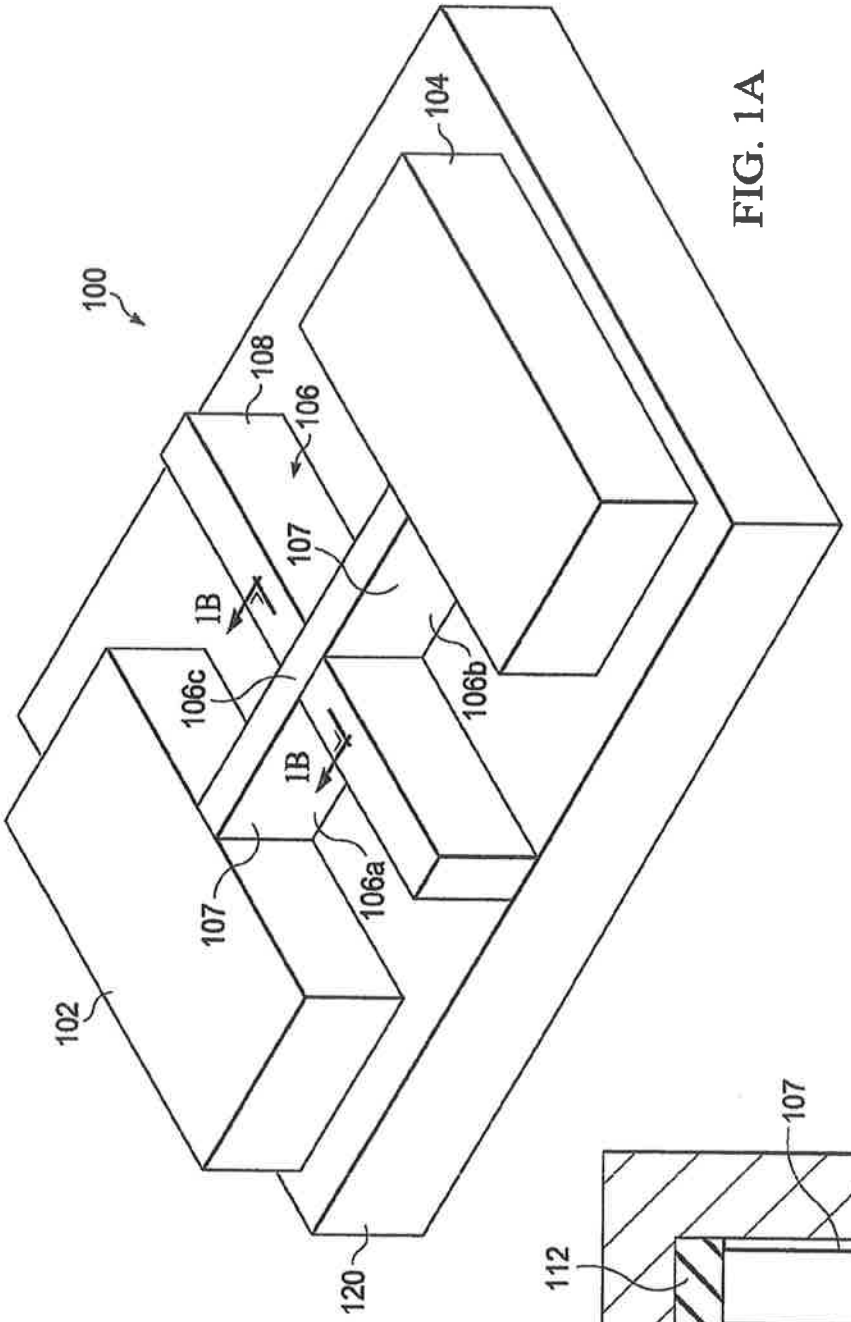

100
102
104
106
106a
106b
106c
107
108
120
1B
1B

FIG. 1A

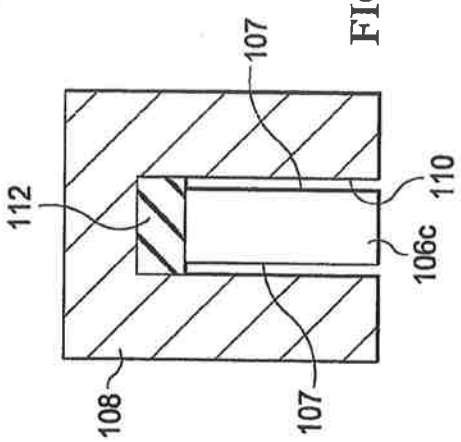

107
112
110
106c
108
107

FIG. 1B

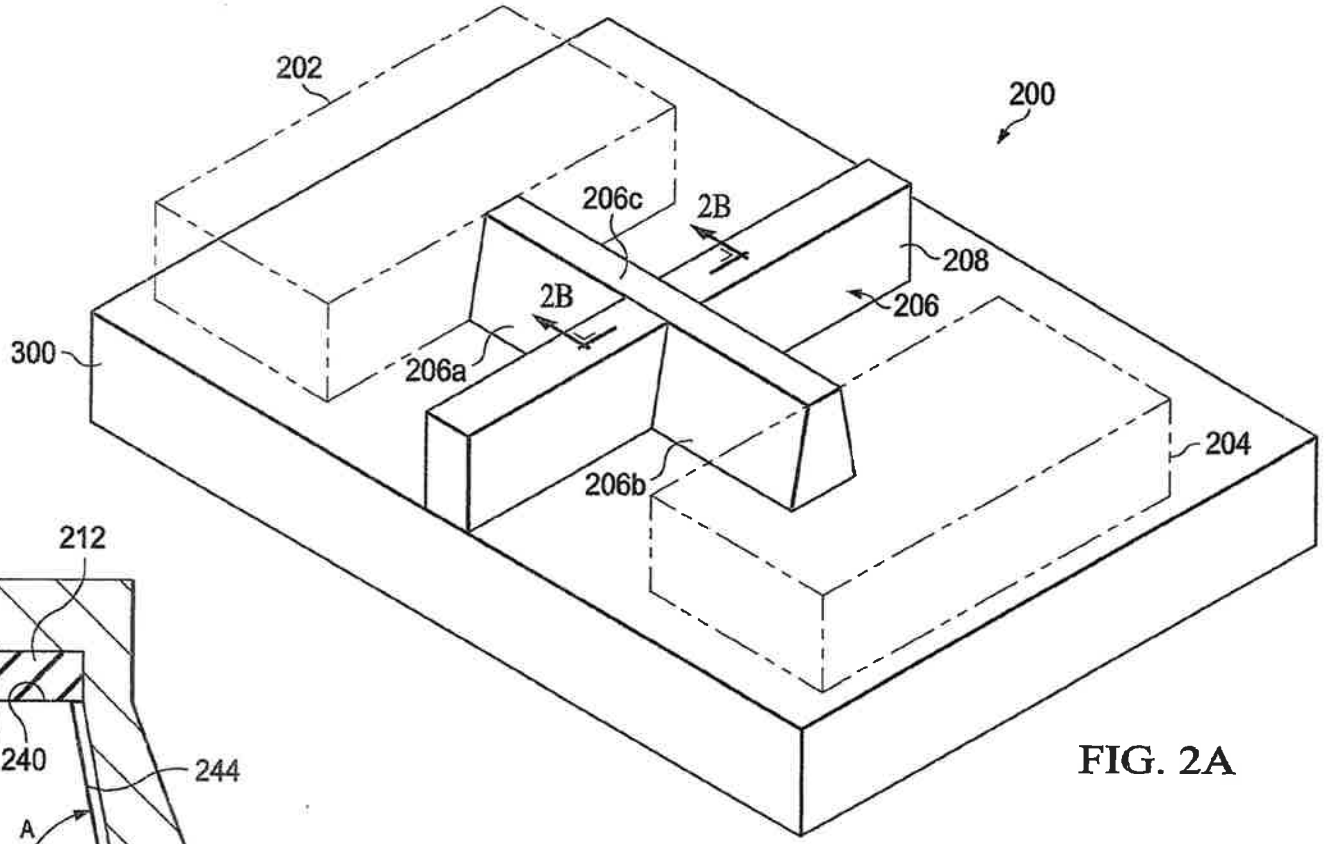

202
200
206c
2B
208
2B
206
300
206a
204
206b

FIG. 2A

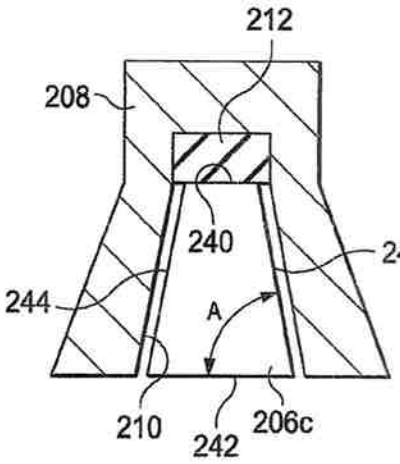
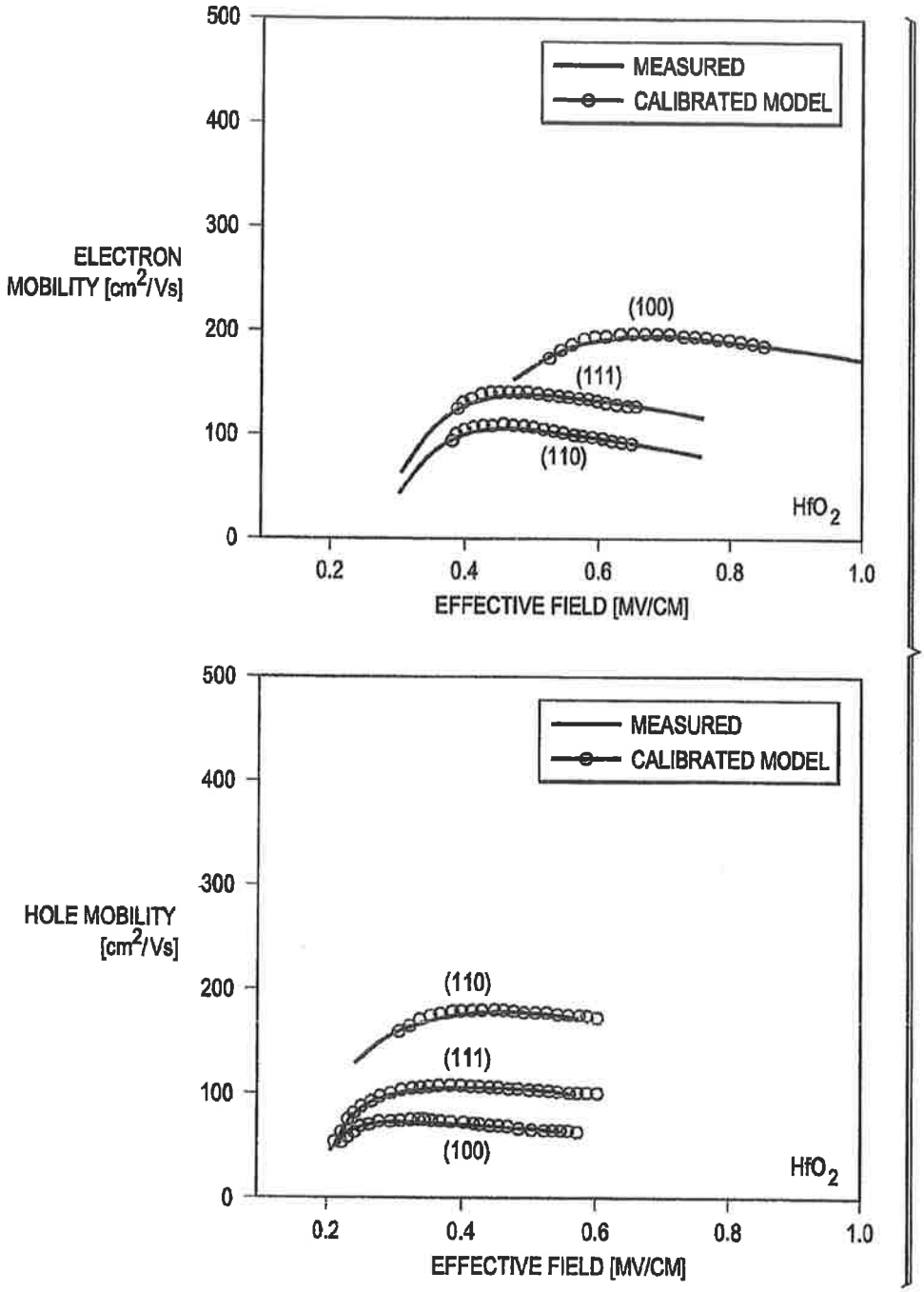

212
208
240
244
244
A
210
242
206c

FIG. 2B

FIG. 3


500
400
300
200
100
0
ELECTRON MOBILITY [cm²/Vs]
MEASURED
CALIBRATED MODEL
(100)
(111)
(110)
HfO2
0.2
0.4
0.6
0.8
1.0
EFFECTIVE FIELD [MV/CM]
500
400
300
200
100
0
HOLE MOBILITY [cm²/Vs]
MEASURED
CALIBRATED MODEL
(110)
(111)
(100)
HfO2
0.2
0.4
0.6
0.8
1.0
EFFECTIVE FIELD [MV/CM]

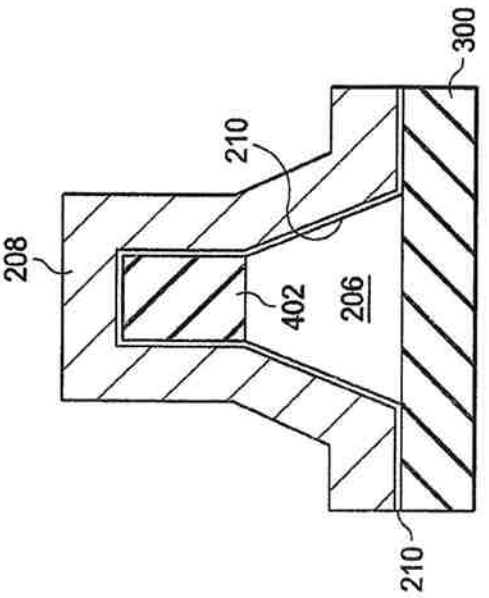


FIG. 6

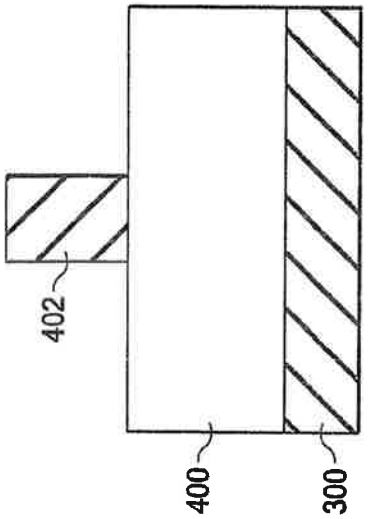


FIG. 4

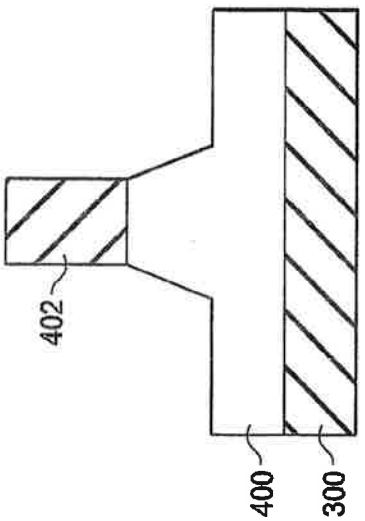


FIG. 5

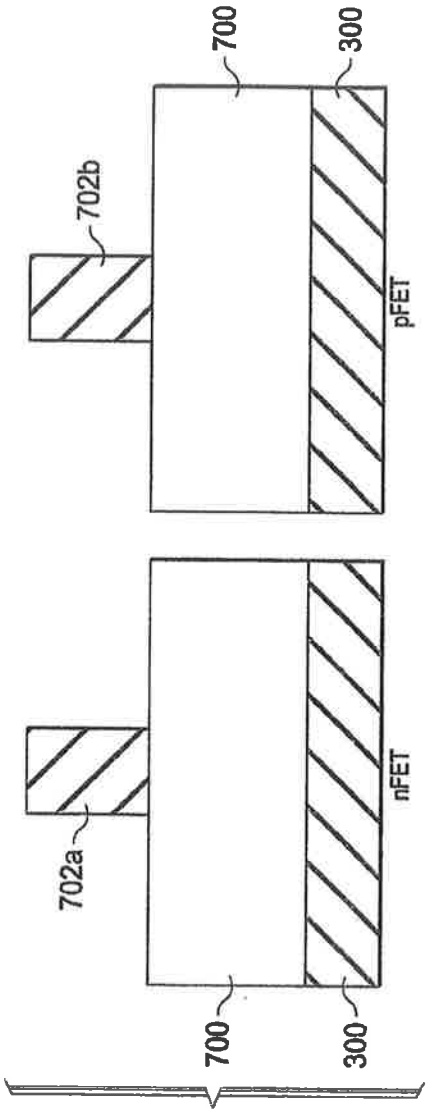

700
300
702b
pFET
702a
nFET
700
300

FIG. 7

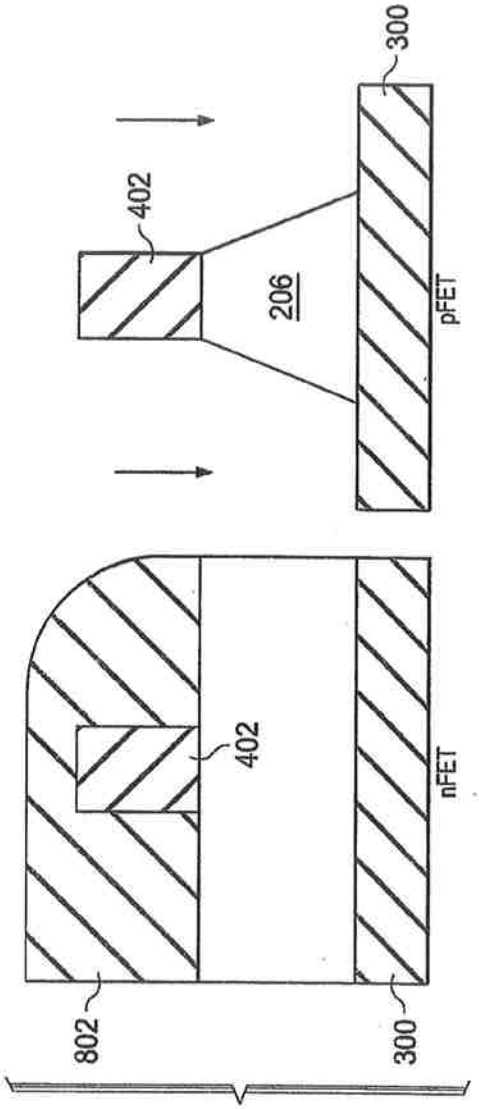

300
402
206
pFET
402
nFET
802
300

FIG. 8

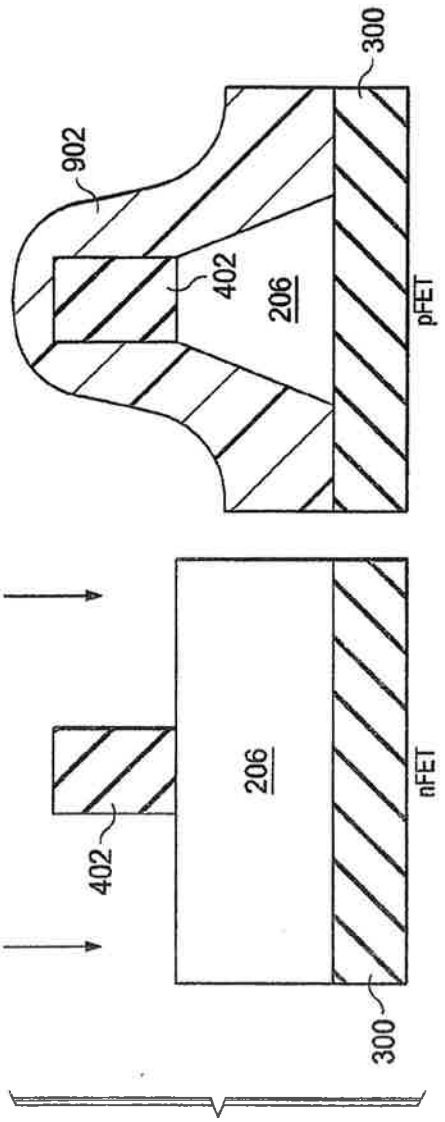

902
300
402
206
pFET
206
nFET
402
300

FIG. 9

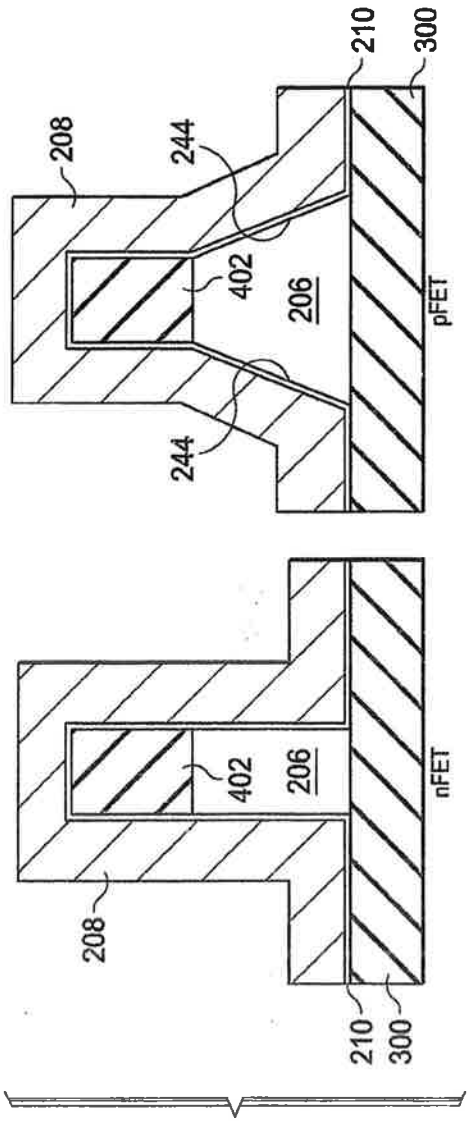

210
300
208
244
402
206
pFET
244
208
402
206
nFET
210
300

FIG. 10