**DRAWINGS**

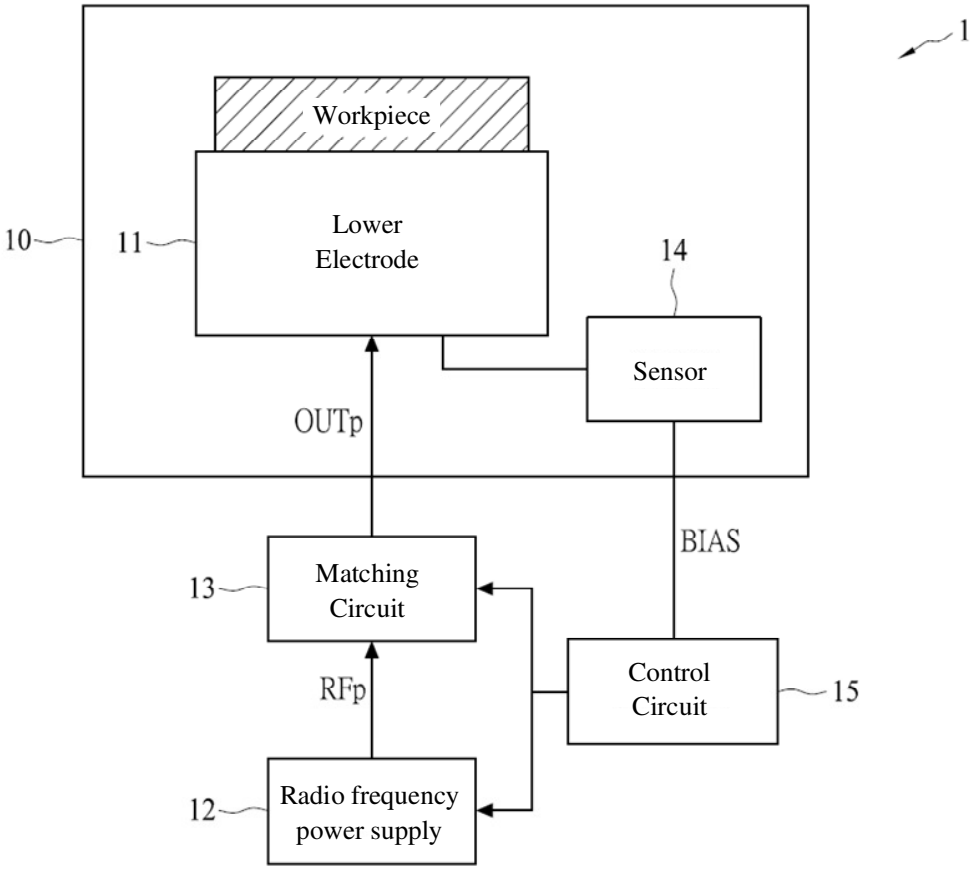


FIG. 1

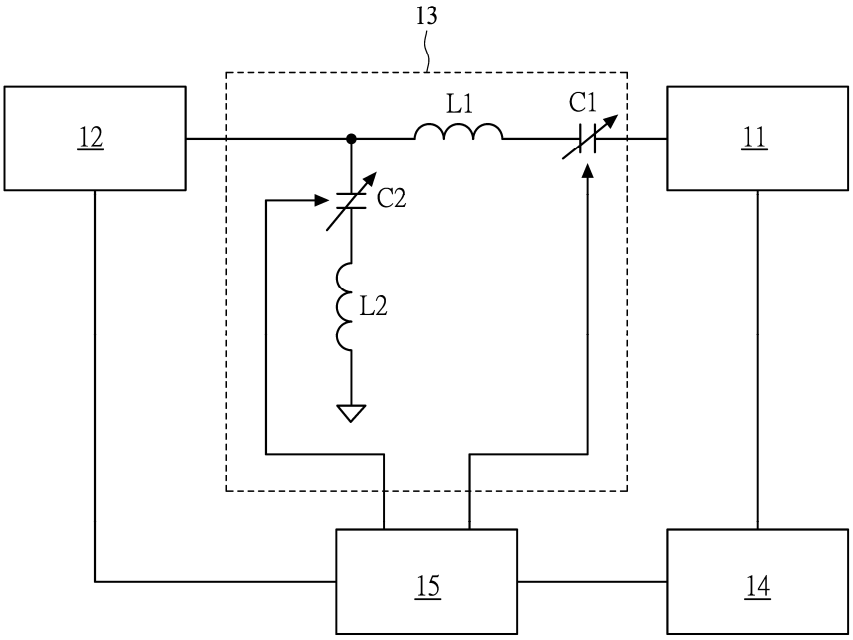
13
12
L1
C1
11
C2
L2
15
14

FIG. 2

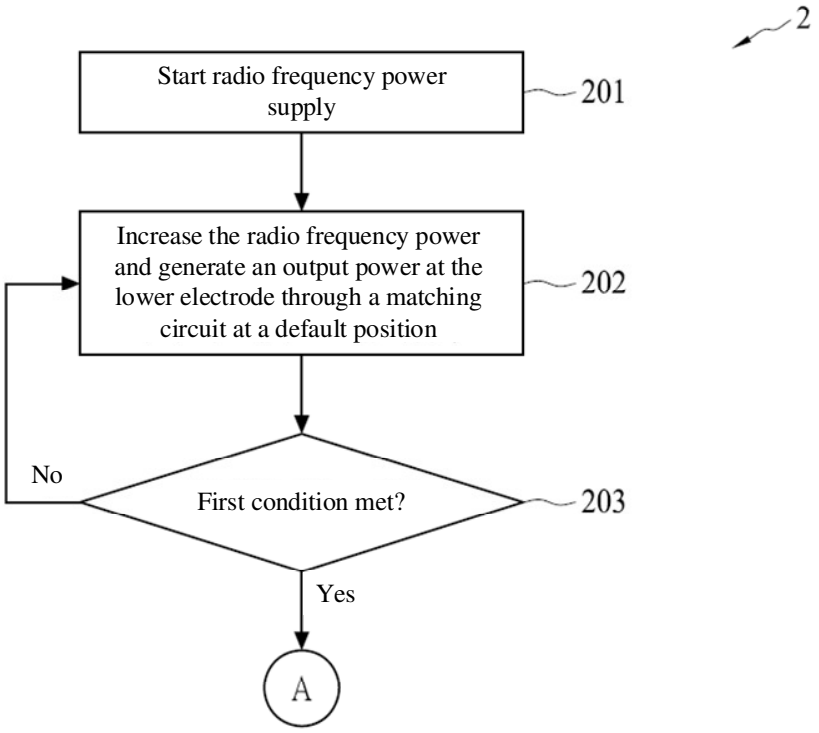
2
Start radio frequency power supply
201
Increase the radio frequency power and generate an output power at the lower electrode through a matching circuit at a default position
202
No
First condition met?
203
Yes
A

FIG. 3

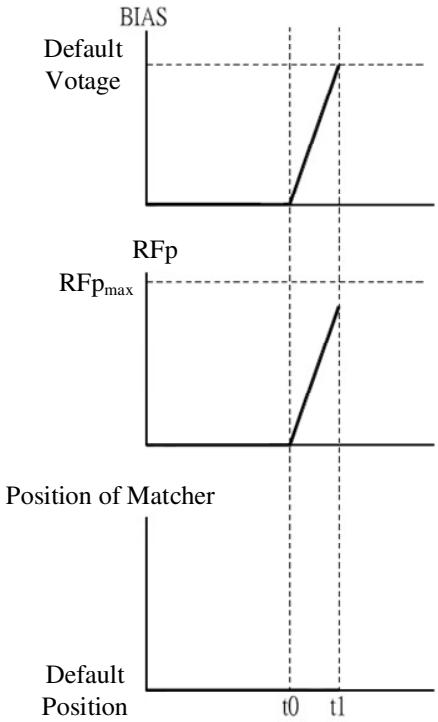
BIAS
Default
Votage
RFp
RFp$_{max}$
Position of Matcher
Default
Position
t0
t1

**FIG. 4A**

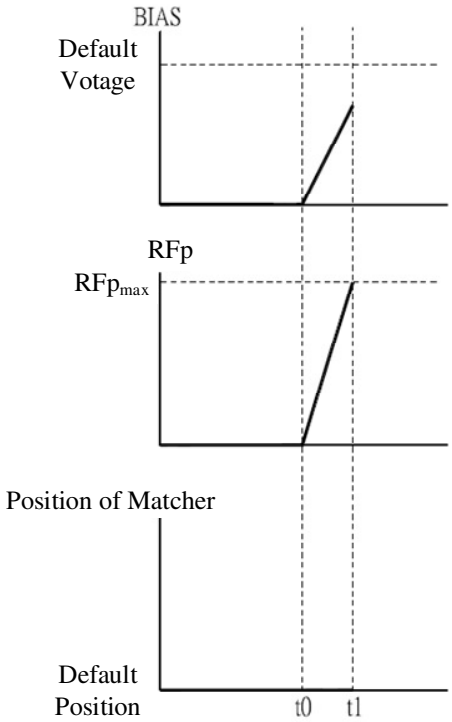
BIAS
Default
Votage
RFp
RFp$_{max}$
Position of Matcher
Default
Position
t0
t1

**FIG. 4B**

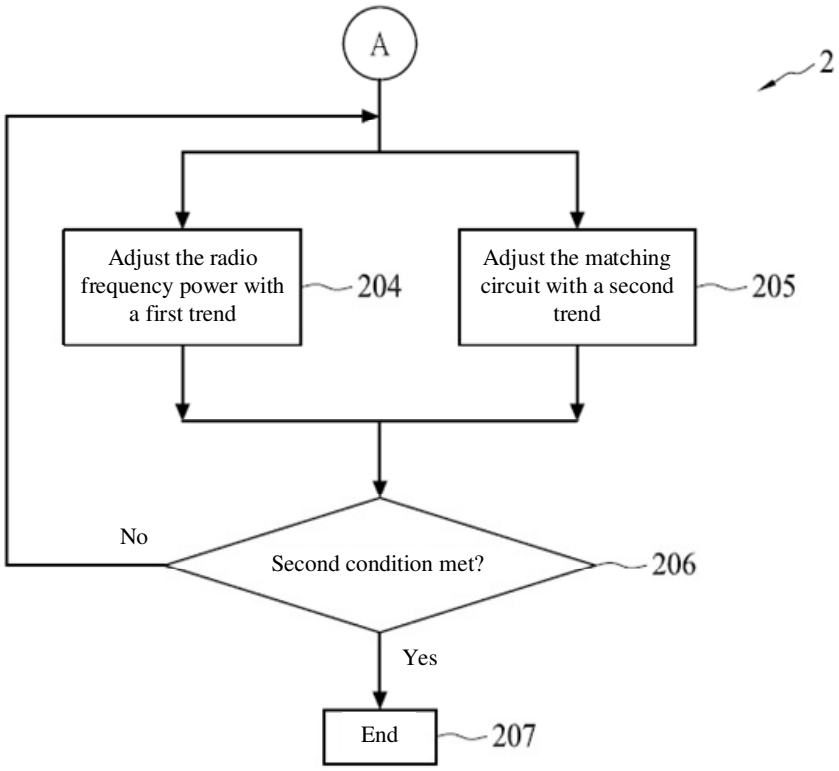


FIG. 5

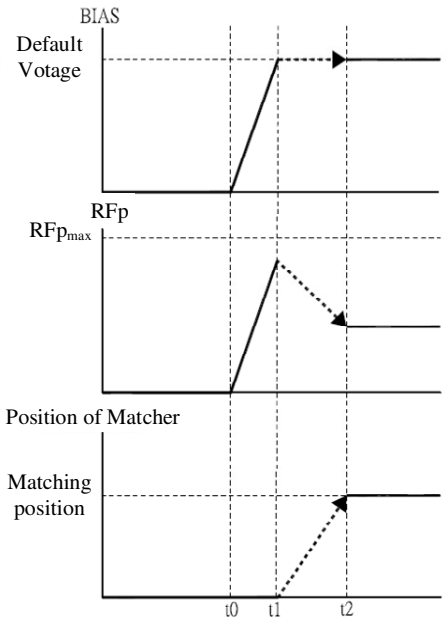


**FIG. 6A**

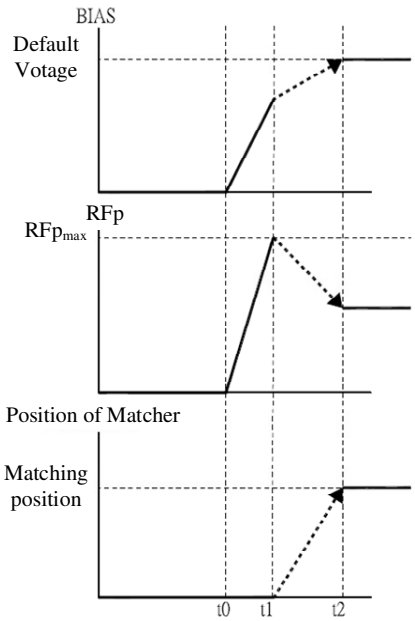


**FIG. 6B**

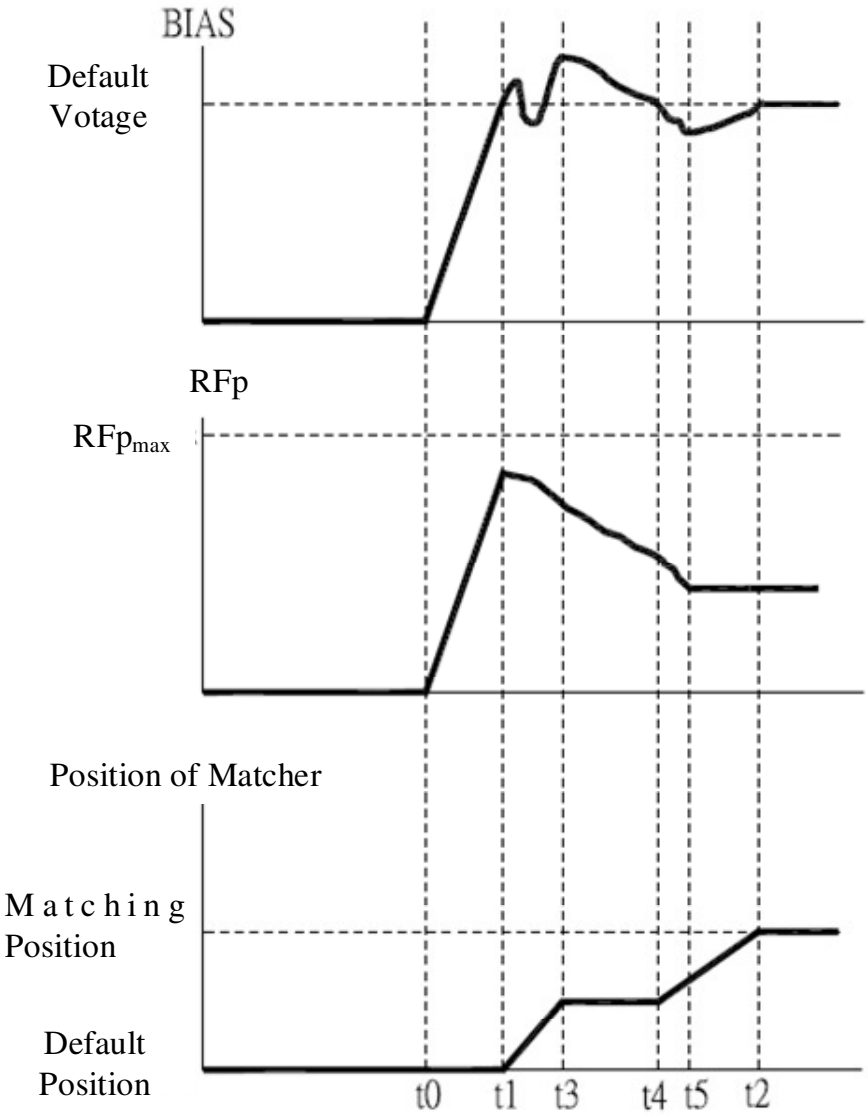
BIAS
Default
Votage
RFp
RFp$_{max}$
Position of Matcher
M a t c h i n g
Position
Default
Position
t0
t1
t3
t4
t5
t2

FIG. 7A

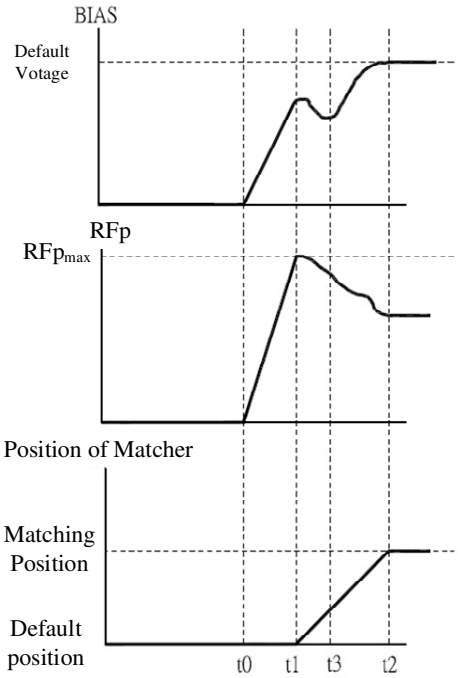
BIAS
Default
Votage
RFp
RFpmax
Position of Matcher
Matching
Position
Default
position
t0
t1
t3
t2

**FIG. 7B**

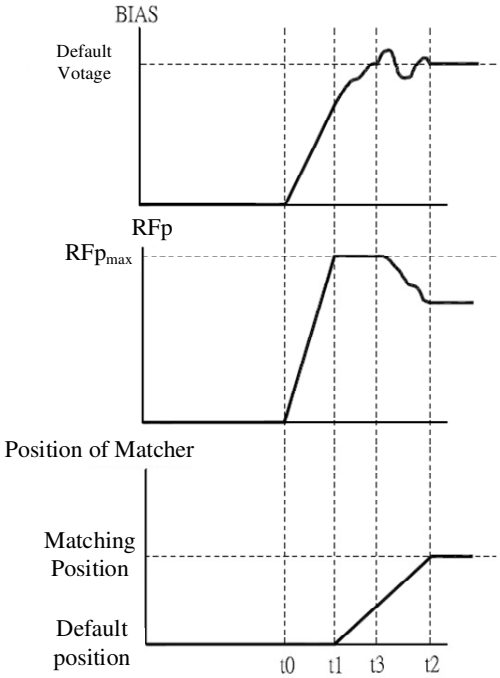
BIAS
Default
Votage
RFp
RFpmax
Position of Matcher
Matching
Position
Default
position
t0
t1
t3
t2

**FIG. 7C**

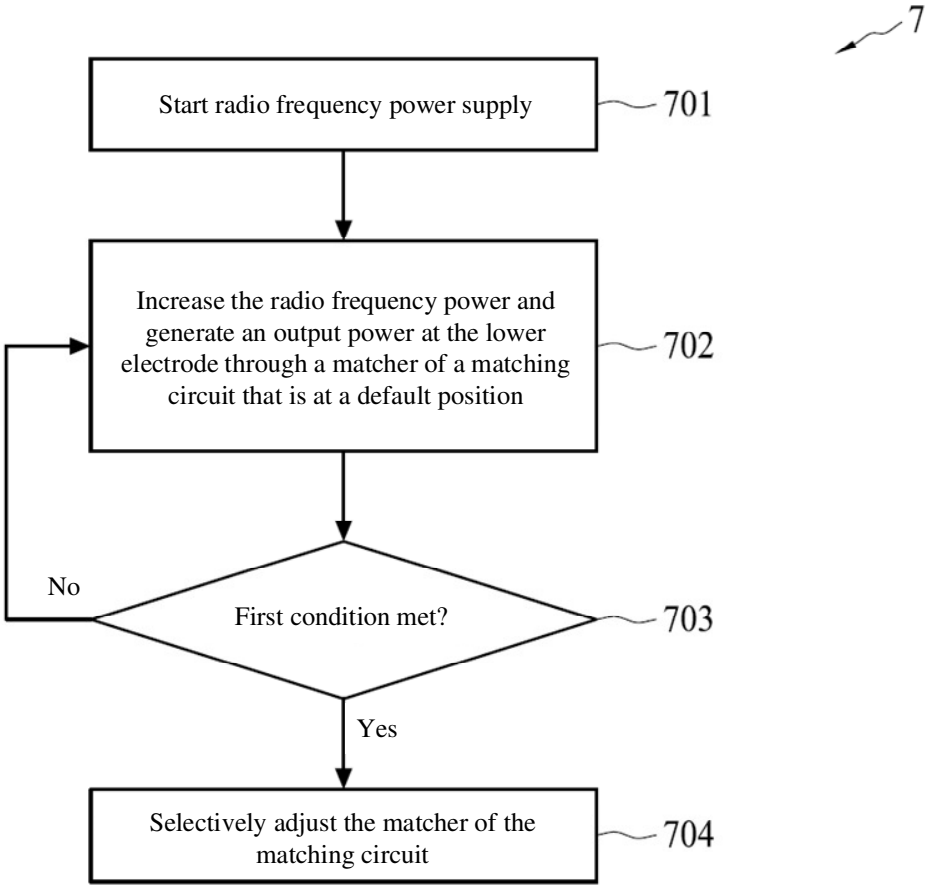
7
Start radio frequency power supply
701
Increase the radio frequency power and generate an output power at the lower electrode through a matcher of a matching circuit that is at a default position
702
No
First condition met?
703
Yes
Selectively adjust the matcher of the matching circuit
704

FIG. 8

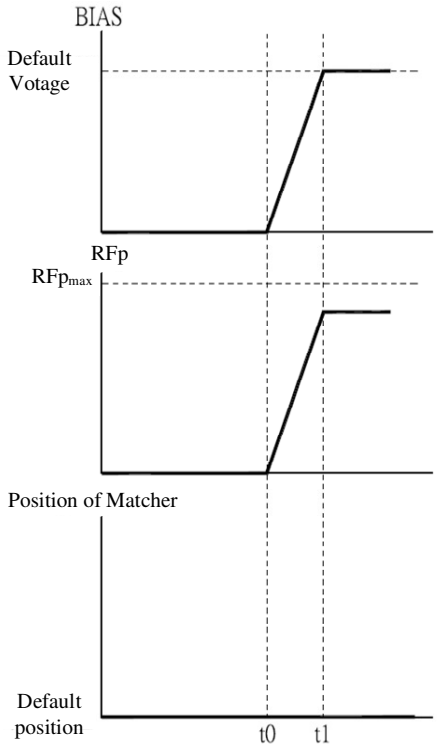
BIAS
Default
Votage
RFp
RFpmax
Position of Matcher
Default
position
t0
t1

**FIG. 9A**

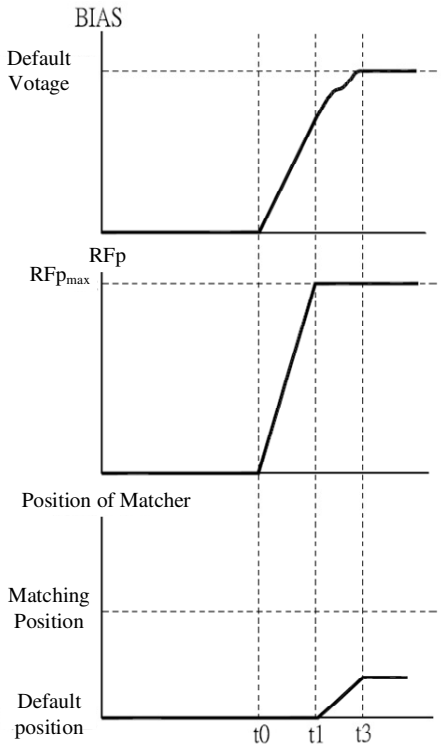
BIAS
Default
Votage
RFp
RFpmax
Position of Matcher
Matching
Position
Default
position
t0
t1
t3

**FIG. 9B**