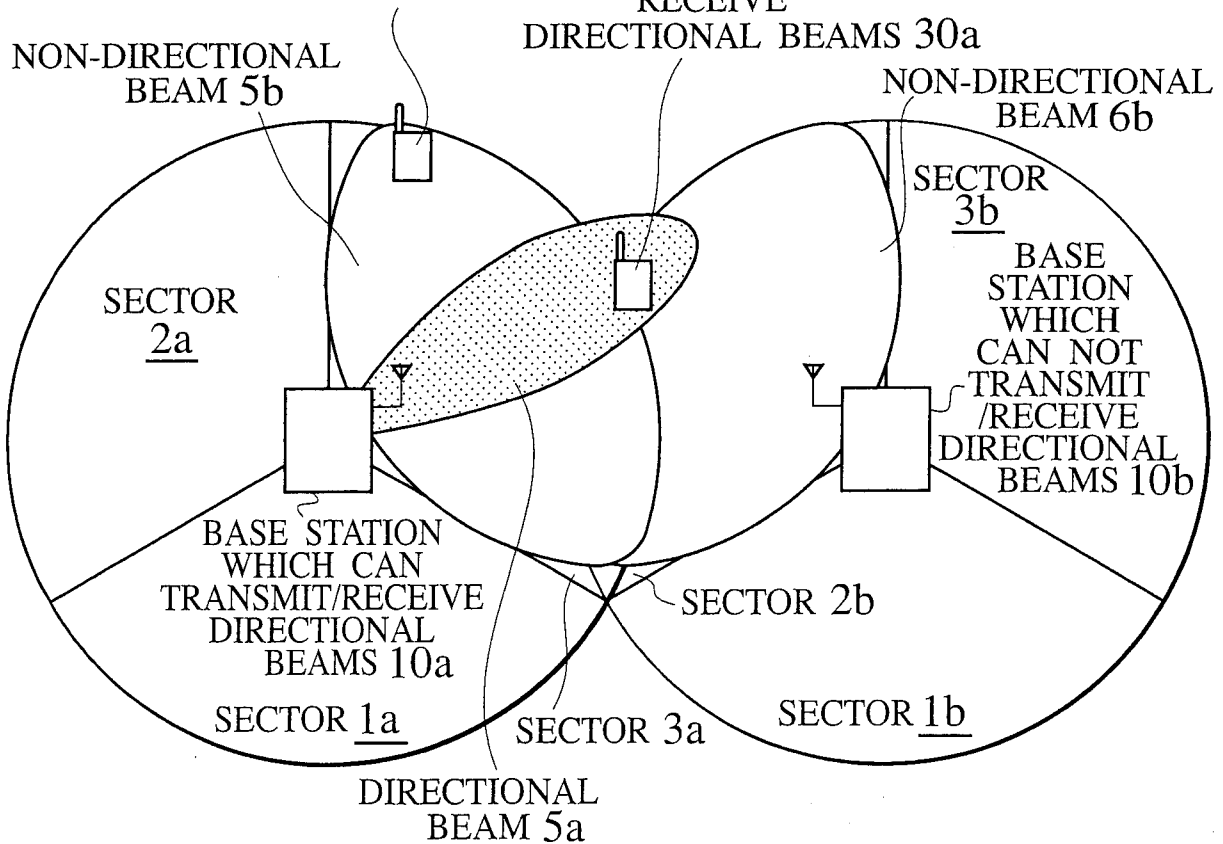
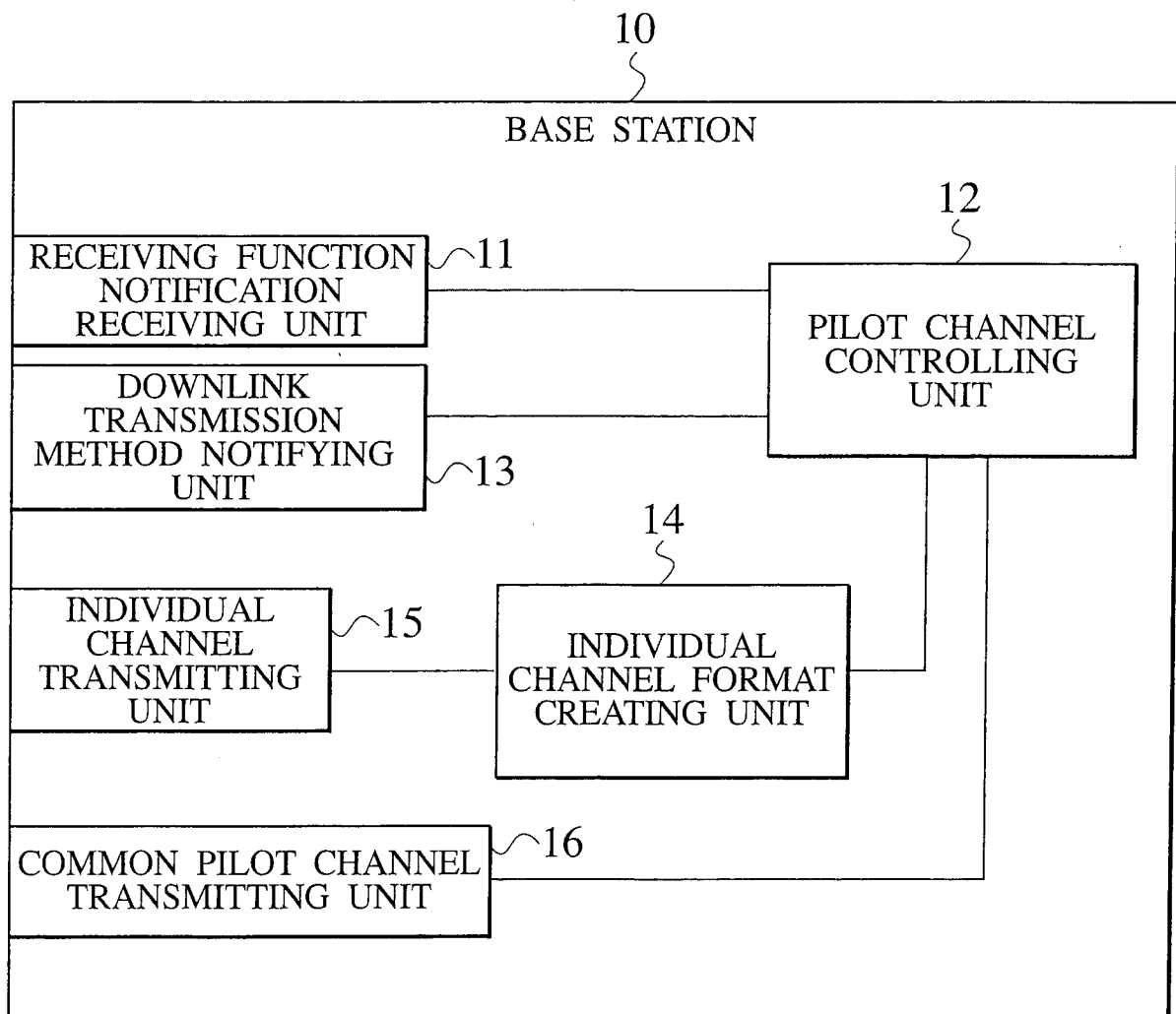


FIG.7



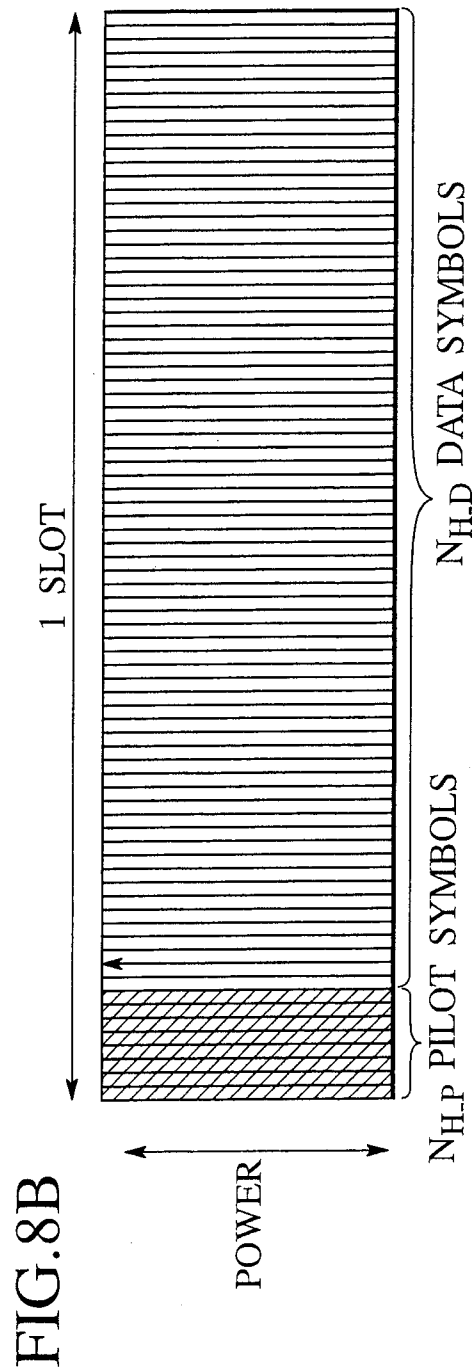
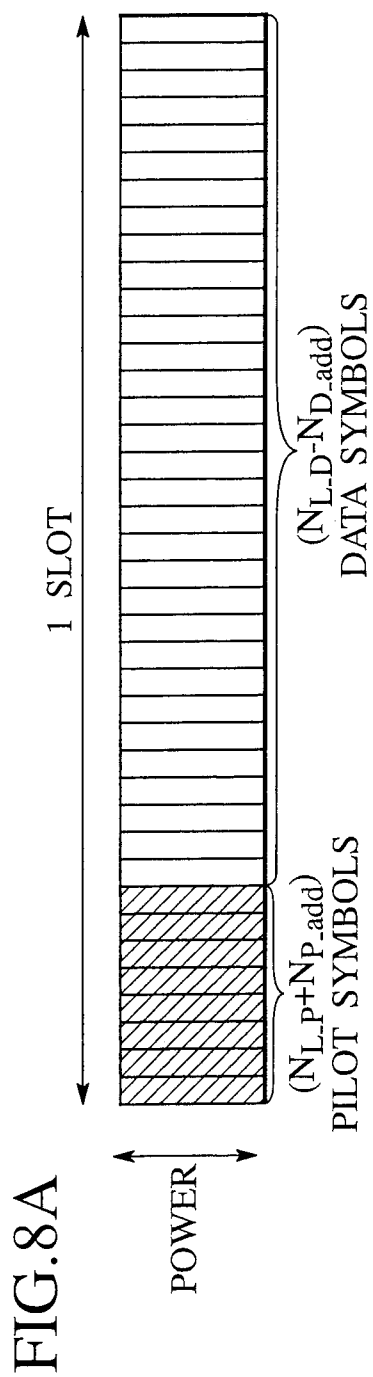


FIG.9

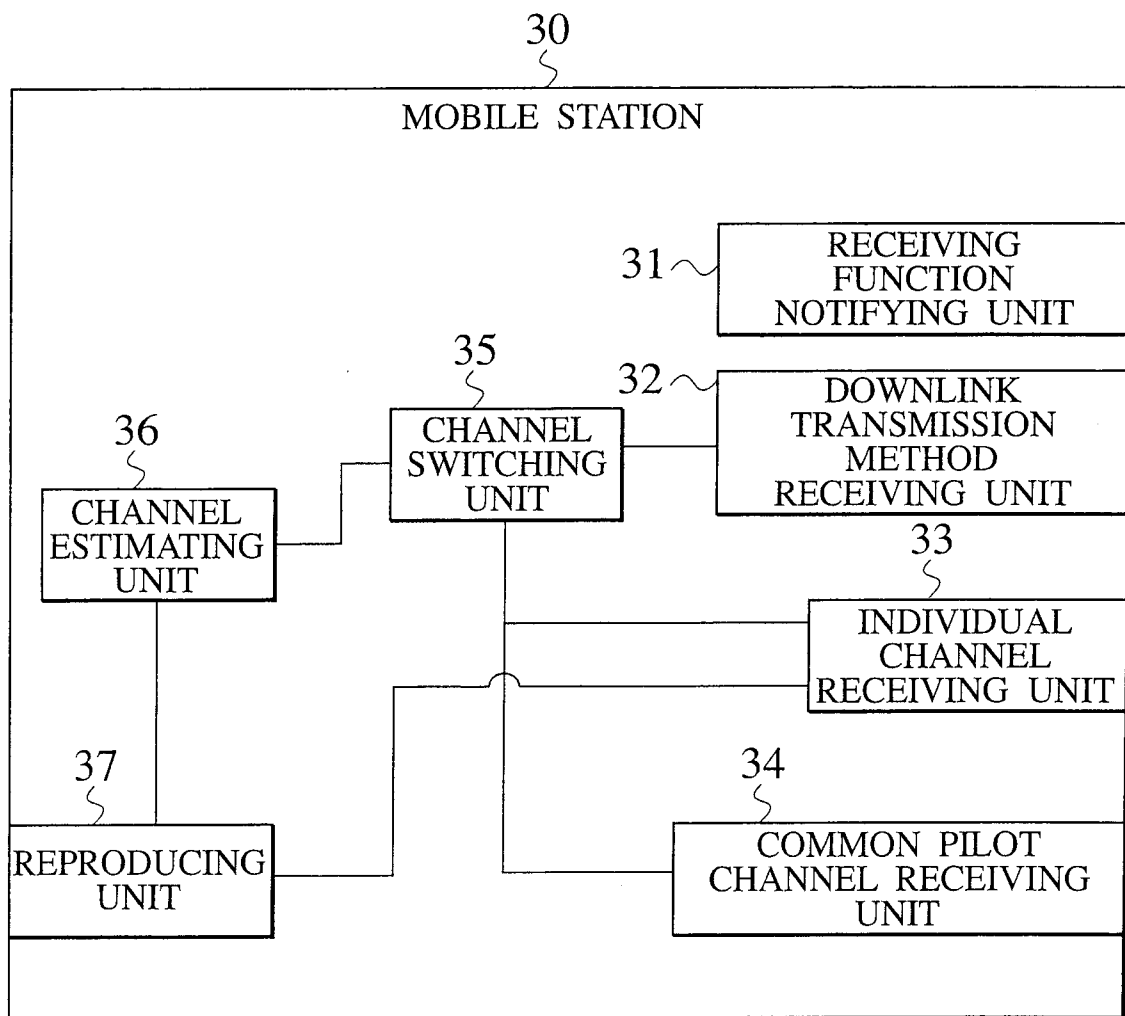


FIG.10

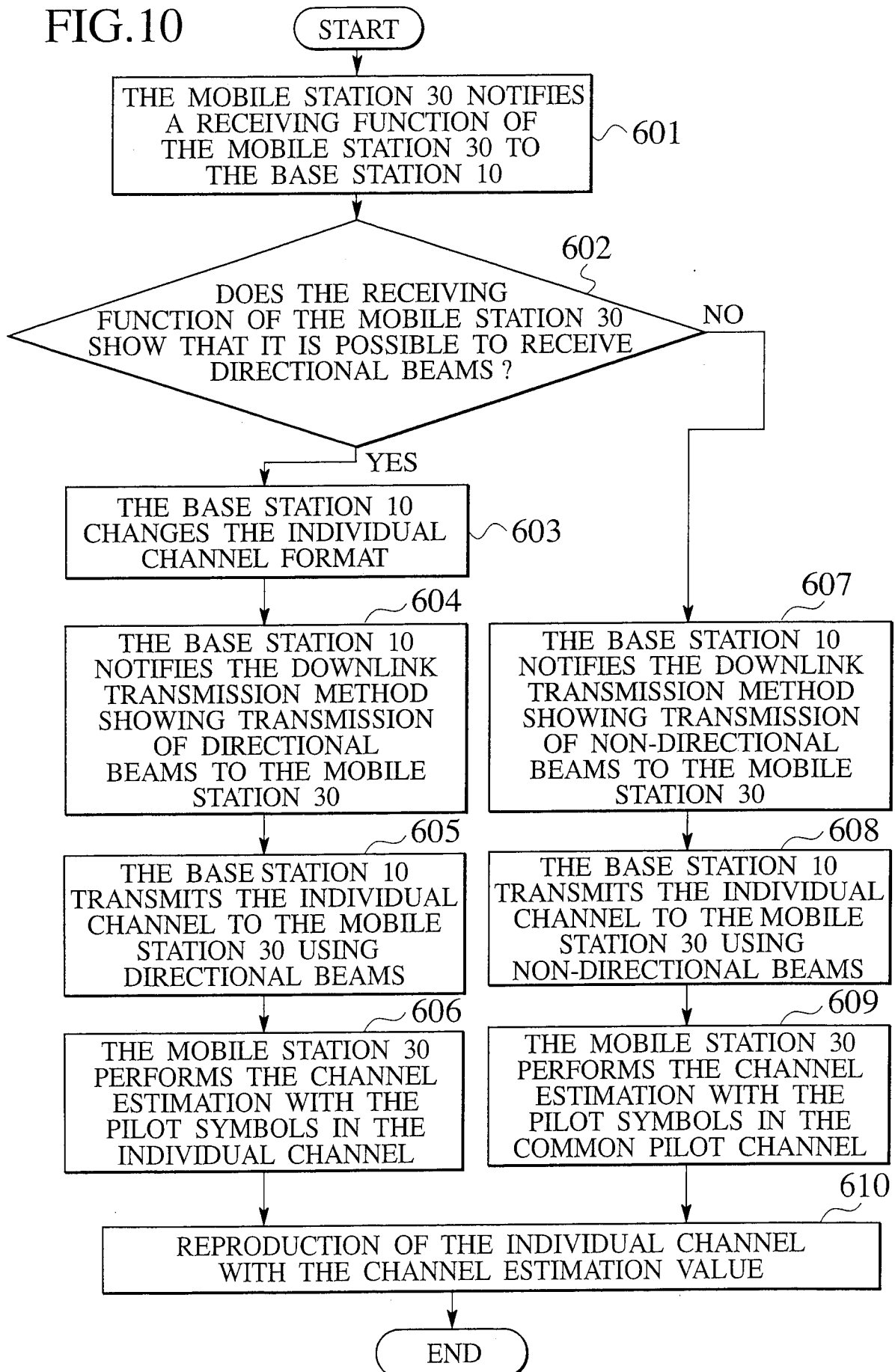


FIG.11

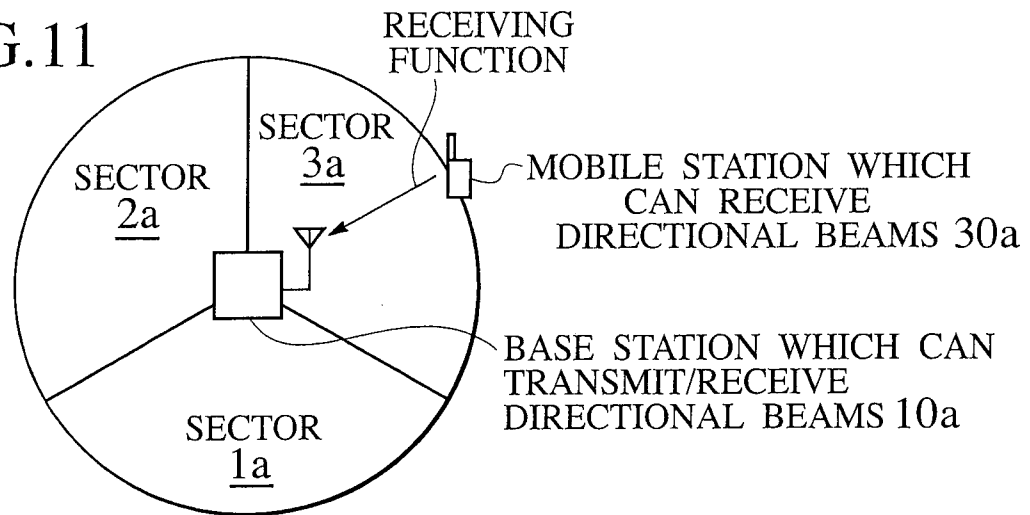


FIG.12

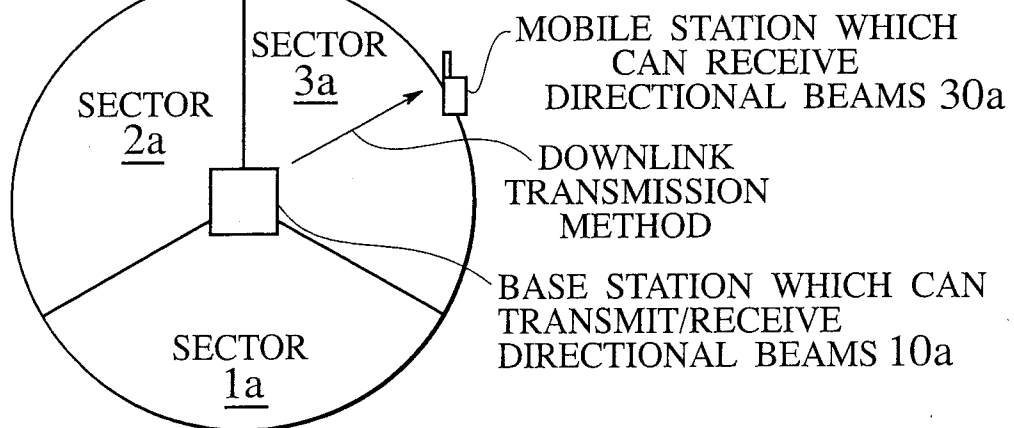


FIG.13

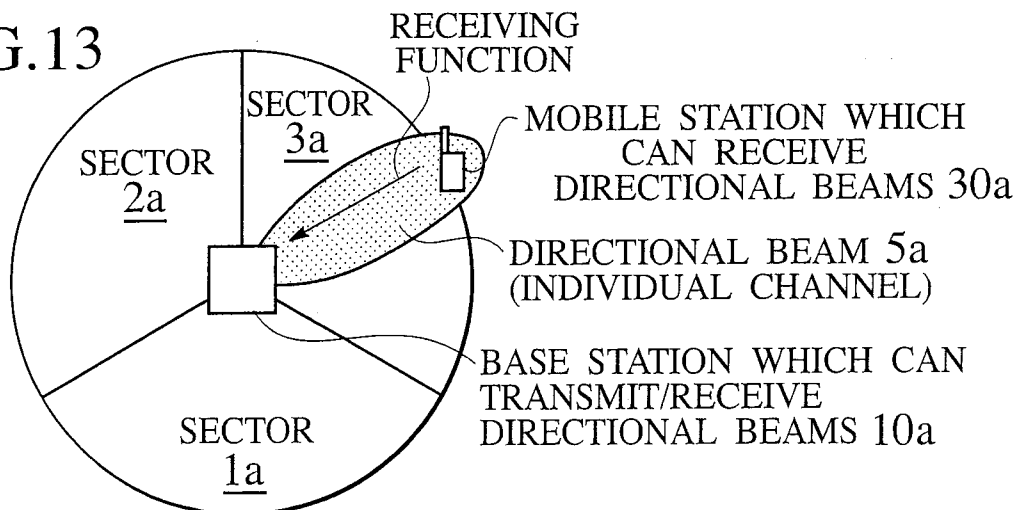


FIG.14A

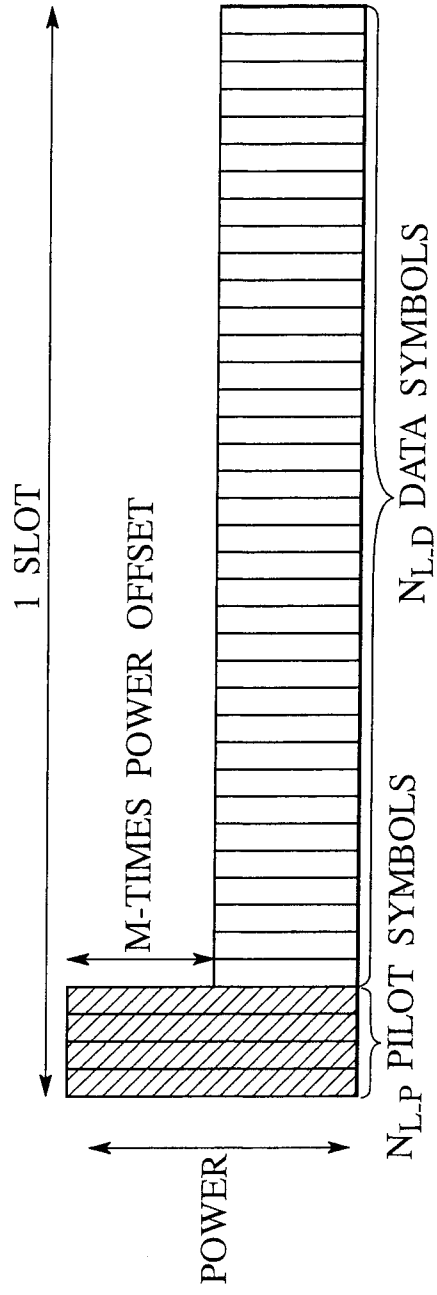


FIG.14B

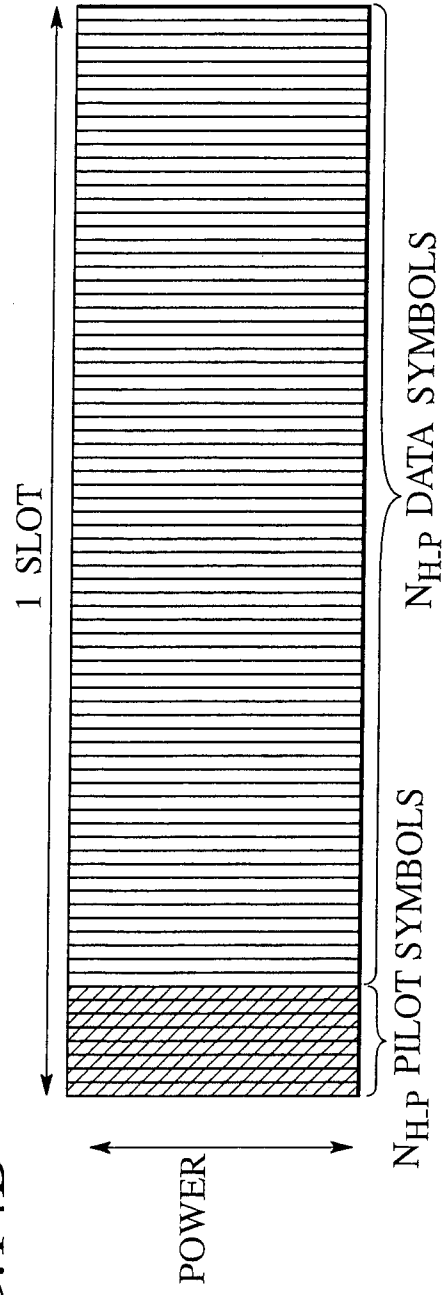


FIG.15

