

FIG. 1 (a)

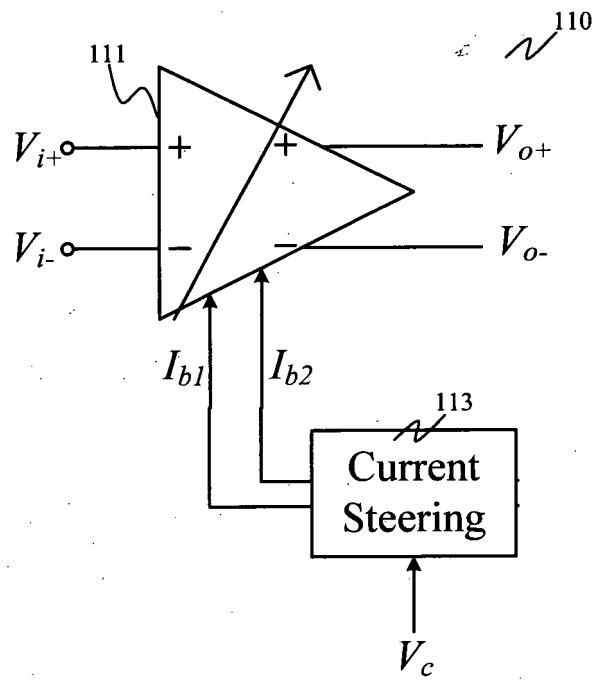
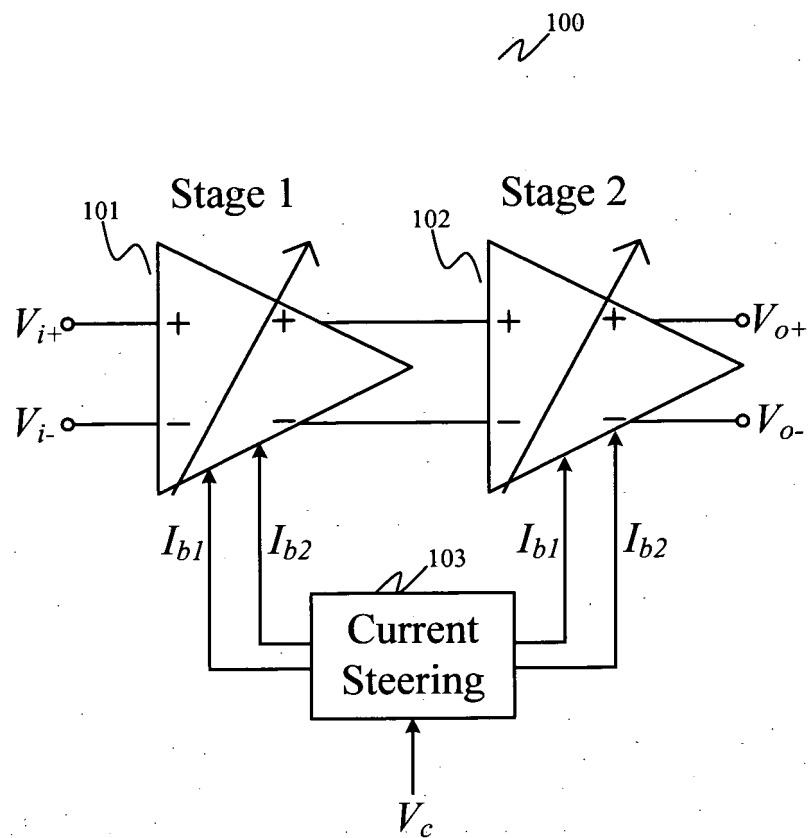
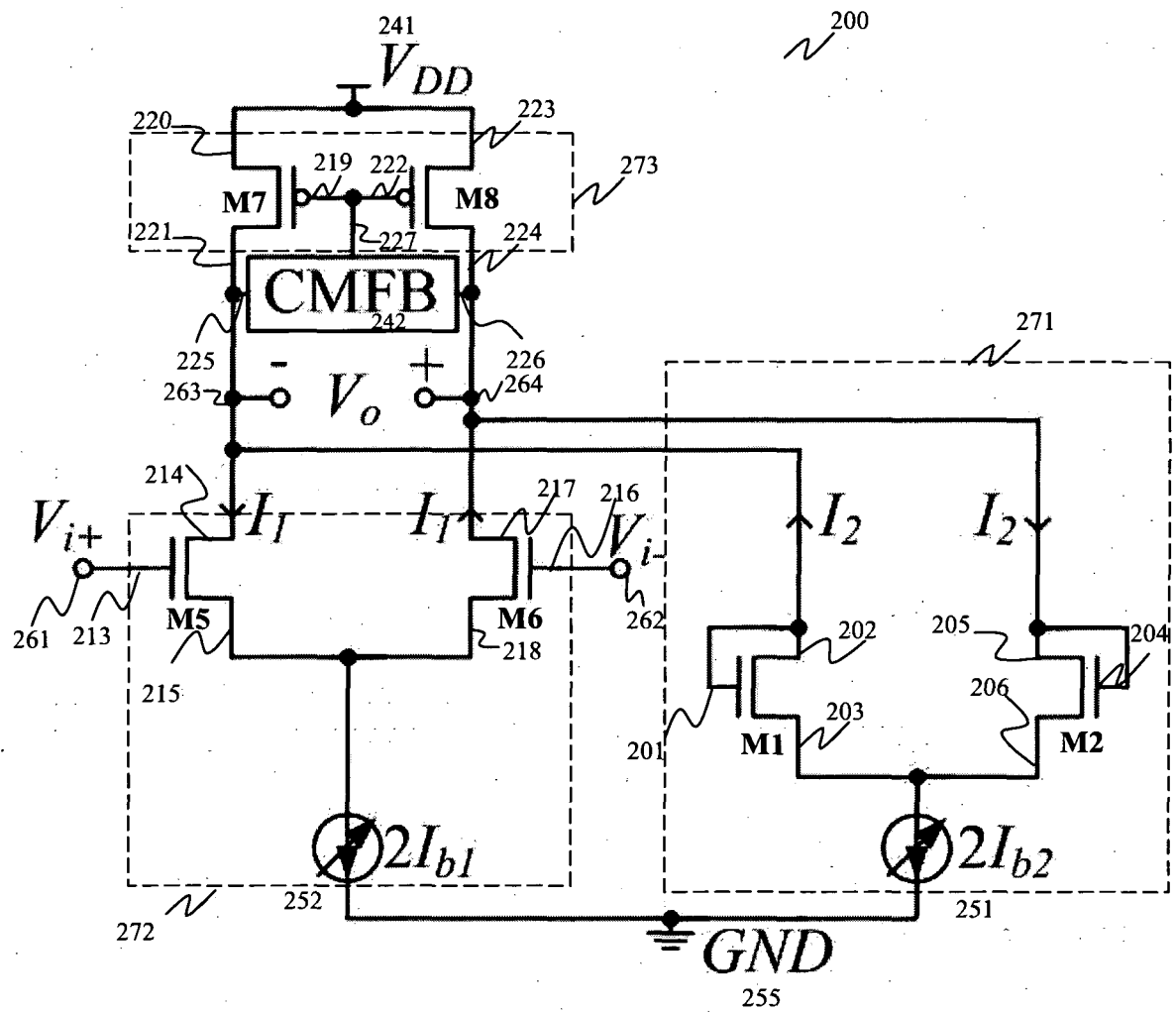


FIG. 1 (b)



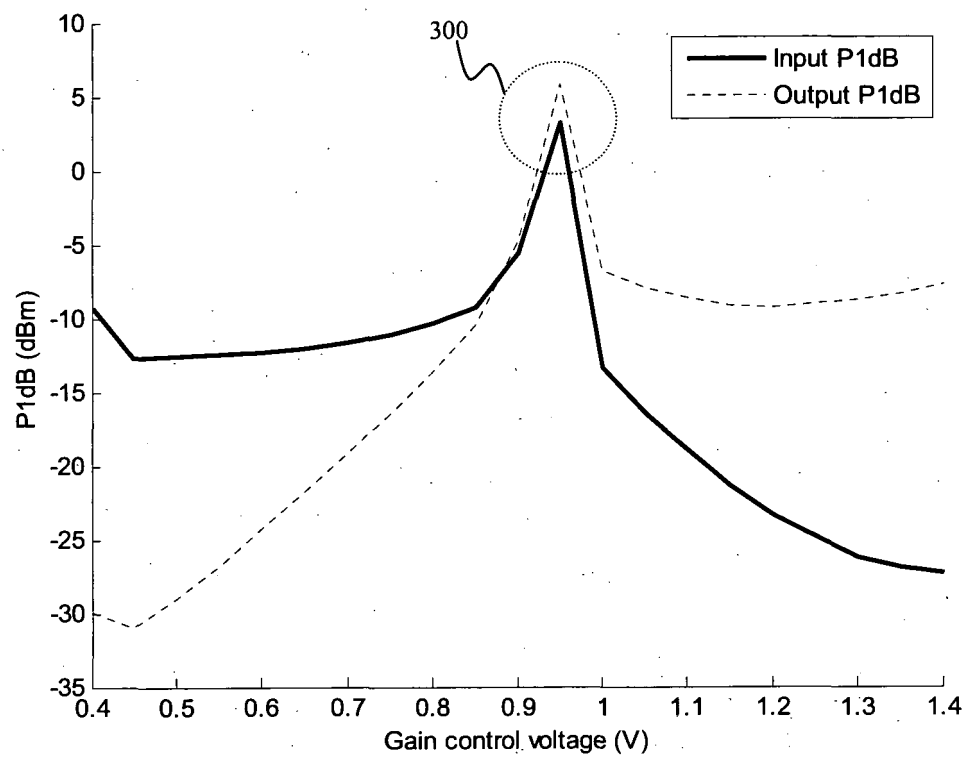
3 / 11

FIG. 2



4 / 11

FIG. 3



5 / 11

FIG. 4

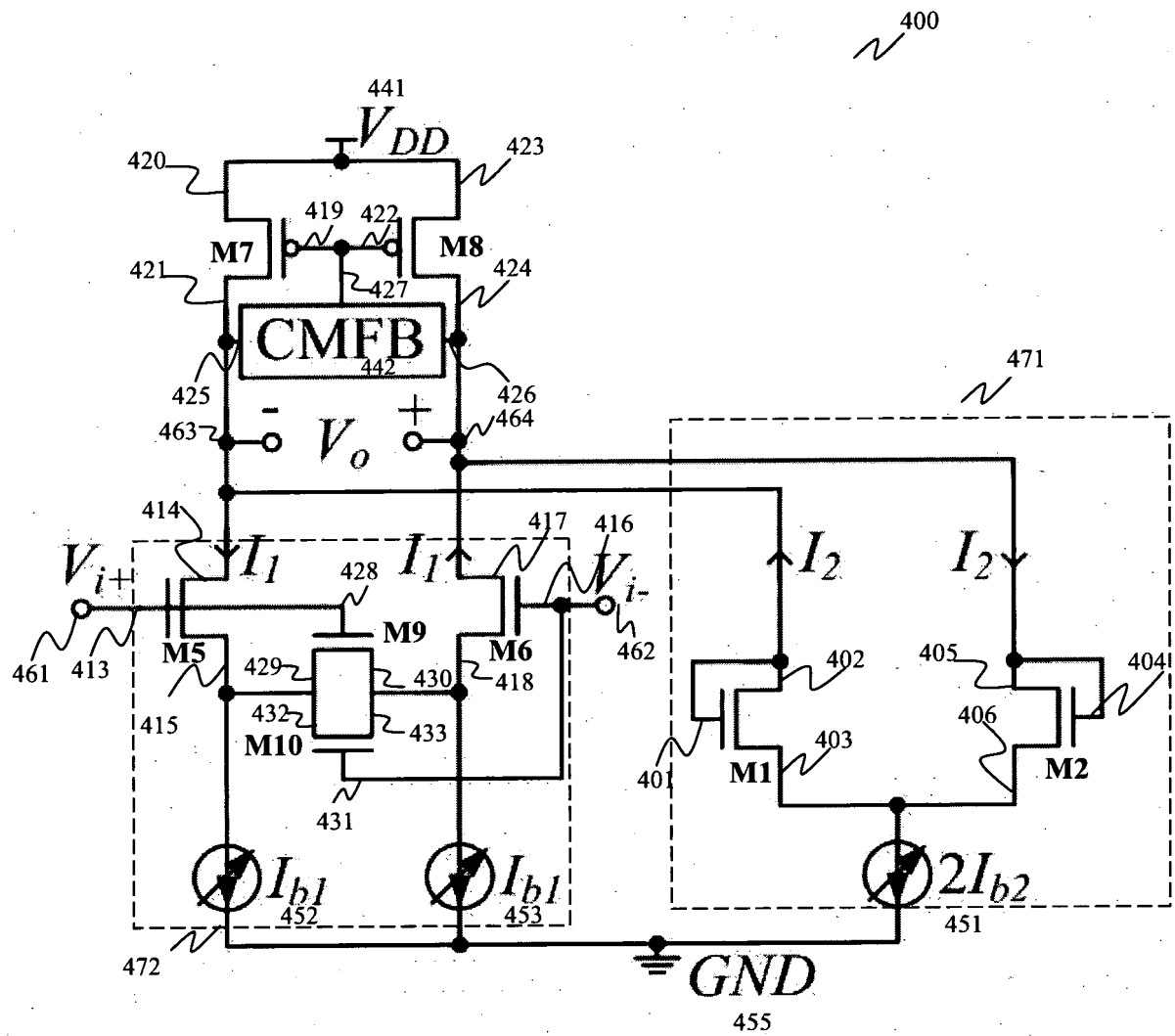
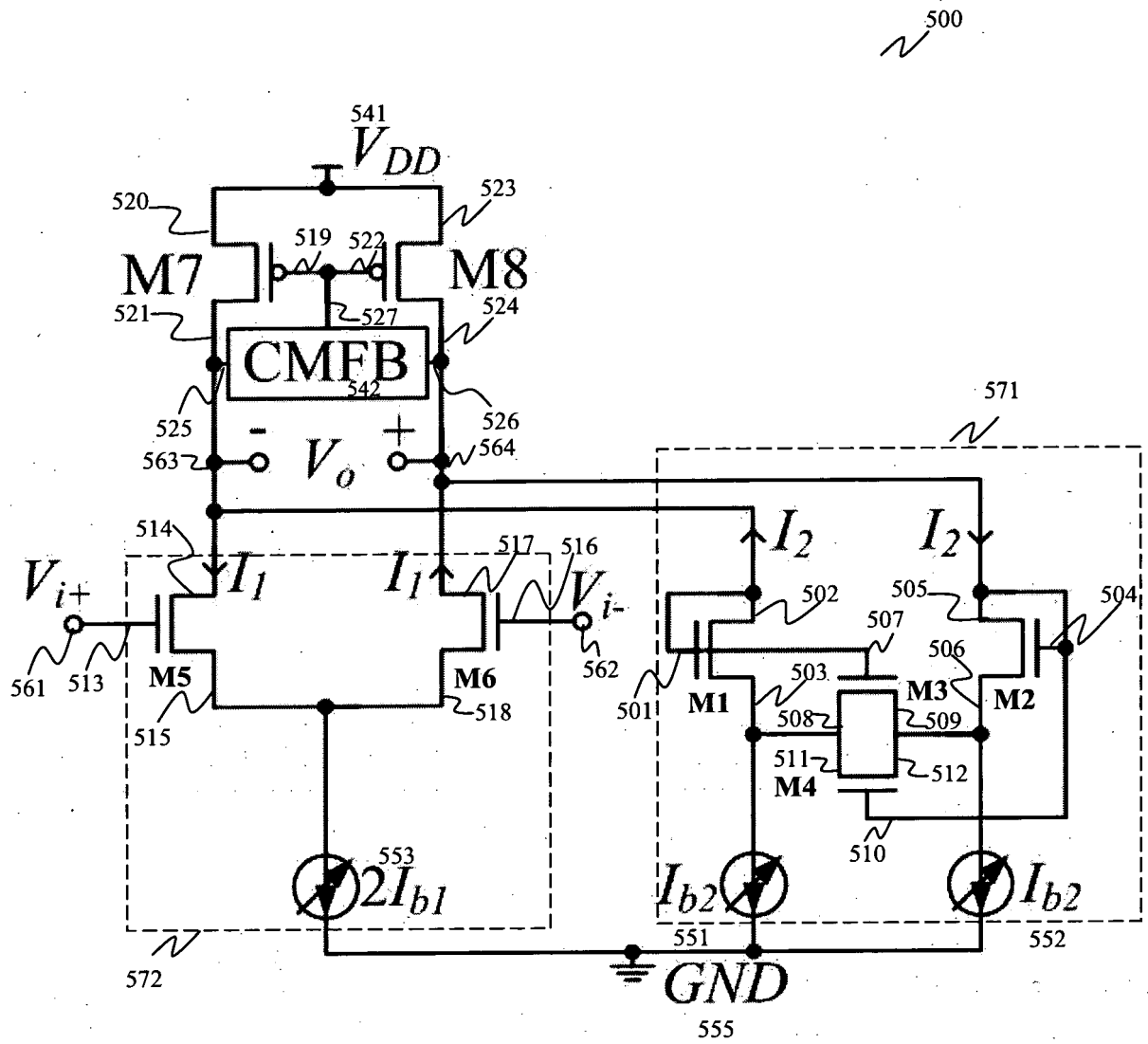


FIG. 5



7 / 11

FIG. 6

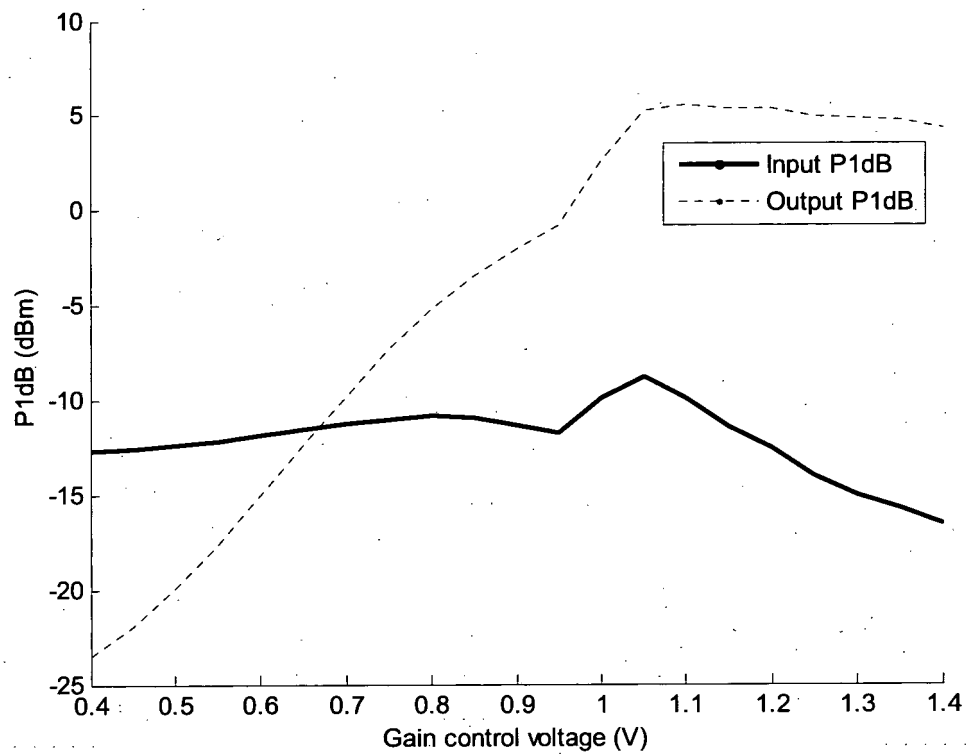
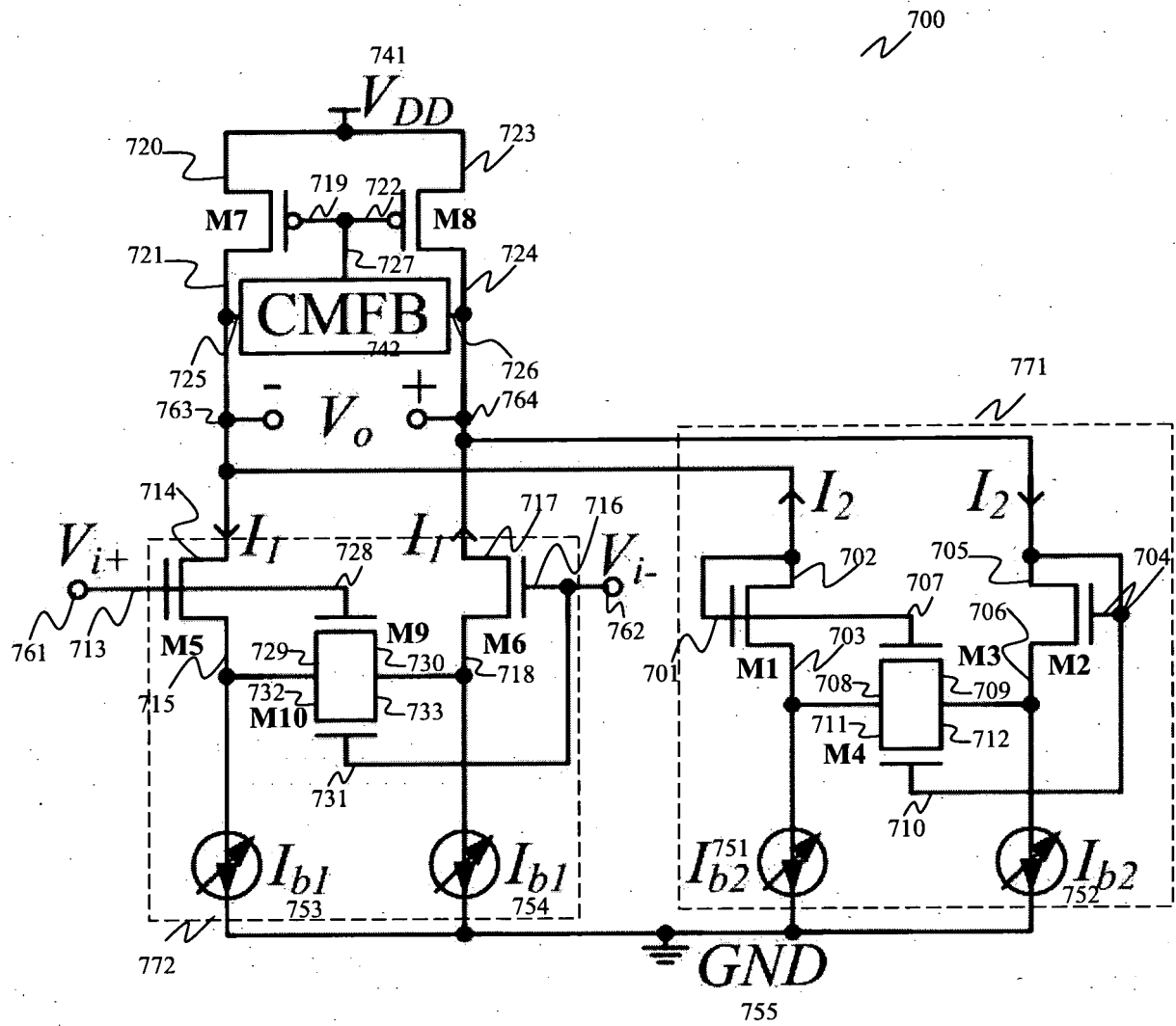


FIG. 7



9 / 11

FIG. 8

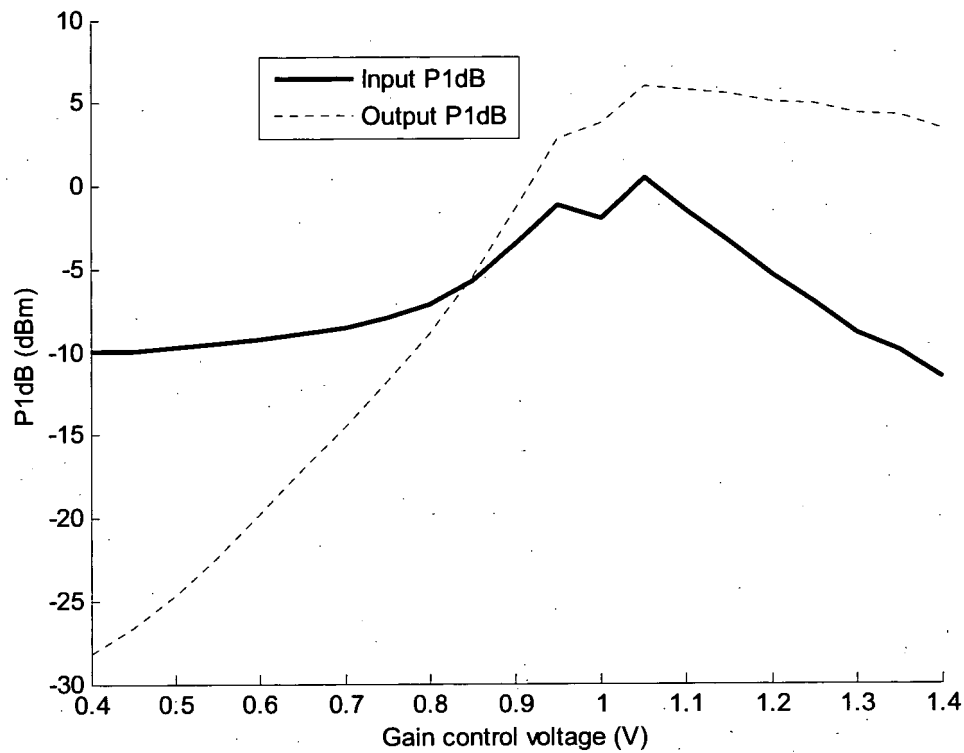


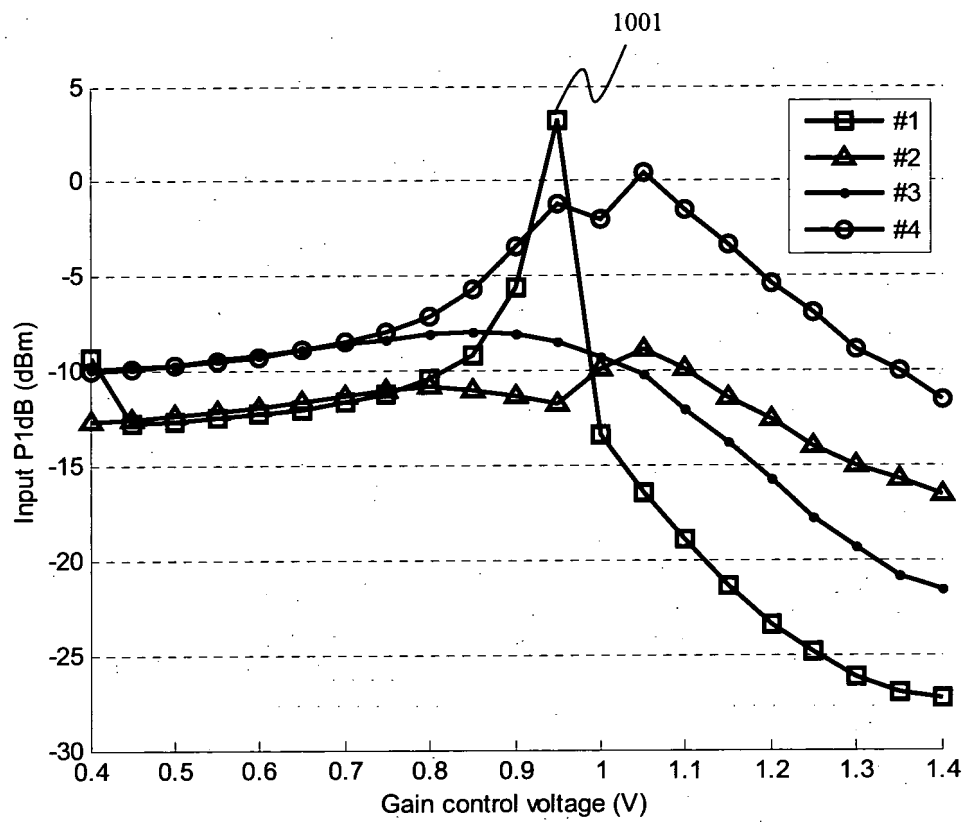
FIG. 9

900

Number of cases for comparison

| VGA number | Input stage            | gm load            | Classification        |
|------------|------------------------|--------------------|-----------------------|
| #1         | No degeneration        | No degeneration    | Conventional          |
| #2         | <b>No degeneration</b> | <b>Degenerated</b> | <b>This invention</b> |
| #3         | Degenerated            | No degeneration    | Conventional          |
| #4         | <b>Degenerated</b>     | <b>Degenerated</b> | <b>This invention</b> |

FIG. 10



11 / 11

FIG. 11

