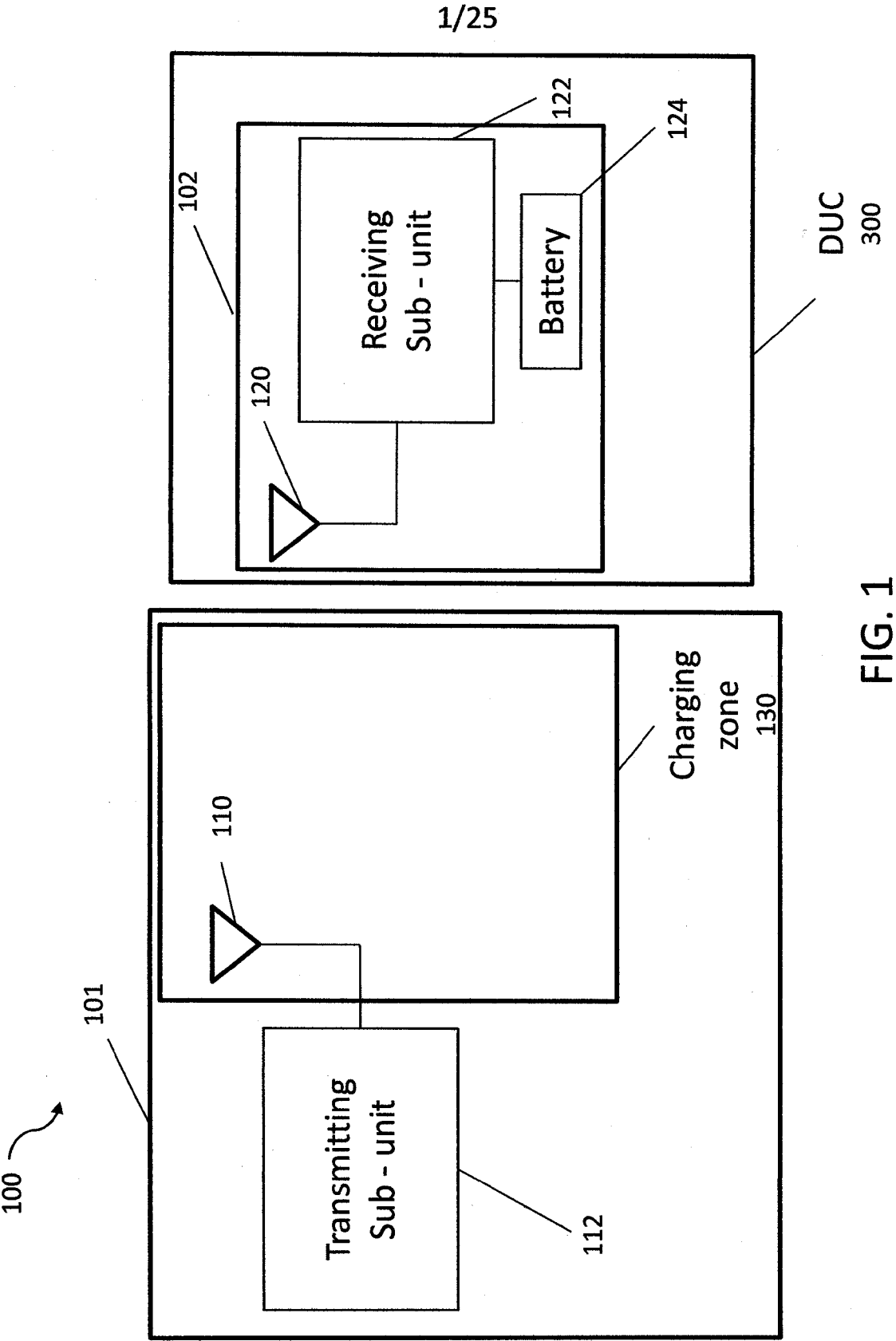




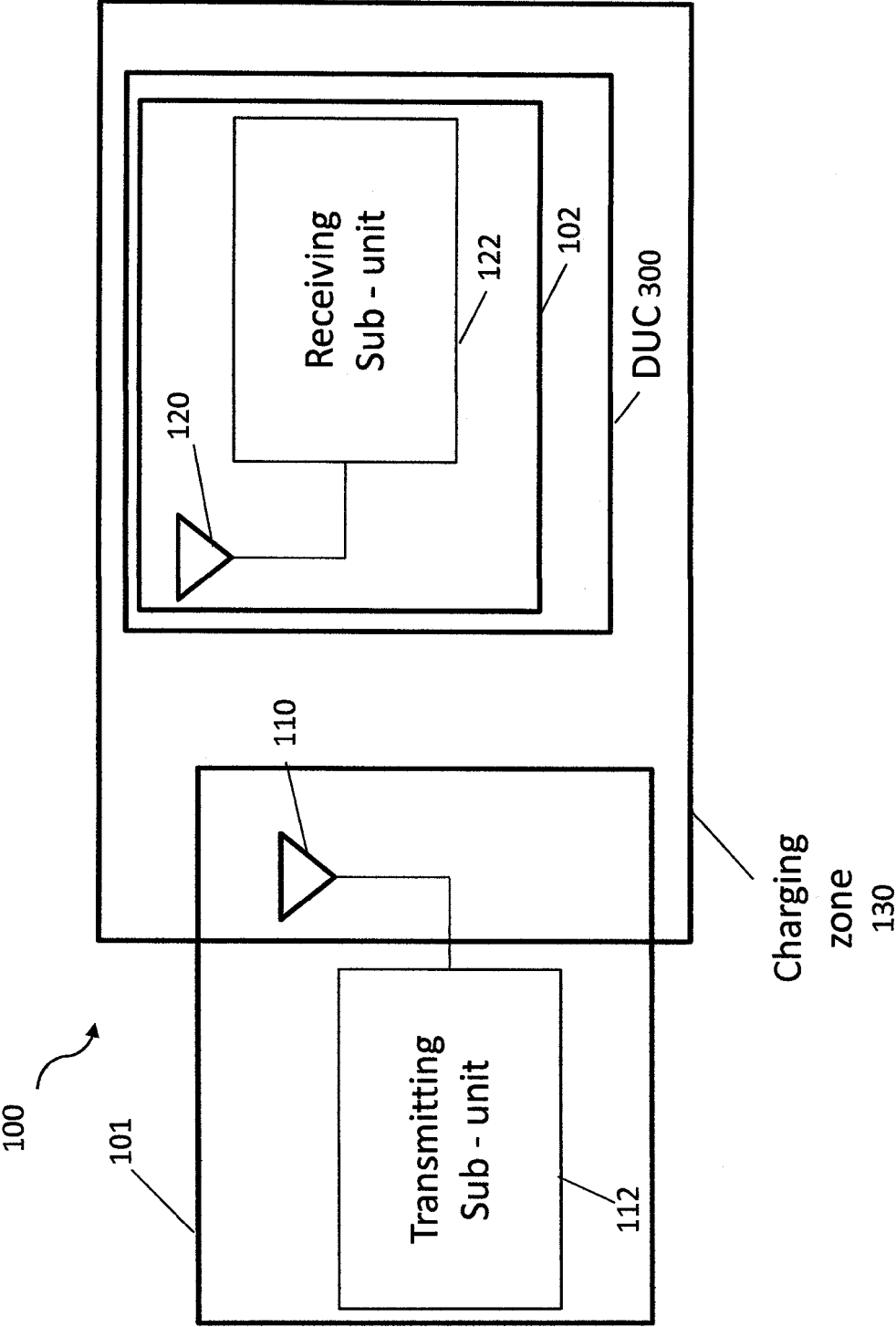


FIG. 2

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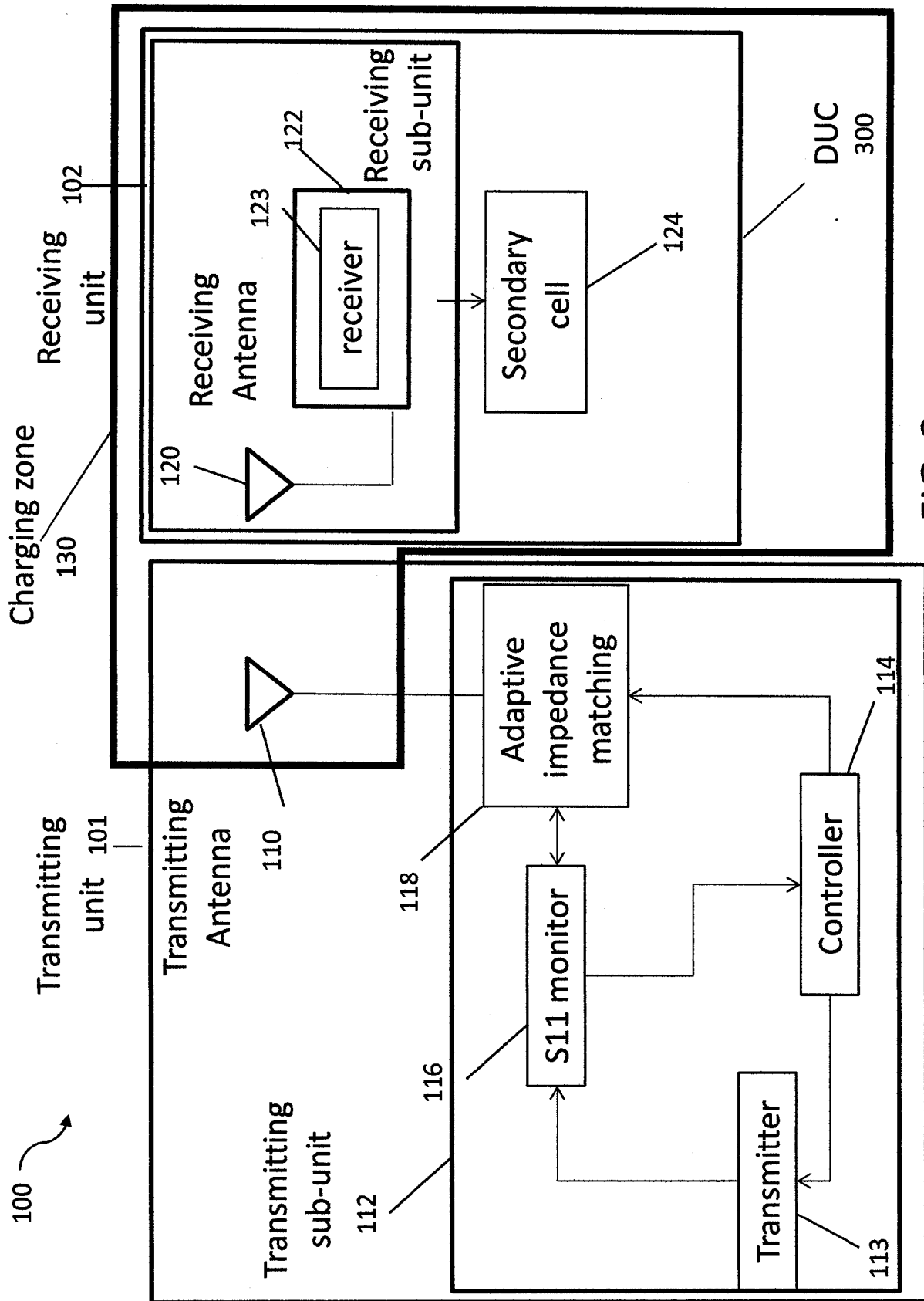


FIG. 3

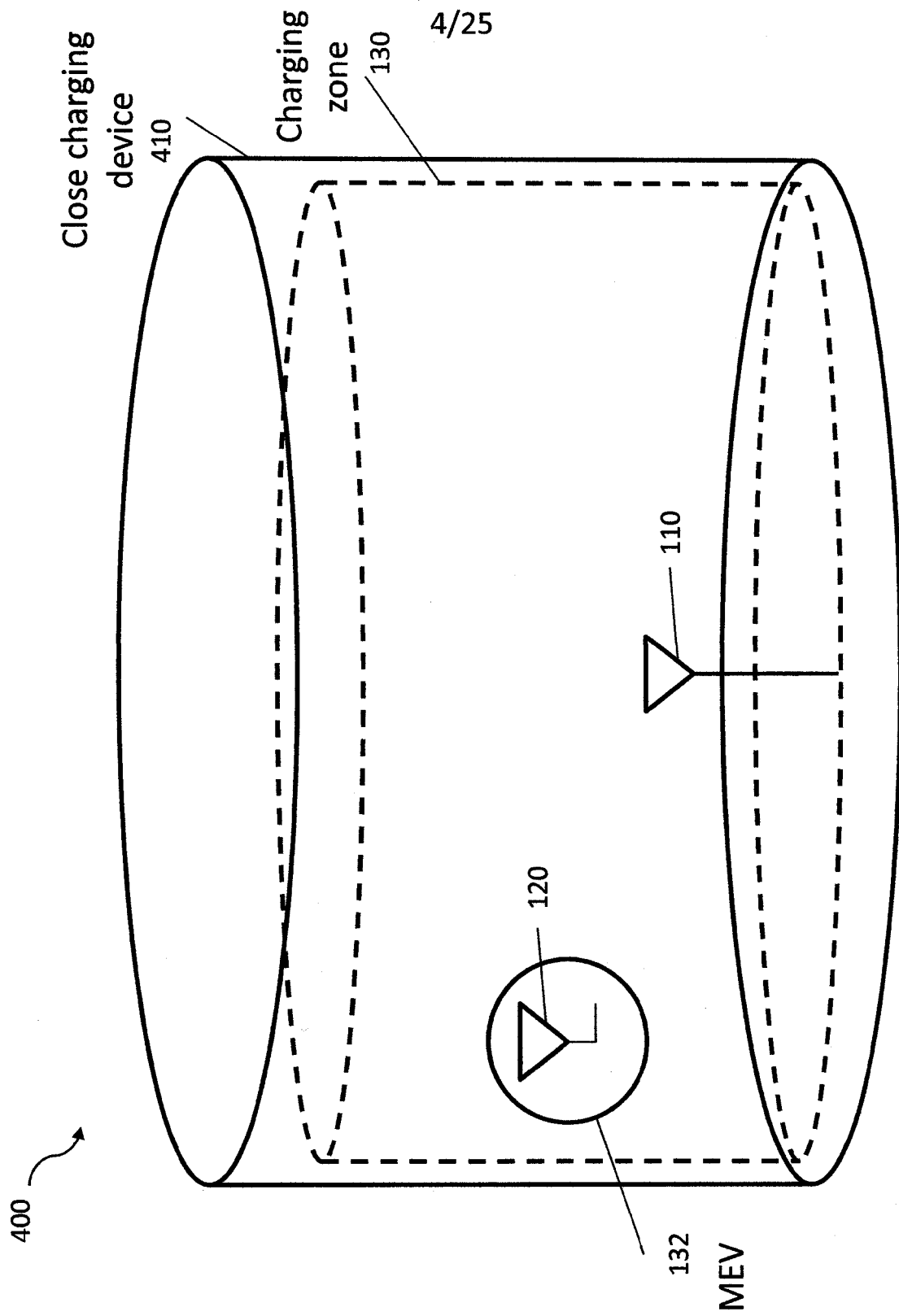


FIG. 4A

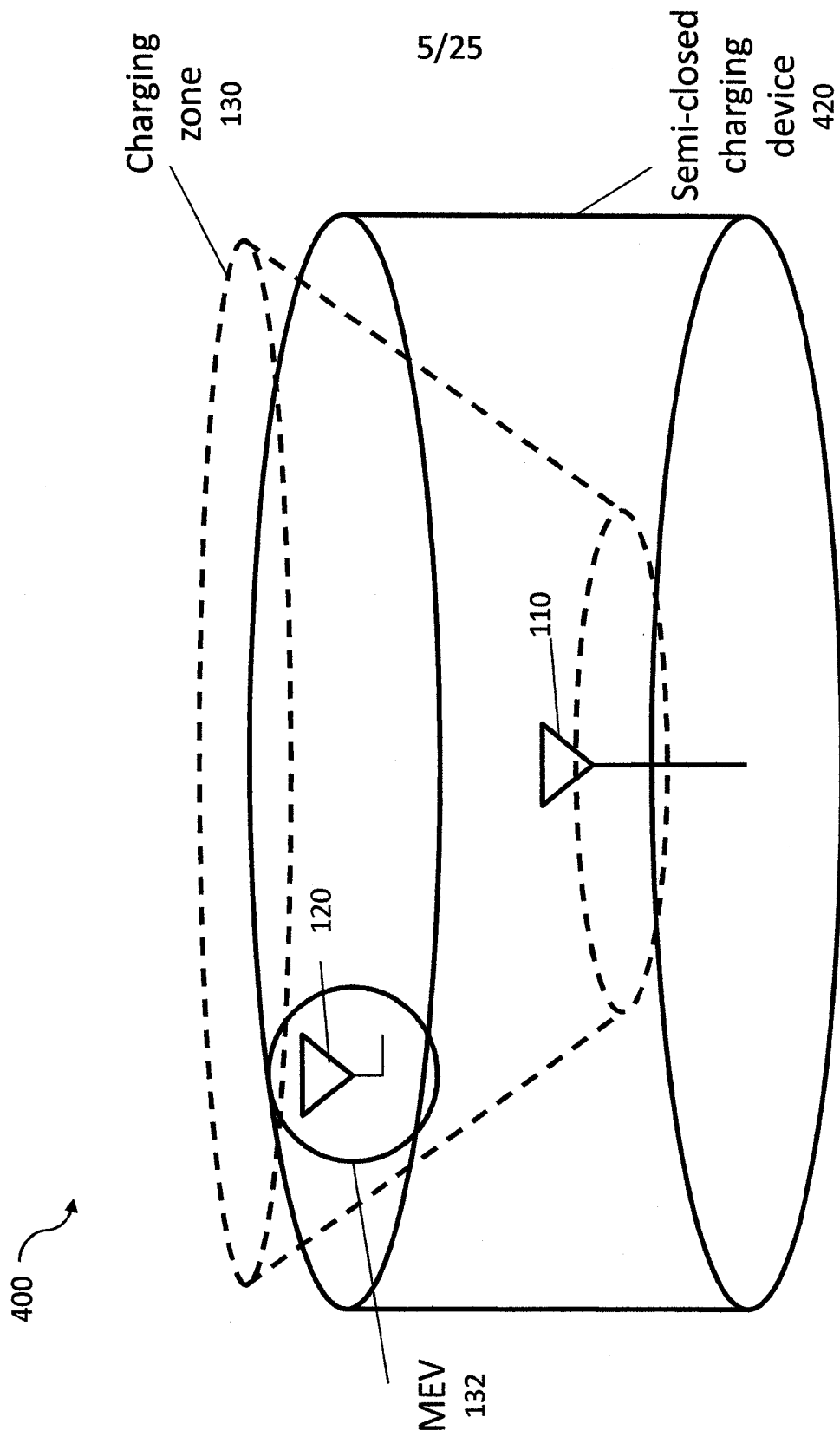
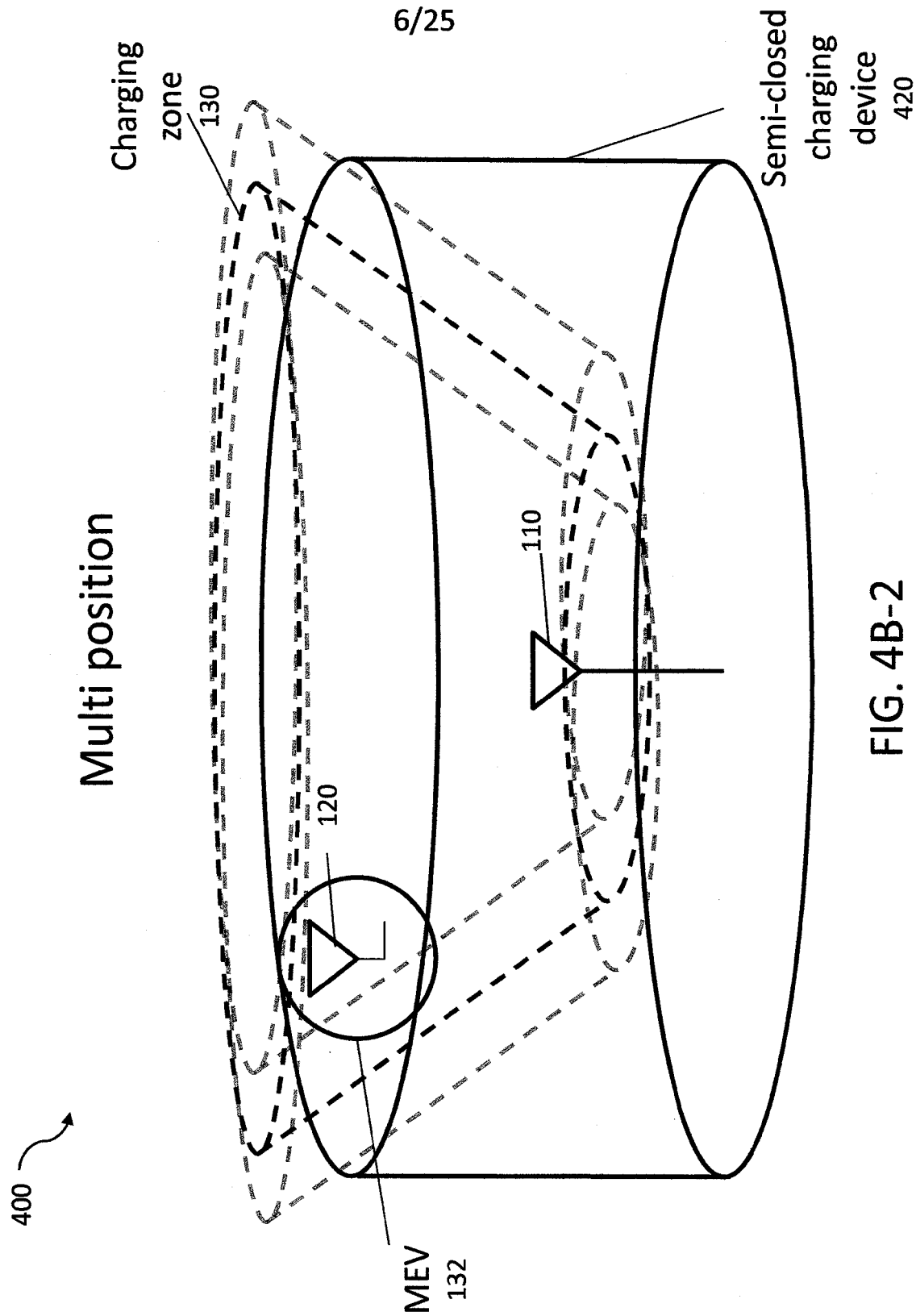


FIG. 4B-1



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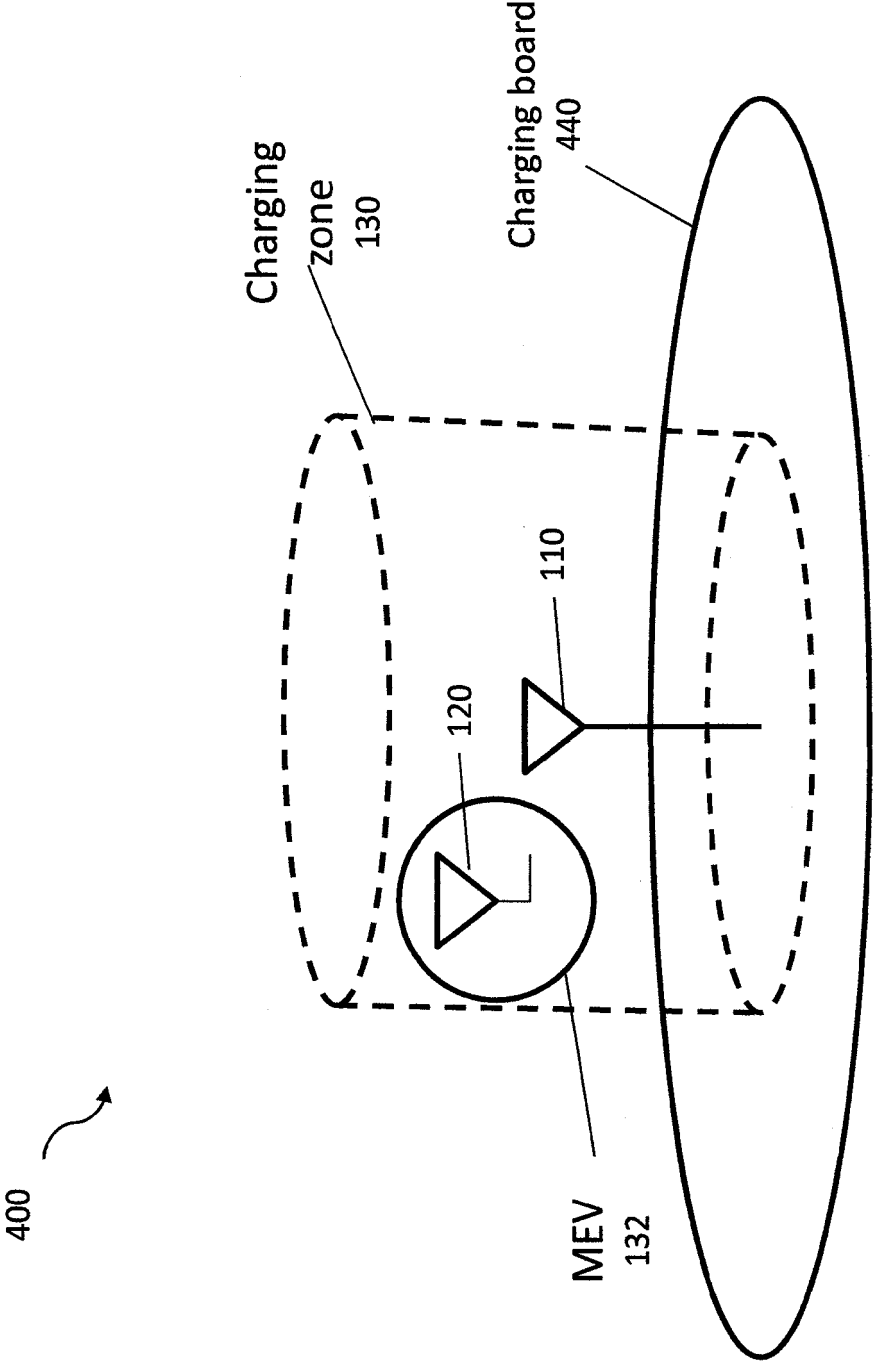


FIG. 4C-1

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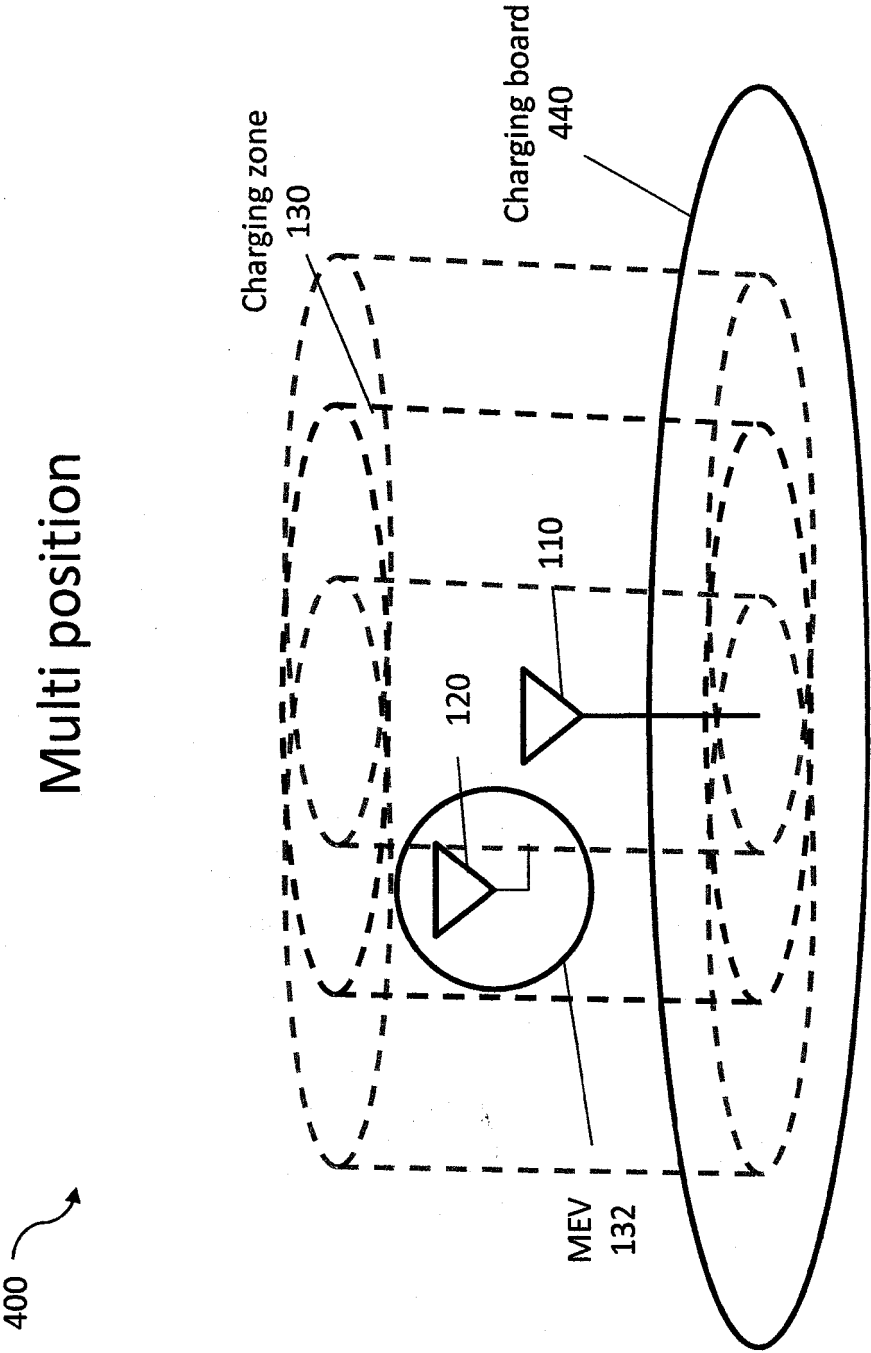


FIG. 4C-2

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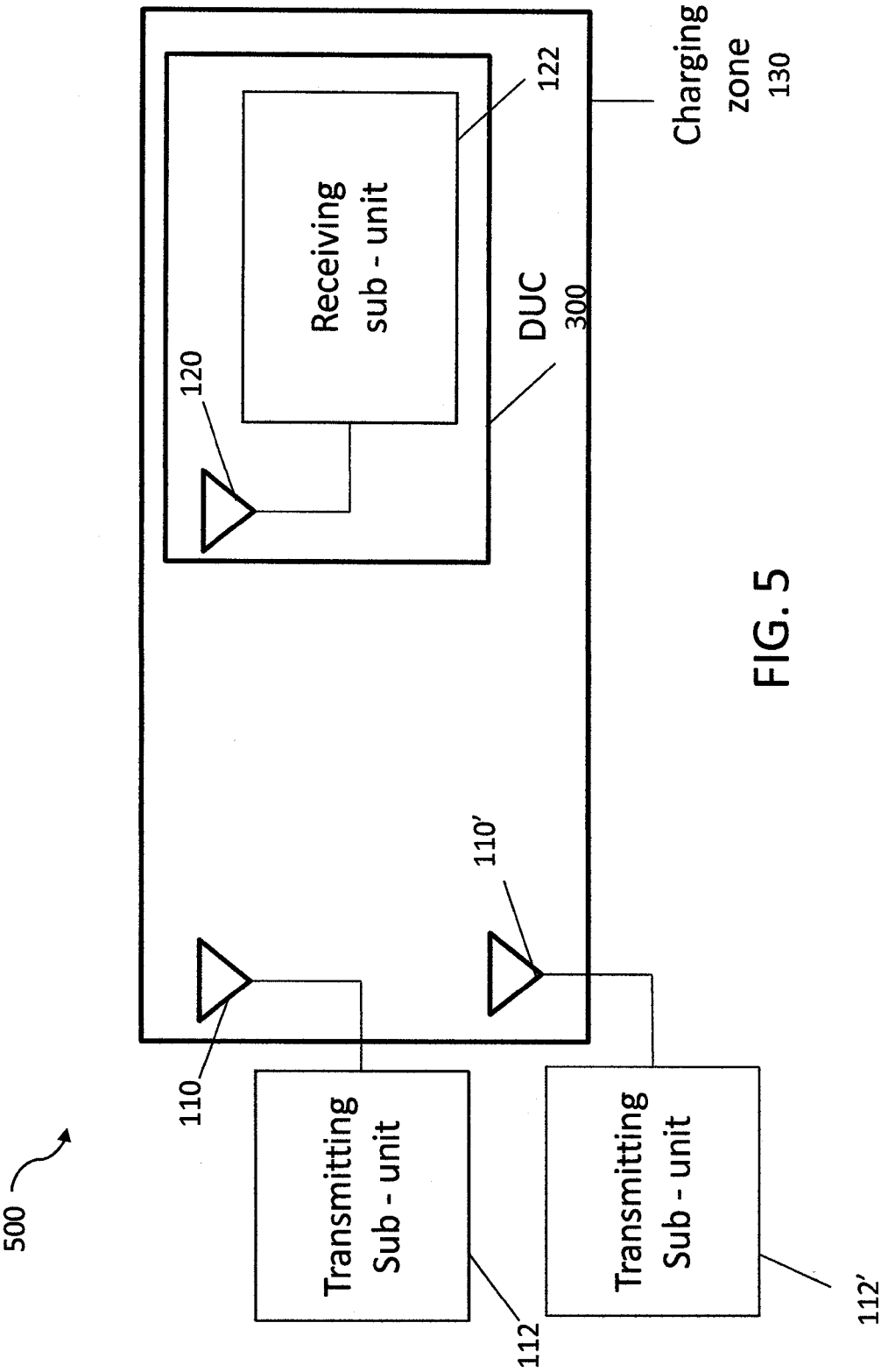


FIG. 5

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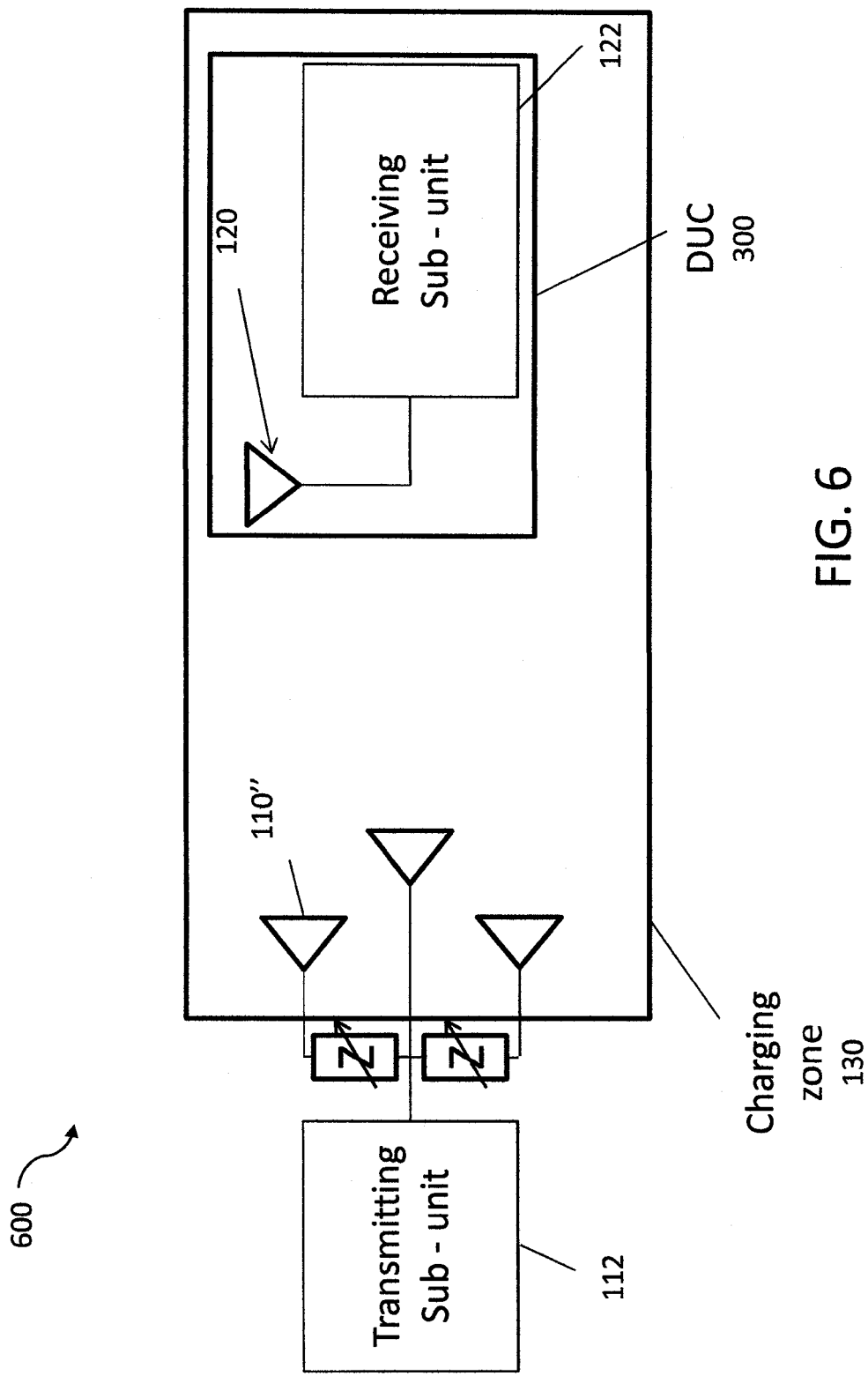


FIG. 6

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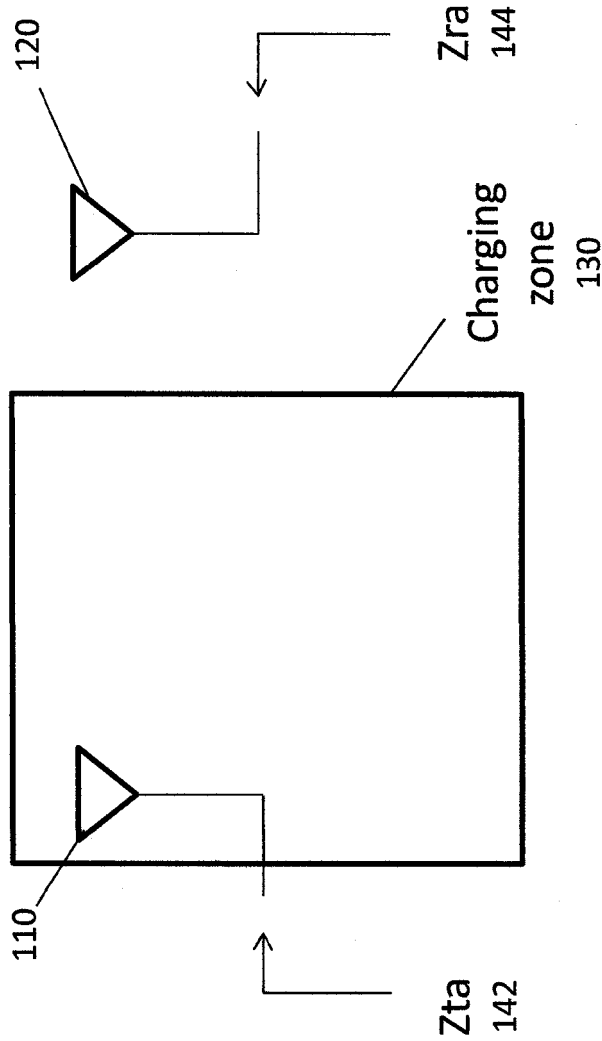


FIG. 7

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FIG. 8

Z_{ta}
impedance
1421

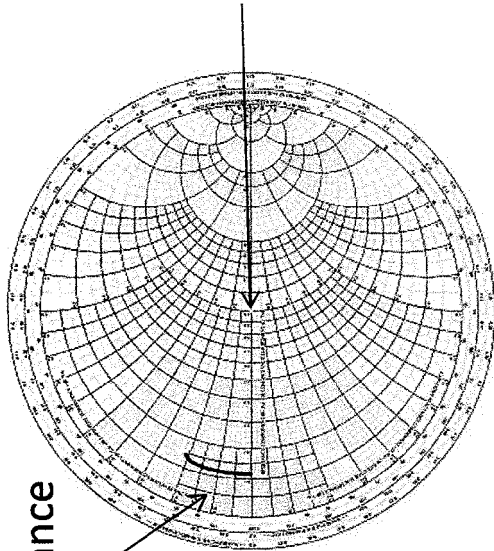


FIG. 10

Z_{ra}
impedance
1441

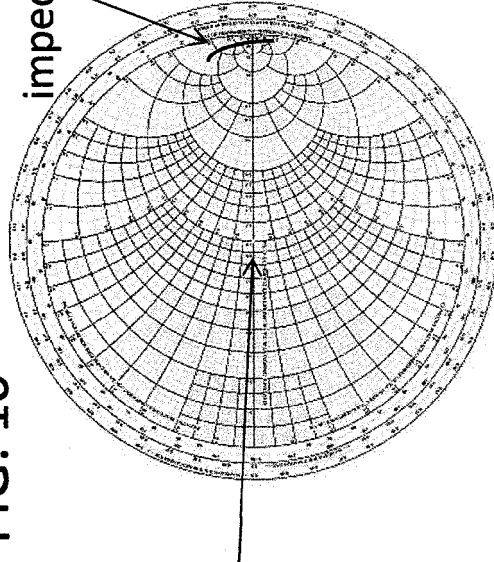


FIG. 9

0db
Tx
return loss
1425

S₁₁

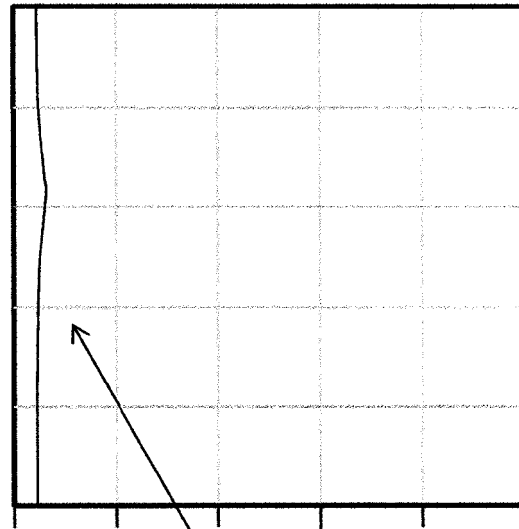
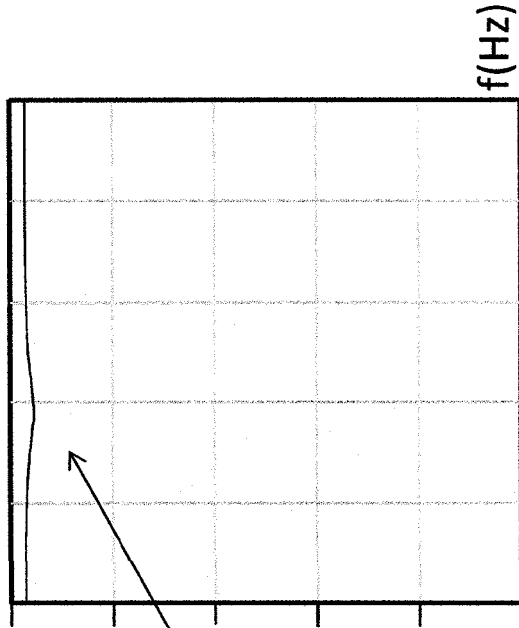


FIG. 11

0db
Rx
return loss
1445

S₂₂



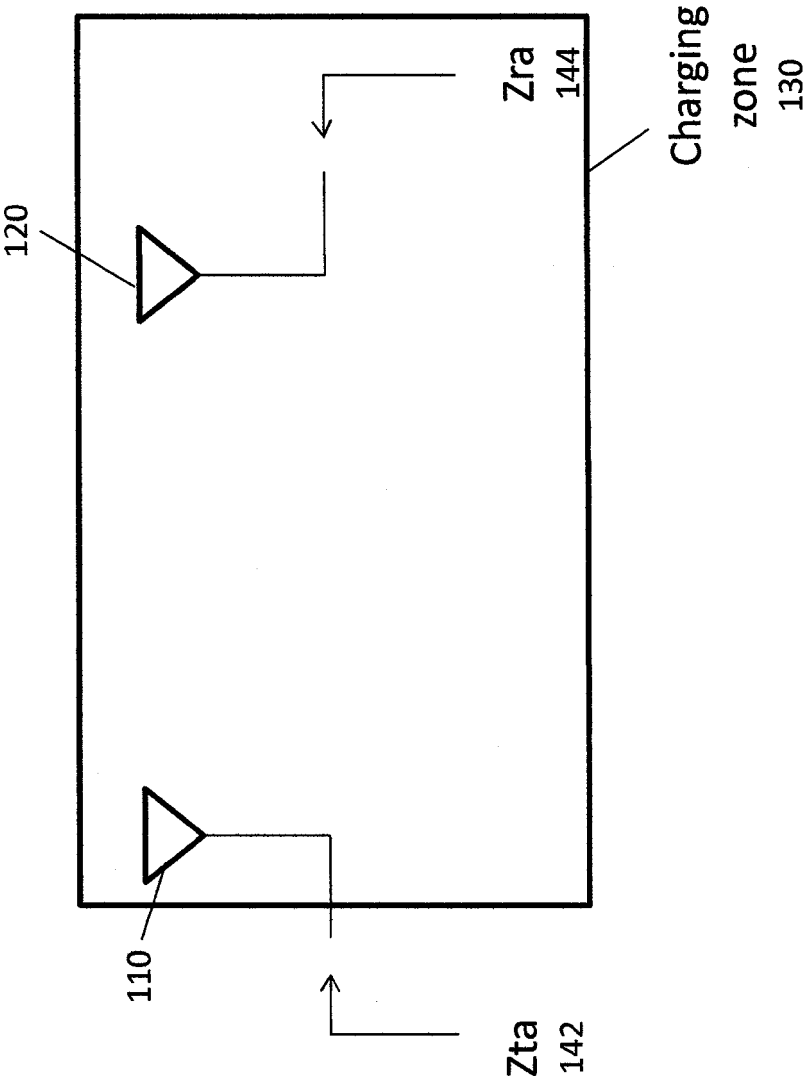


FIG. 12

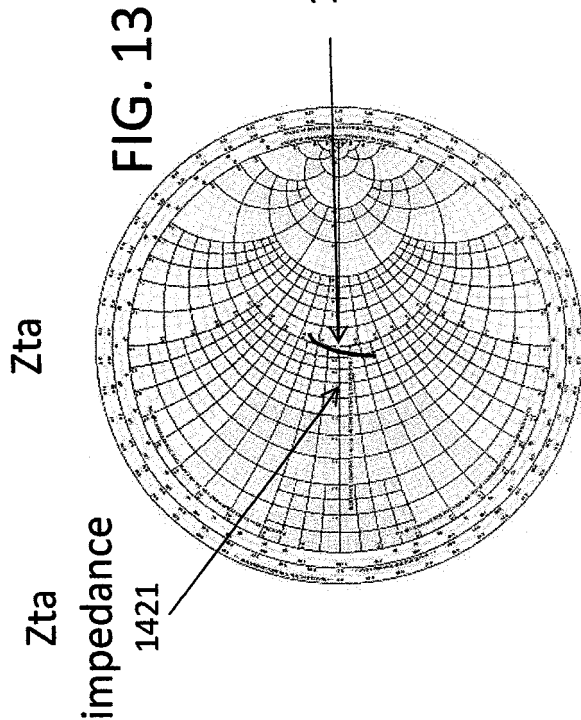
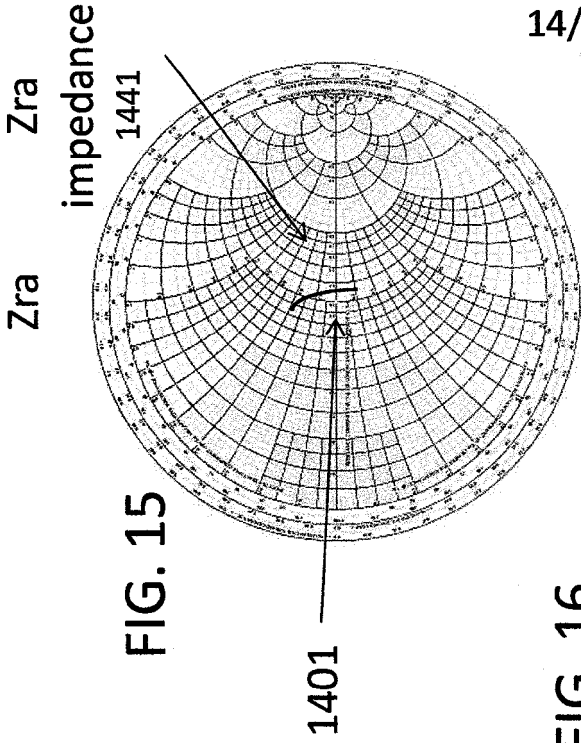


FIG. 16

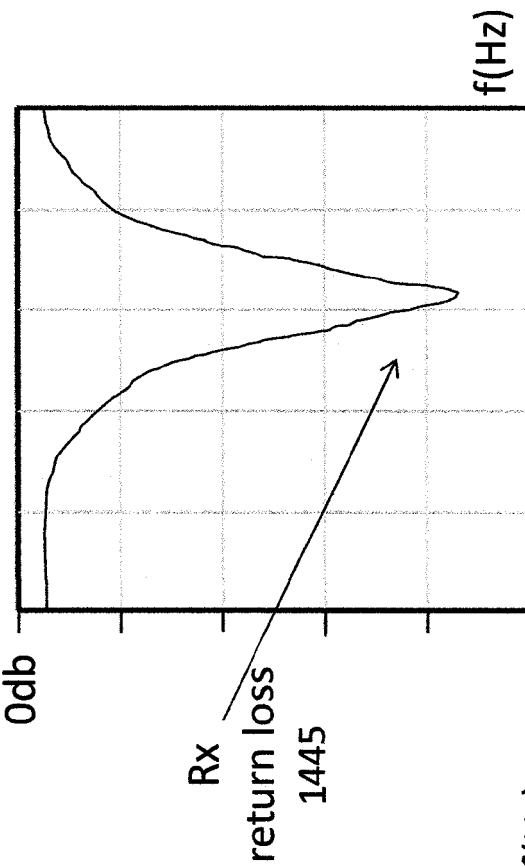
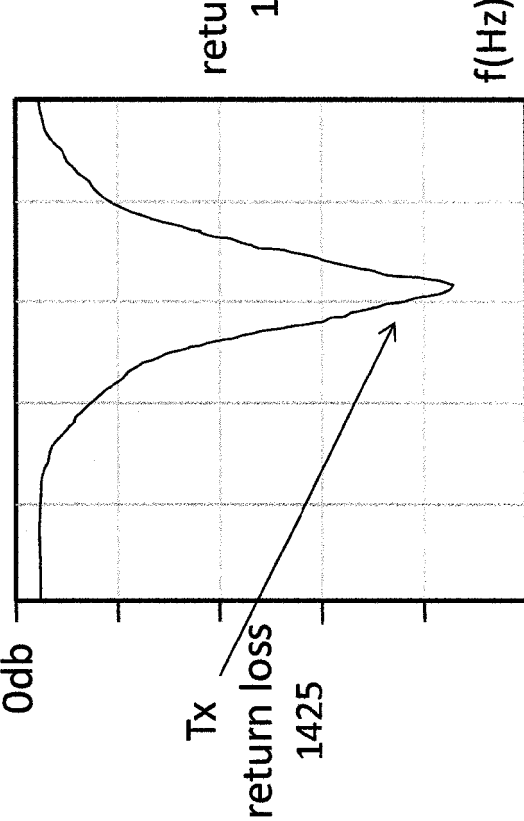


FIG. 14



DUC outside the charging zone
Unmatched system

DUC inside the charging zone
Matched system

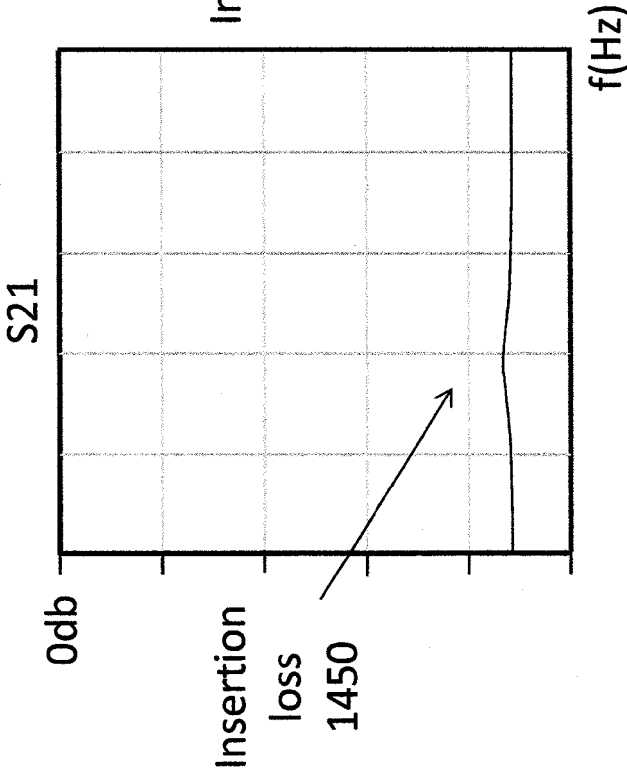


FIG. 17A

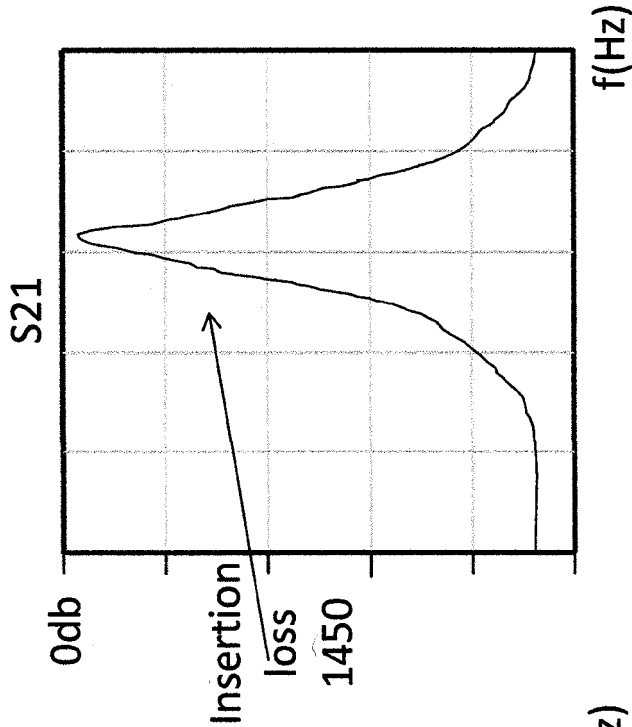


FIG. 17B

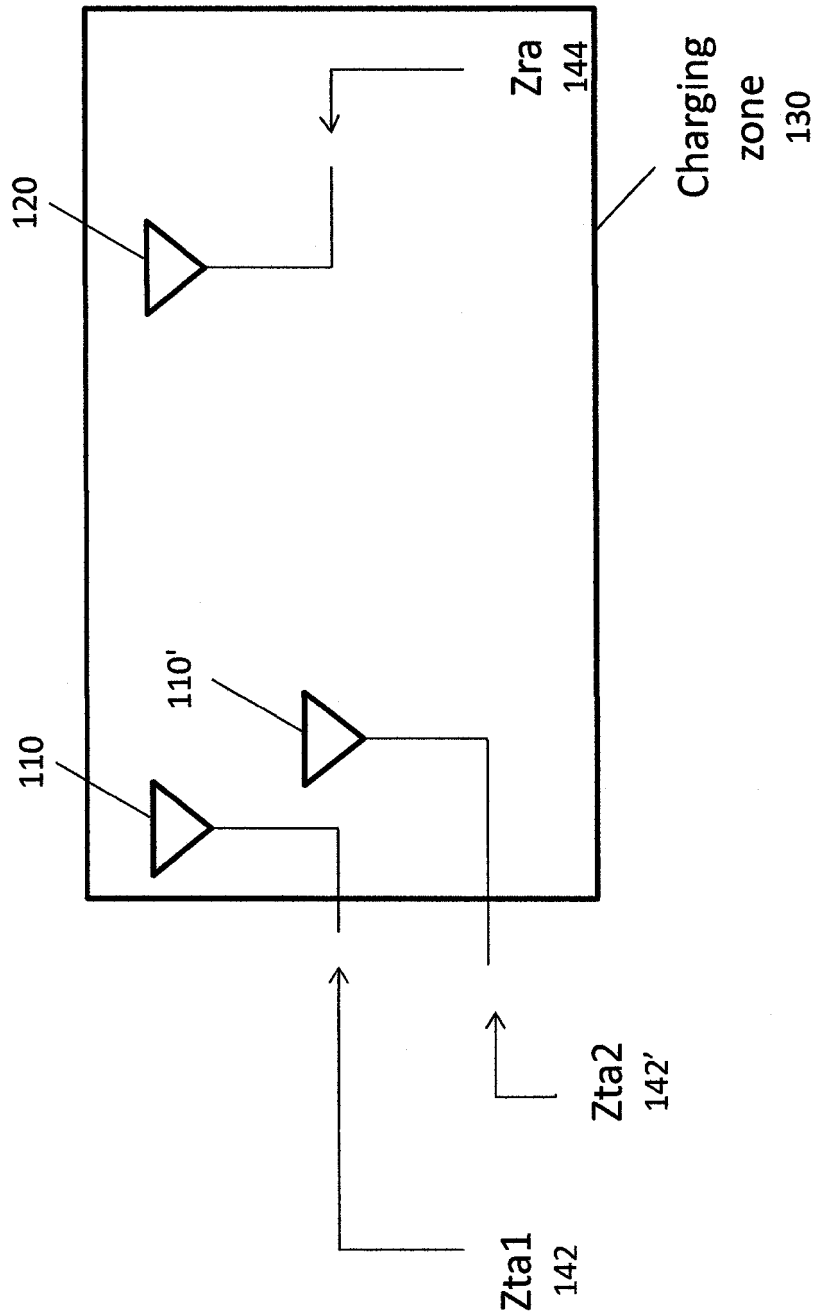
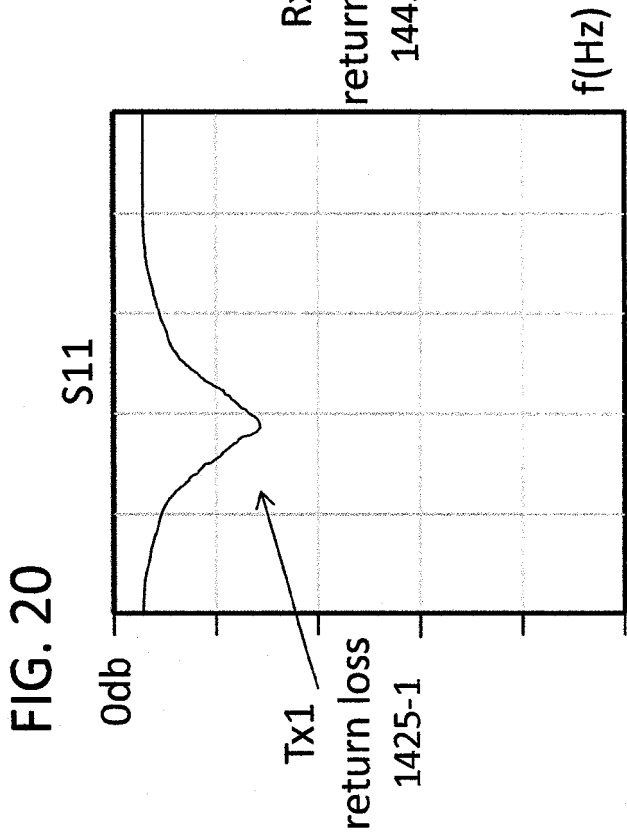
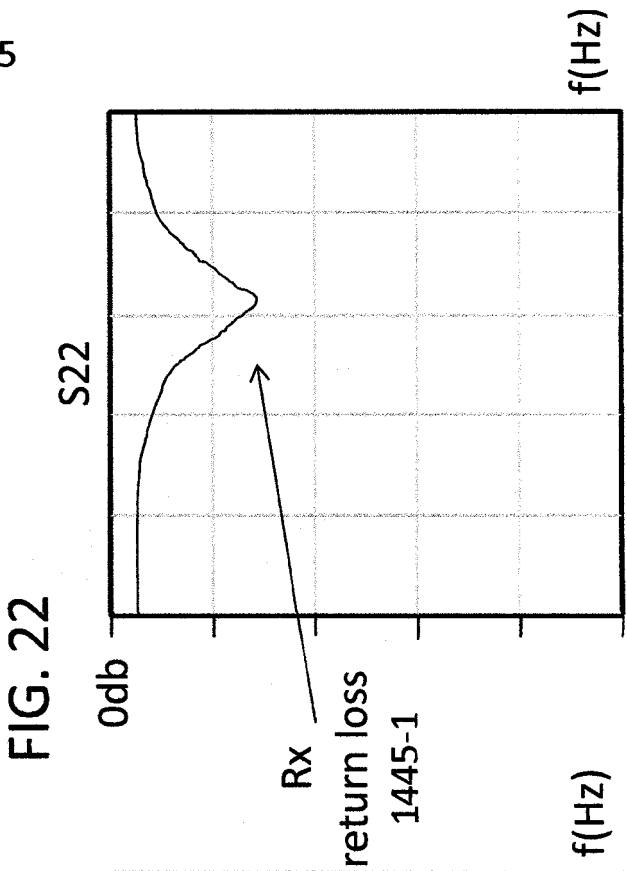
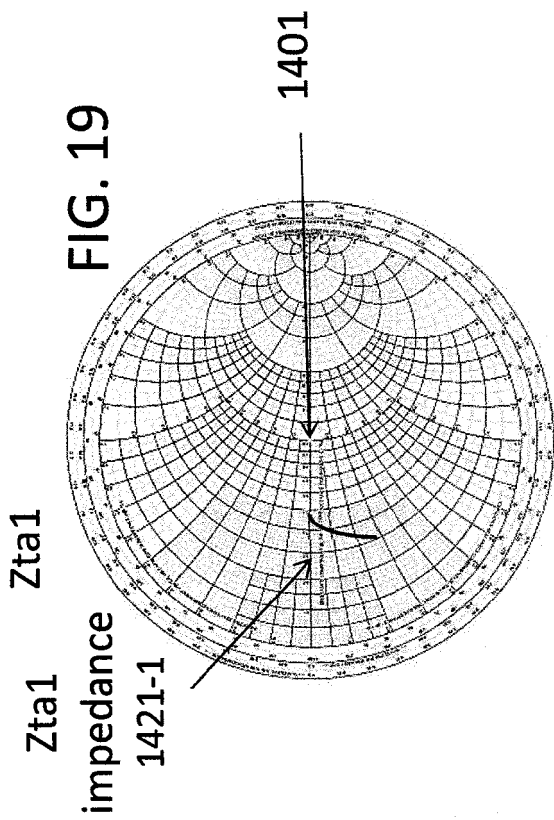
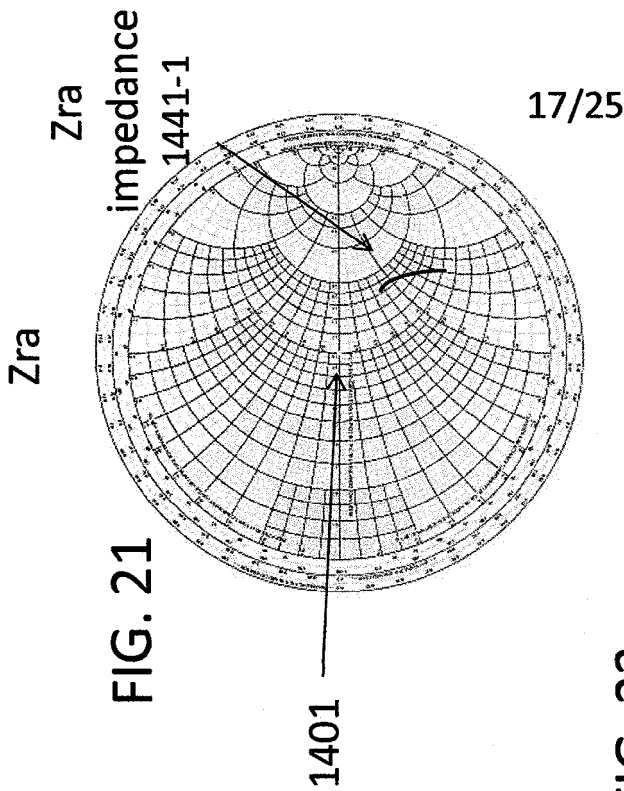
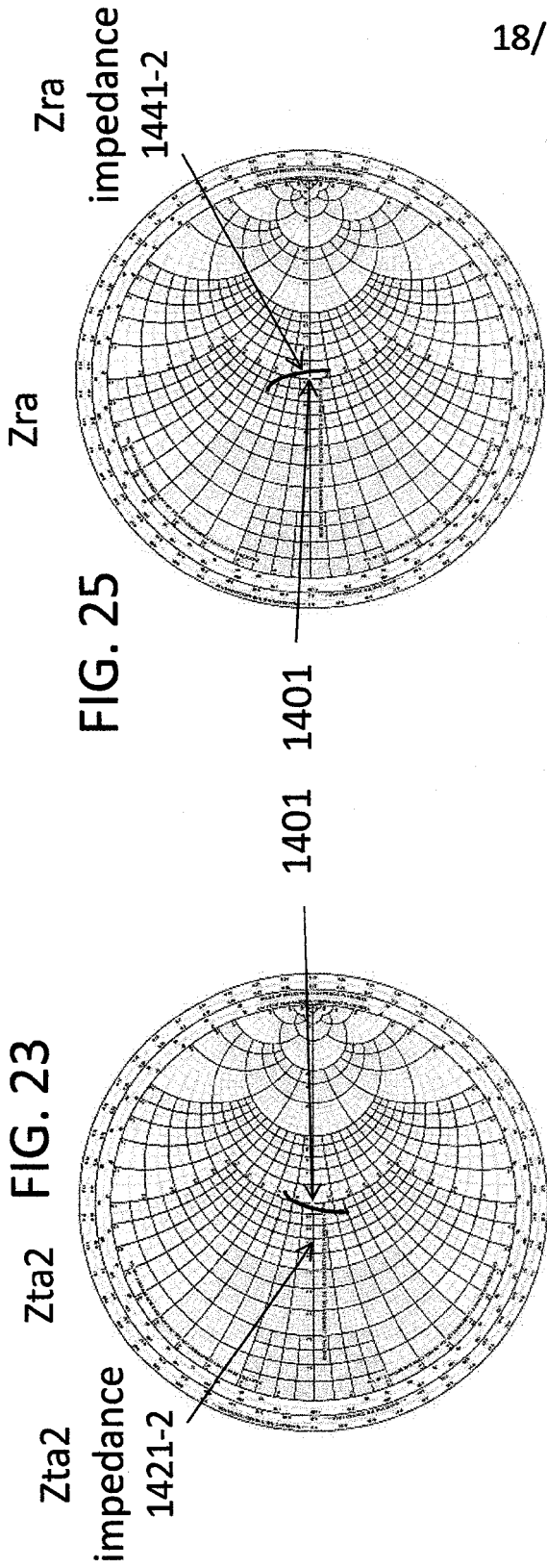


FIG. 18





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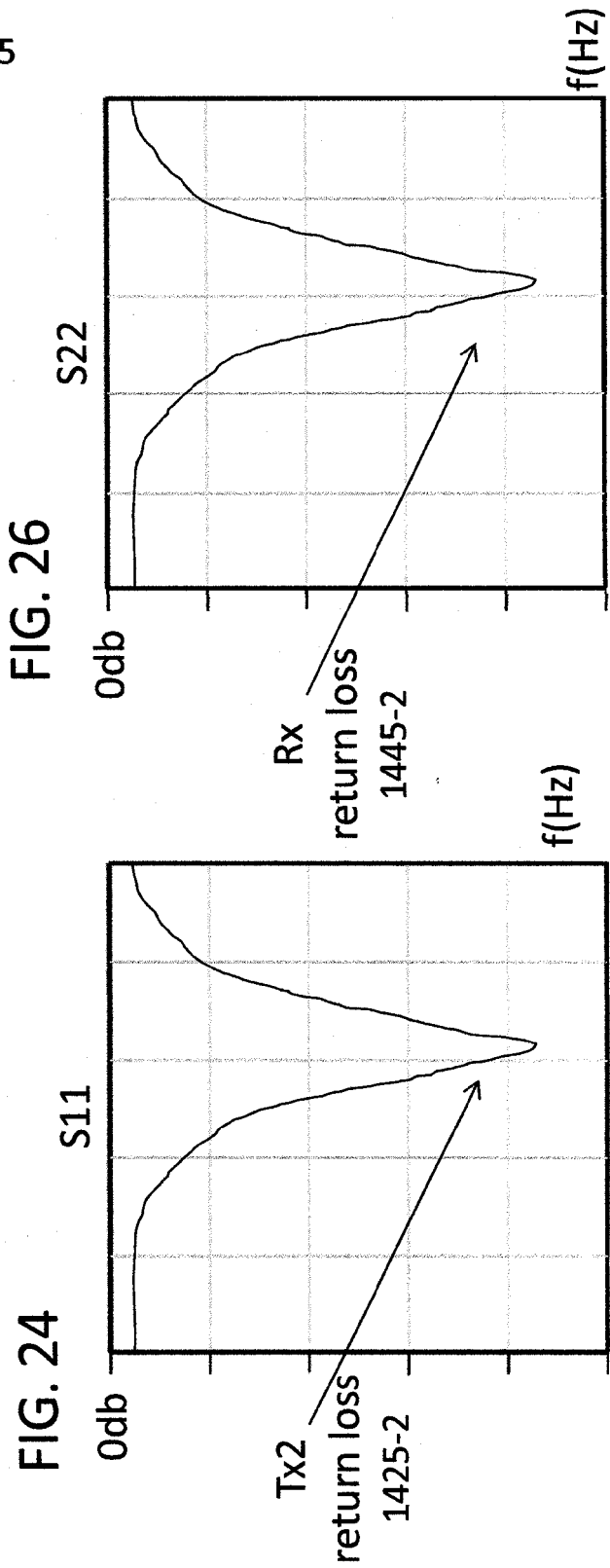


FIG. 27A

Tx1 is coupled to Rx
not optimal matched
system

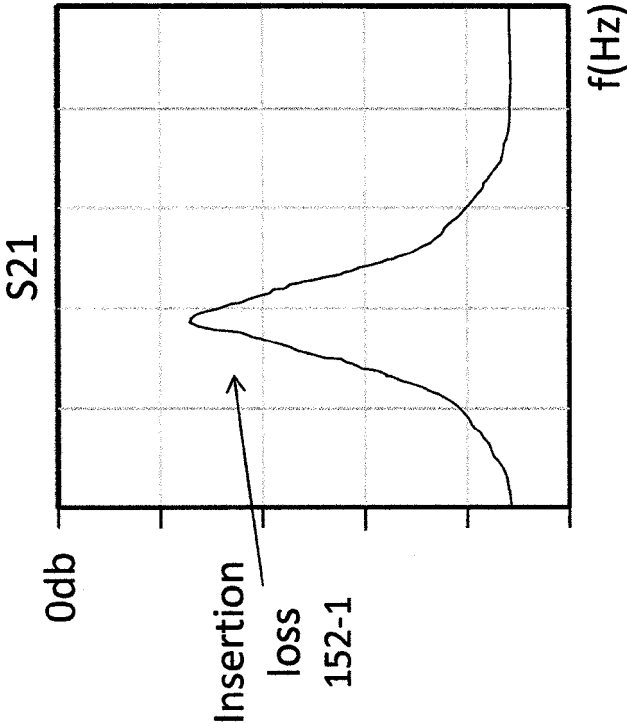
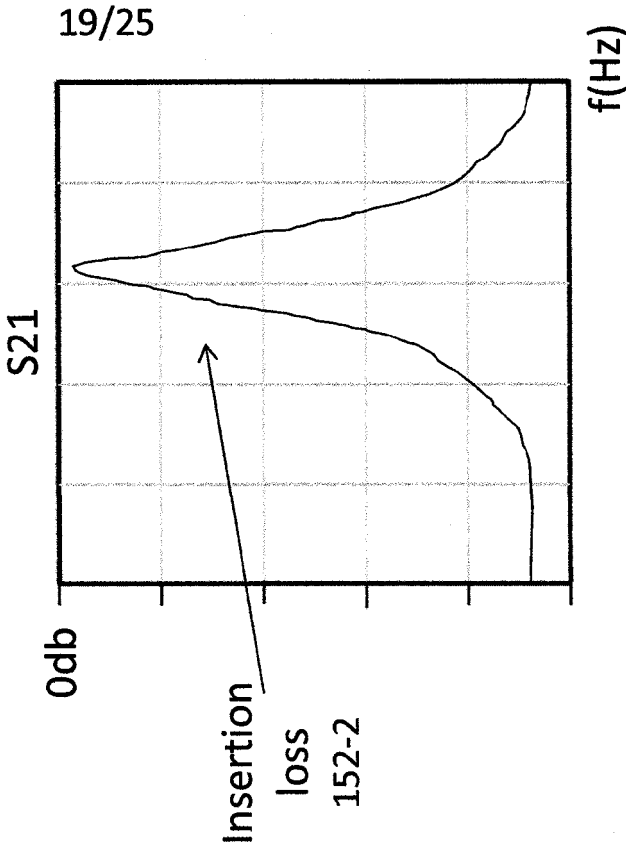


FIG. 27B

Tx2 is coupled to Rx
Optimal Matched
system



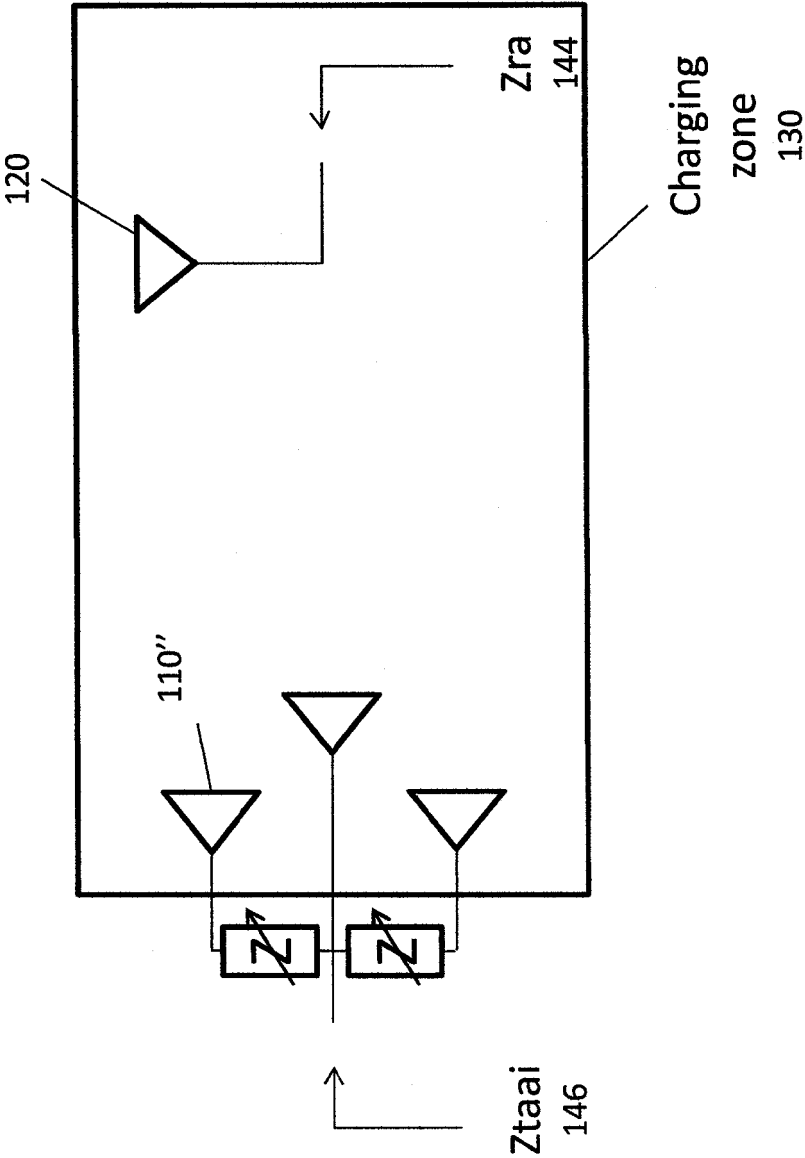
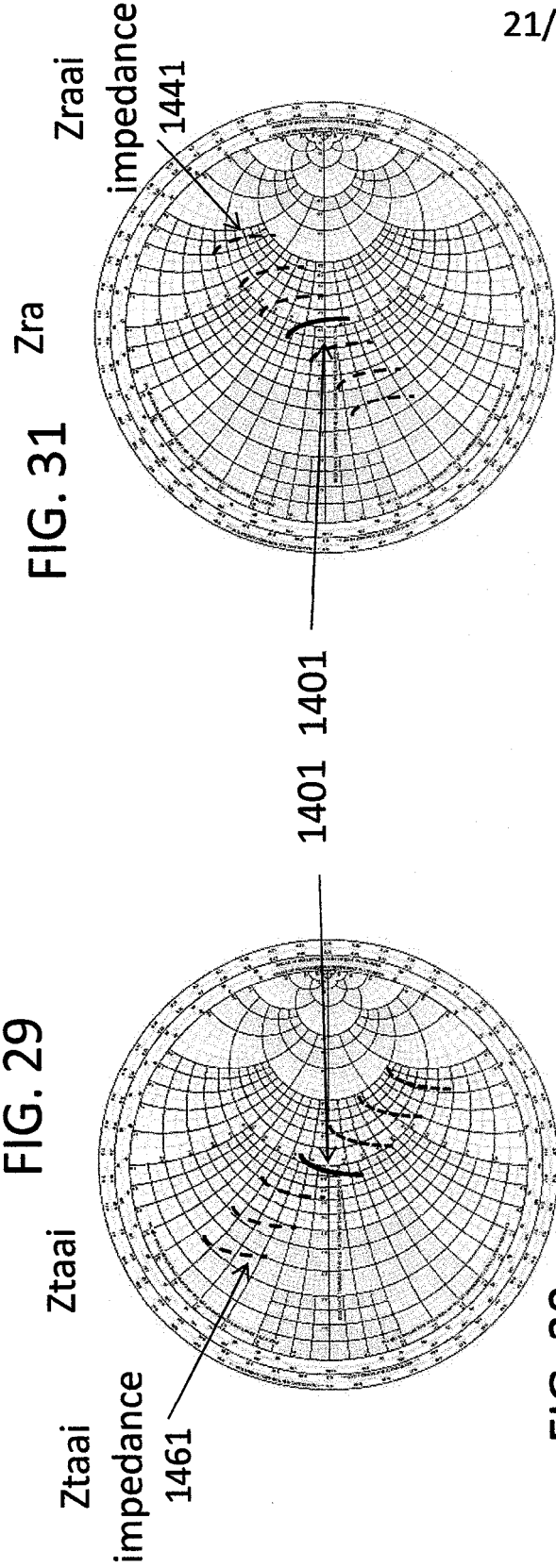
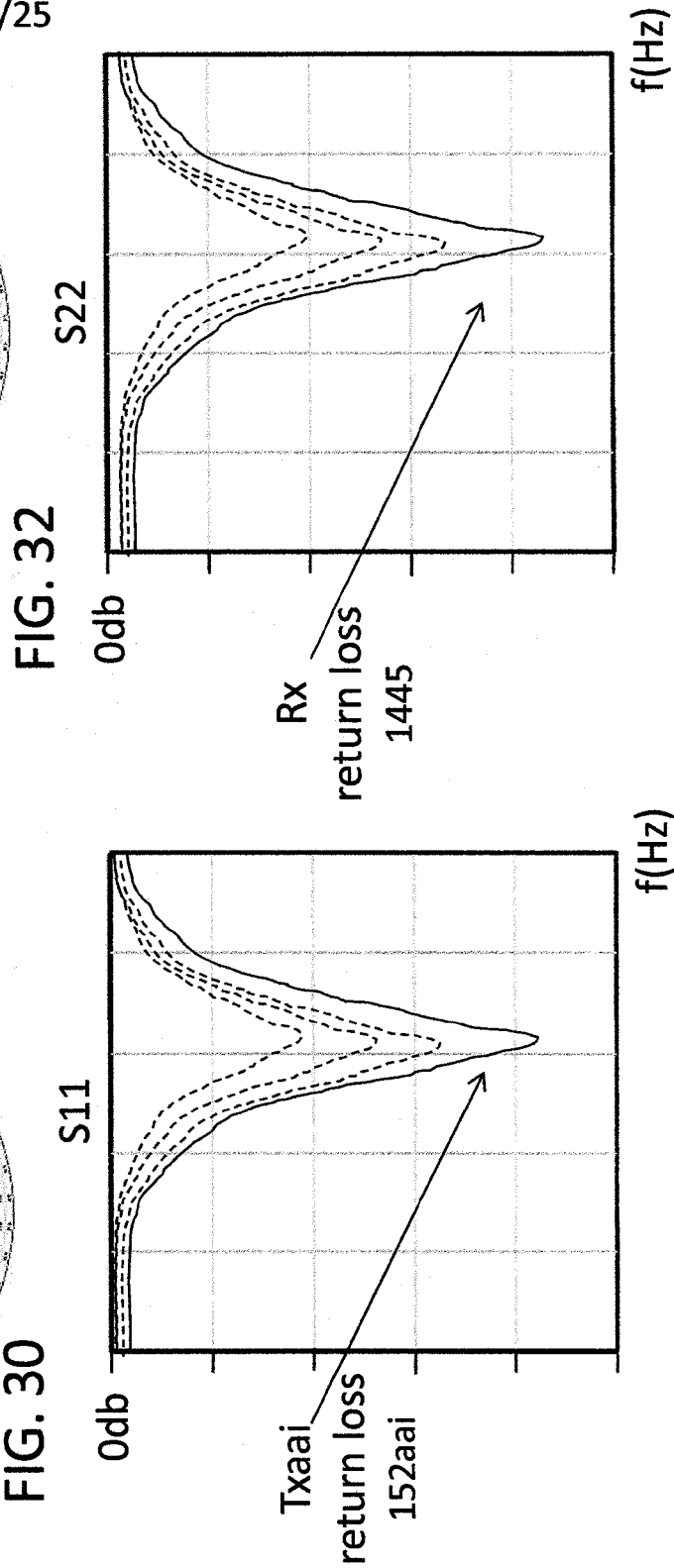


FIG. 28



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Txaai is tuned to be
coupled to Rx
Optimal Matched
system

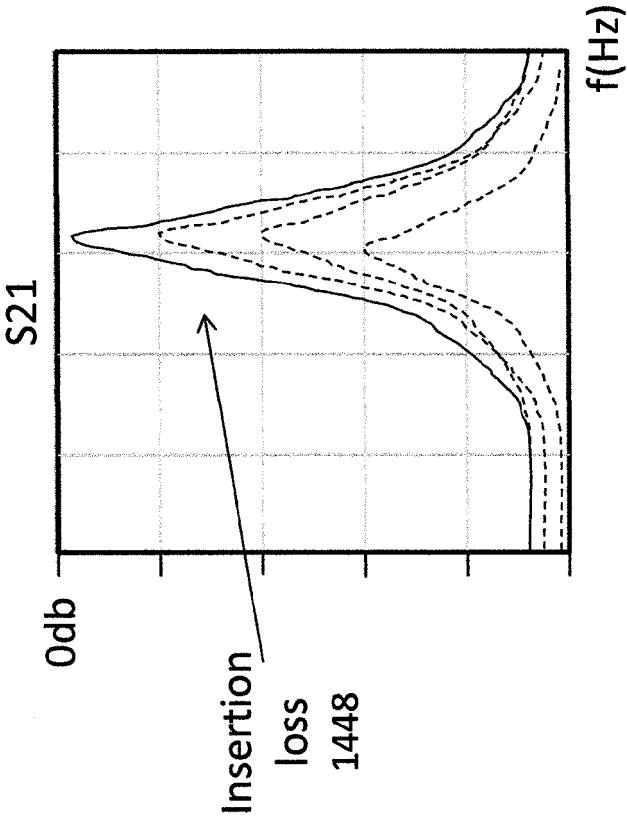


FIG. 33

FIG. 36

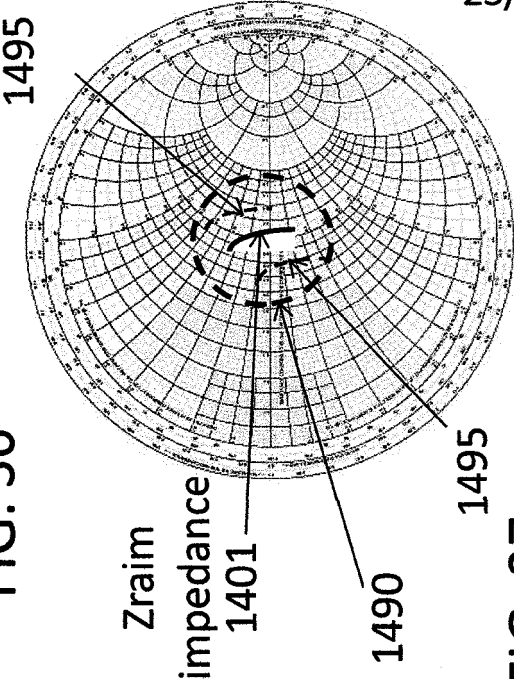


FIG. 37

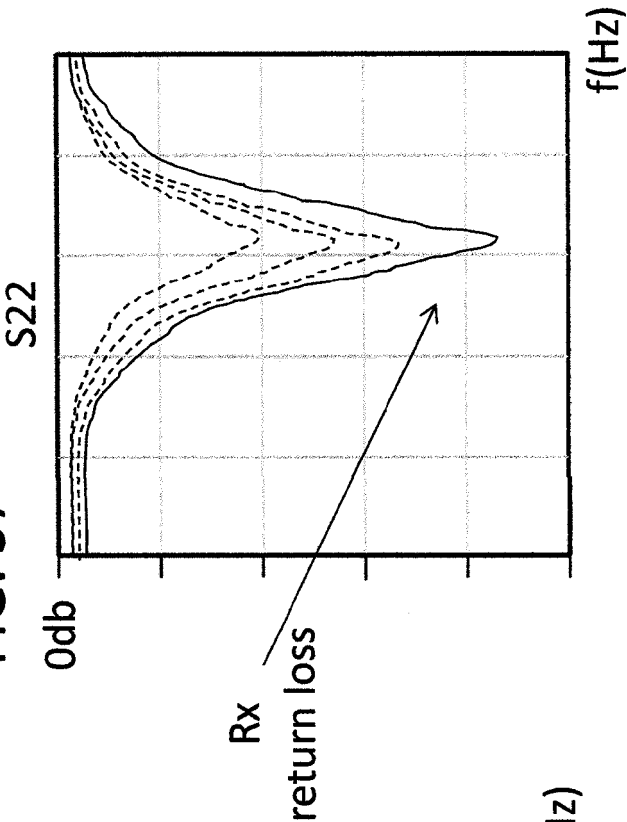


FIG. 34

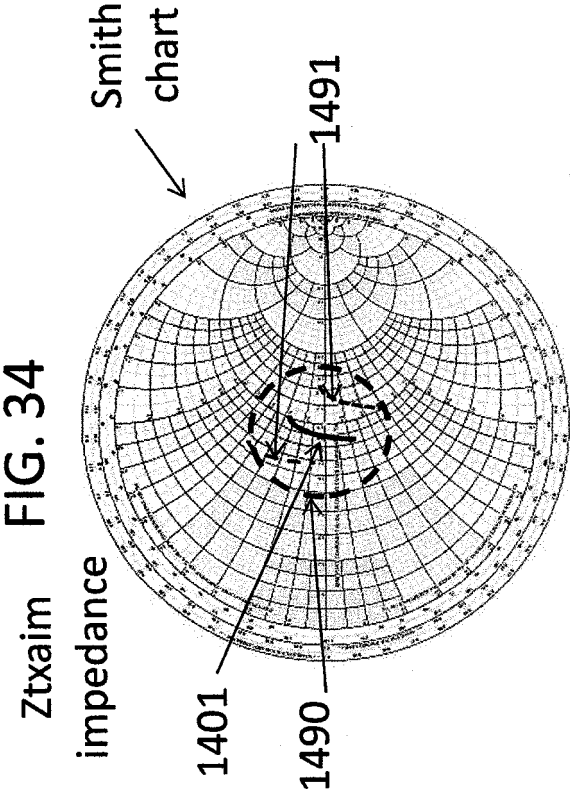
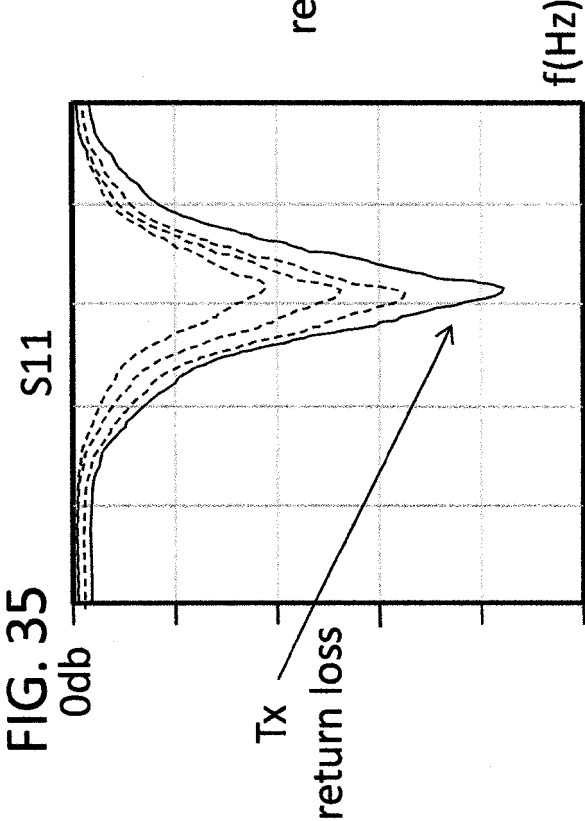


FIG. 35



Txaim is tuned to be
coupled to Rx
Optimal Matched
system

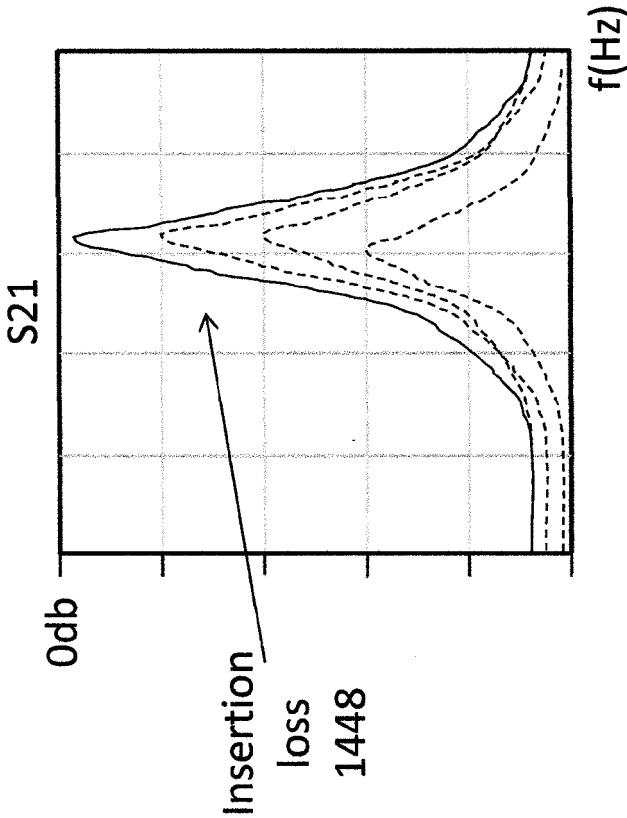


FIG. 38

