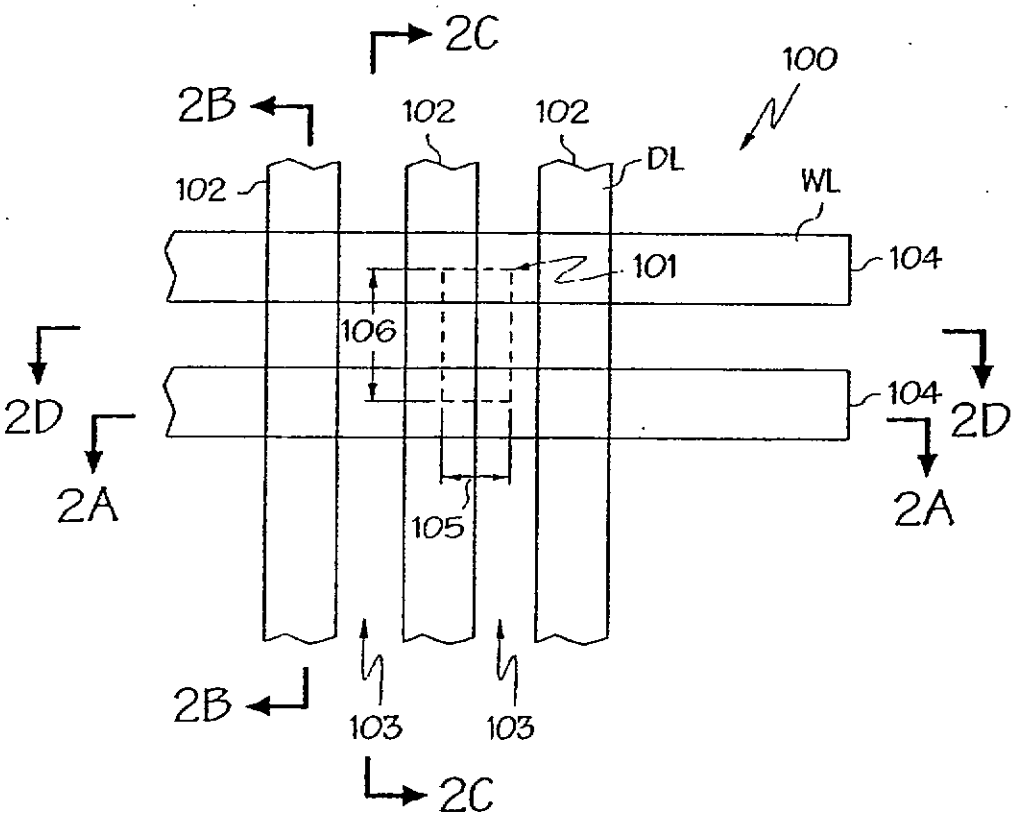

2C
2B
100
102
102
102
DL
WL
101
104
106
2D
2A
104
2D
2A
105
2B
103
103
2C

FIG. 1

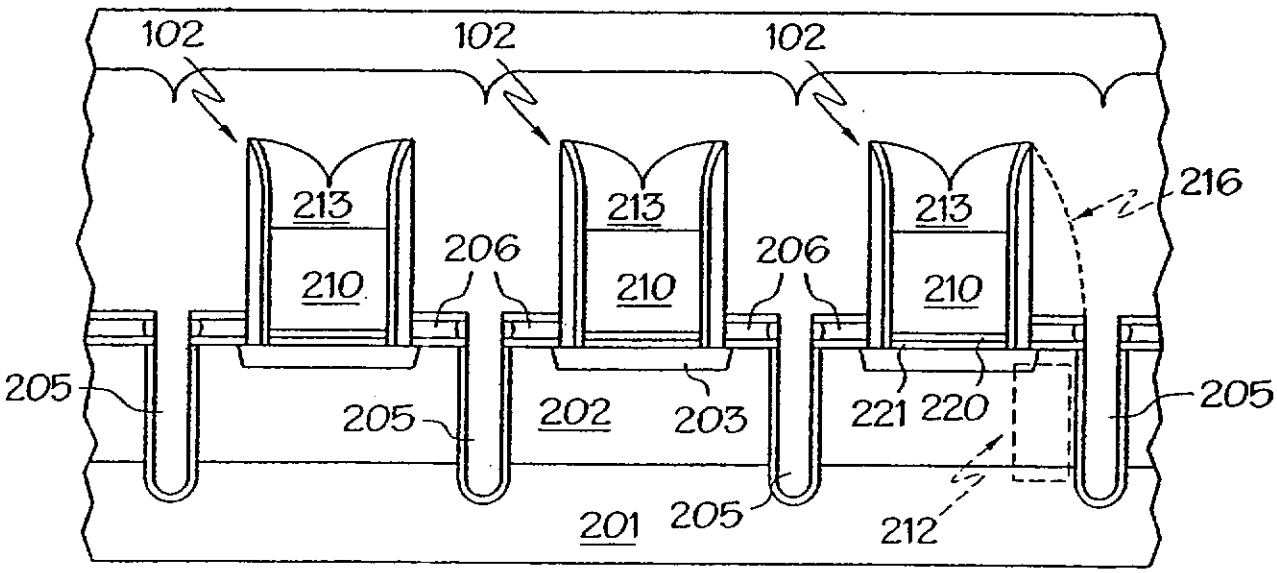

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102
102
213
213
213
216
210
206
210
206
210
205
205
202
203
221
220
205
205
201
205
212

FIG. 2A

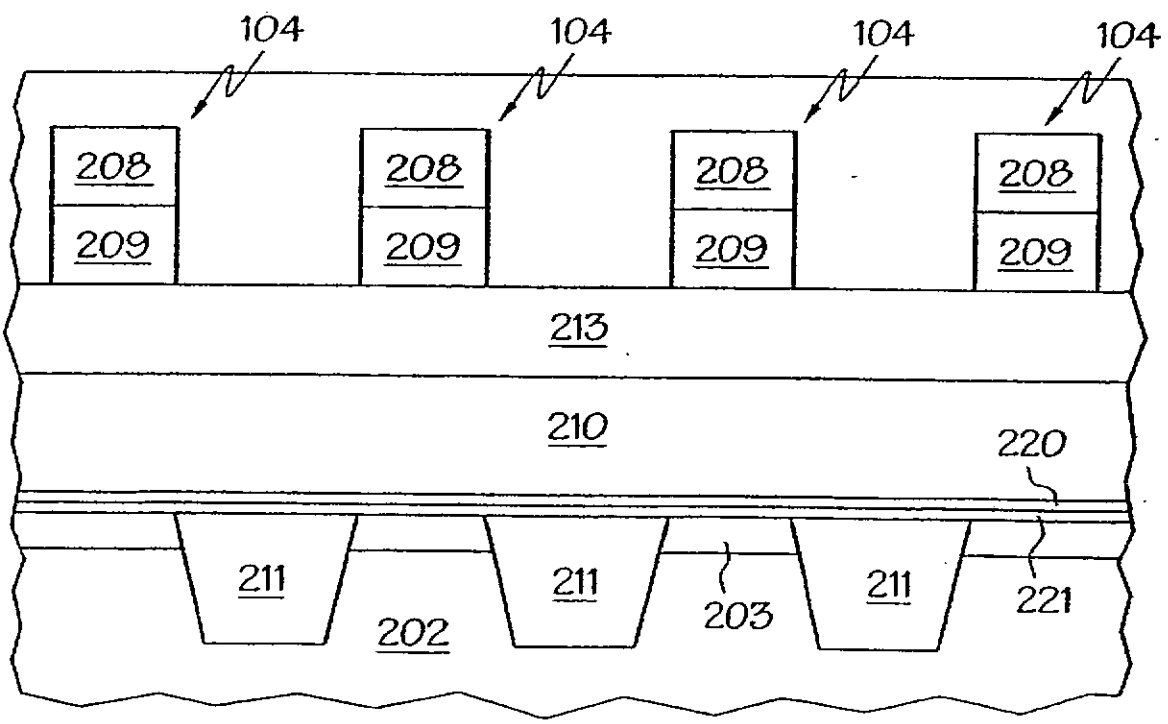

104
104
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209
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213
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220
211
211
211
202
203
221

FIG. 2B

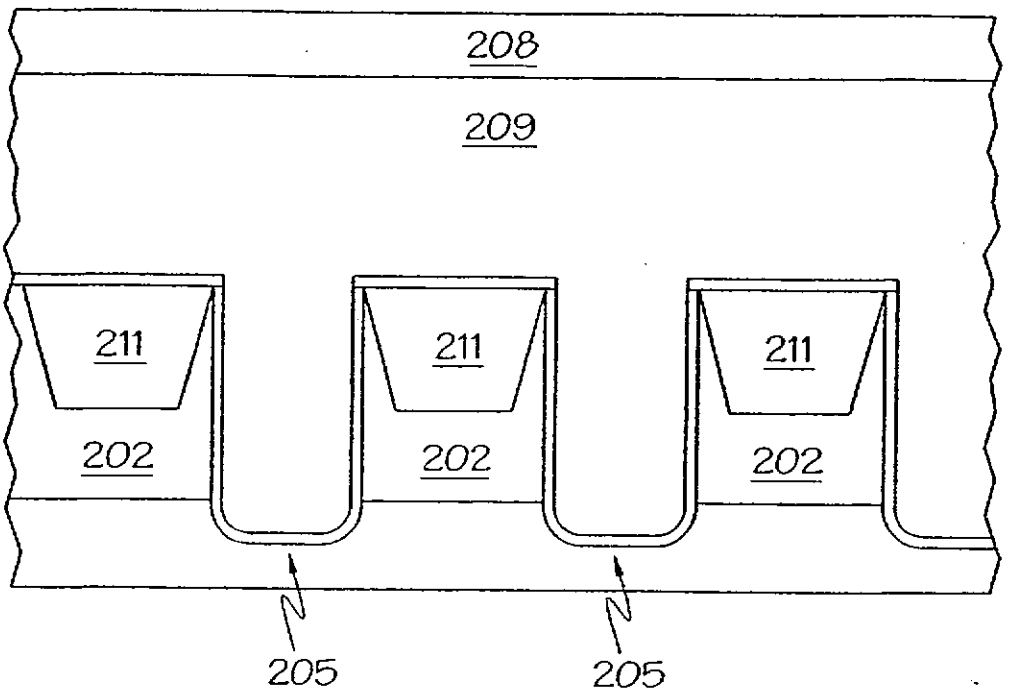

208
209
211
211
211
202
202
202
205
205

FIG. 2C

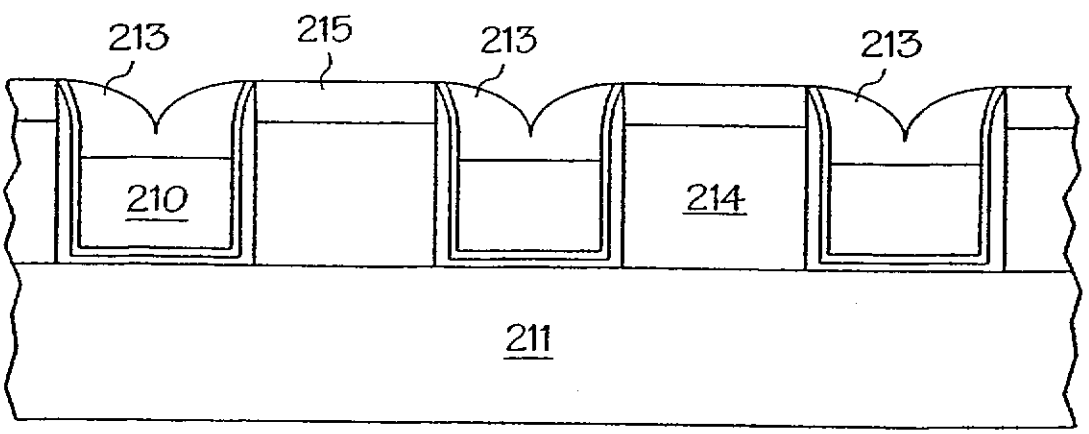

213
215
213
213
210
214
211

FIG. 2D

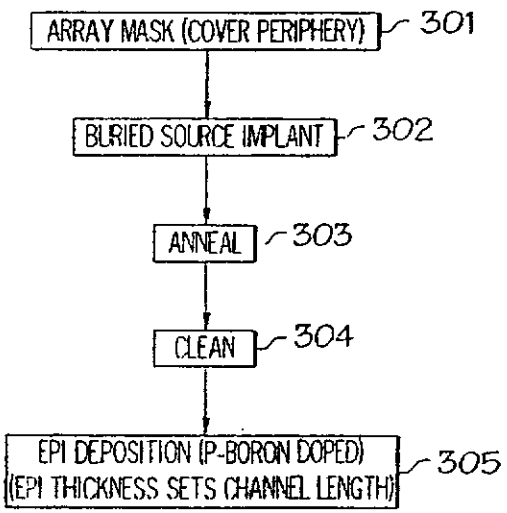

ARRAY MASK (COVER PERIPHERY)
301
BURIED SOURCE IMPLANT
302
ANNEAL
303
CLEAN
304
EPI DEPOSITION (P-BORON DOPED)
(EPI THICKNESS SETS CHANNEL LENGTH)
305

FIG. 3A

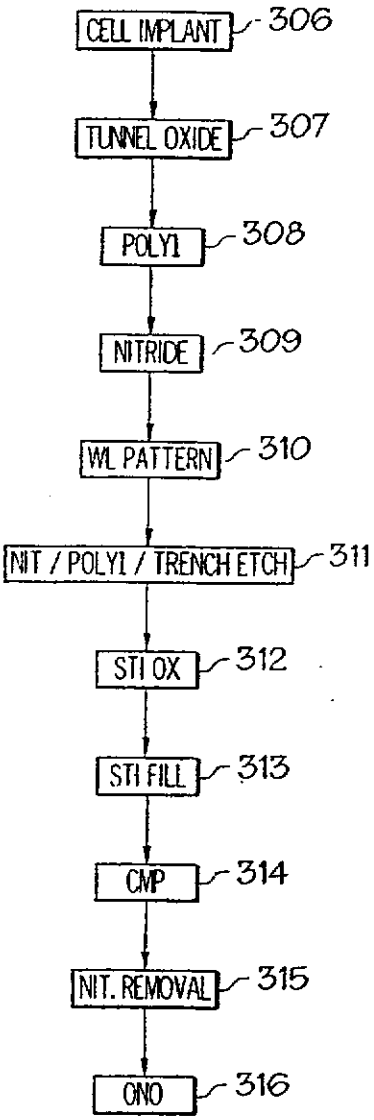

CELL IMPLANT
306
TUNNEL OXIDE
307
POLY1
308
NITRIDE
309
WL PATTERN
310
NIT / POLY1 / TRENCH ETCH
311
STI OX
312
STI FILL
313
CMP
314
NIT. REMOVAL
315
ONO
316

FIG. 3B

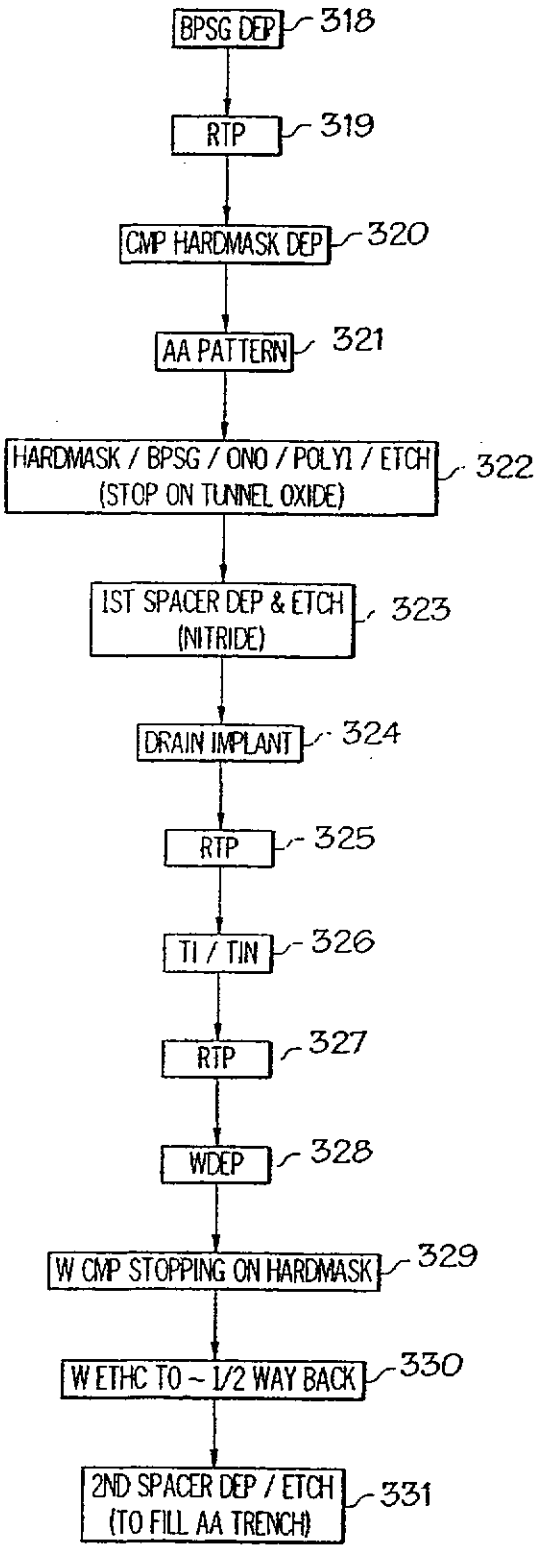

BPSG DEP
318
RTP
319
CMP HARDMASK DEP
320
AA PATTERN
321
HARDMASK / BPSG / ONO / POLY1 / ETCH
(STOP ON TUNNEL OXIDE)
322
1ST SPACER DEP & ETCH
(NITRIDE)
323
DRAIN IMPLANT
324
RTP
325
TI / TIN
326
RTP
327
WDEP
328
W CMP STOPPING ON HARDMASK
329
W ETHC TO ~ 1/2 WAY BACK
330
2ND SPACER DEP / ETCH
(TO FILL AA TRENCH)
331

FIG. 3C

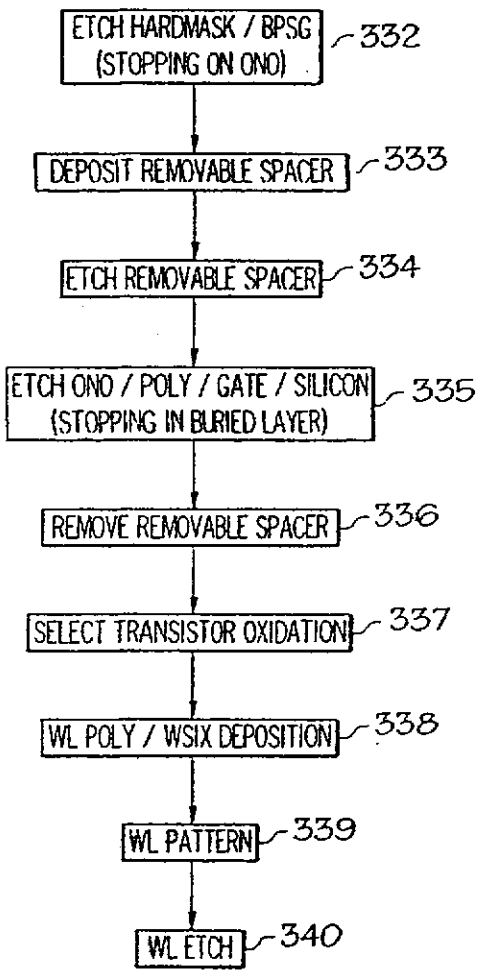

ETCH HARDMASK / BPSG (STOPPING ON ONO)
332
DEPOSIT REMOVABLE SPACER
333
ETCH REMOVABLE SPACER
334
ETCH ONO / POLY / GATE / SILICON (STOPPING IN BURIED LAYER)
335
REMOVE REMOVABLE SPACER
336
SELECT TRANSISTOR OXIDATION
337
WL POLY / WSIX DEPOSITION
338
WL PATTERN
339
WL ETCH
340

FIG. 3D

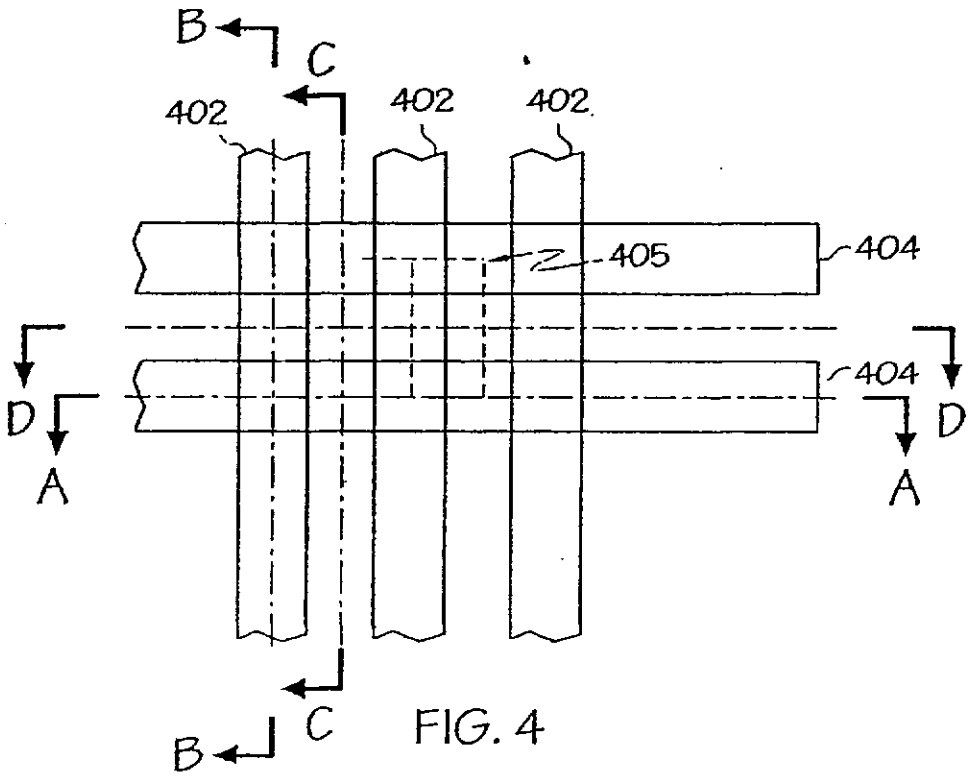


FIG. 4

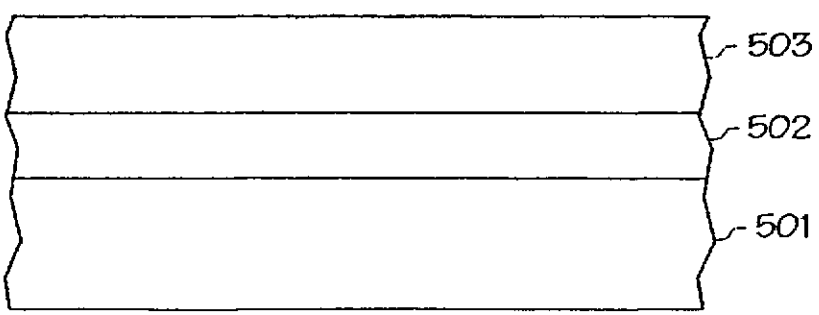


FIG. 5

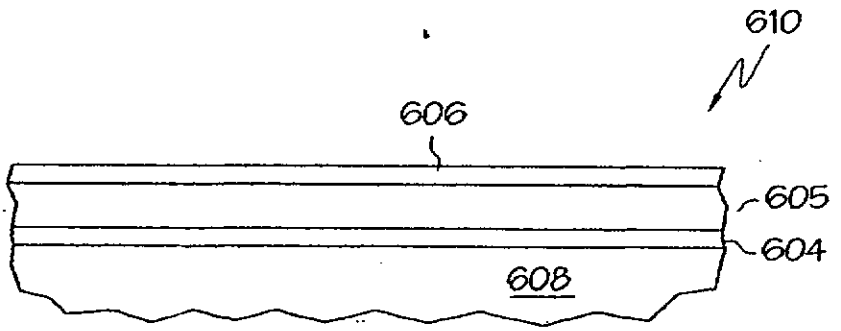


FIG. 6A

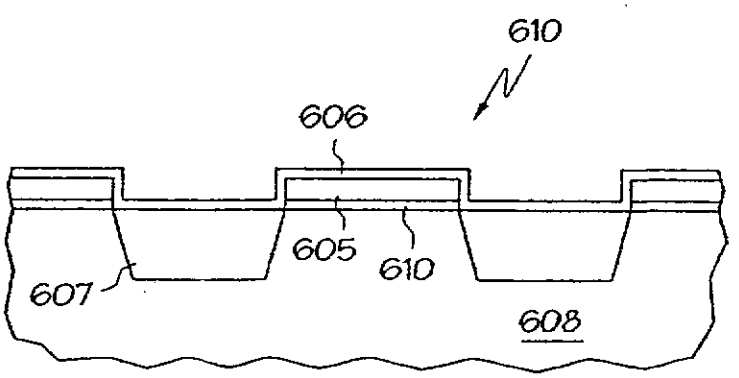


FIG. 6B

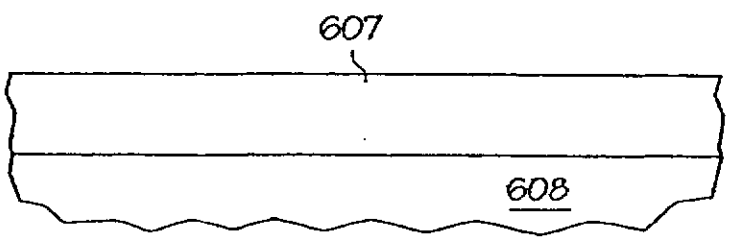


FIG. 6C

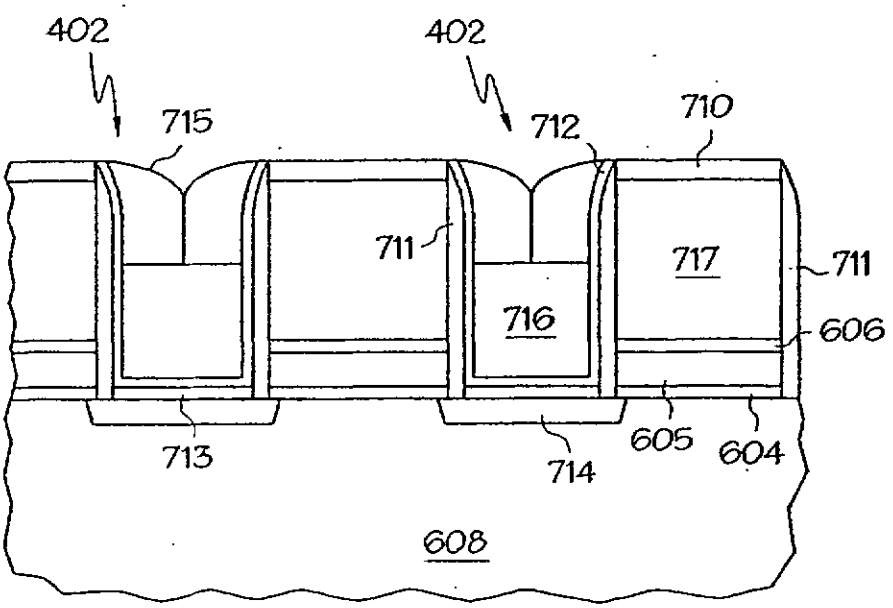

402
402
715
712
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608

FIG. 7A

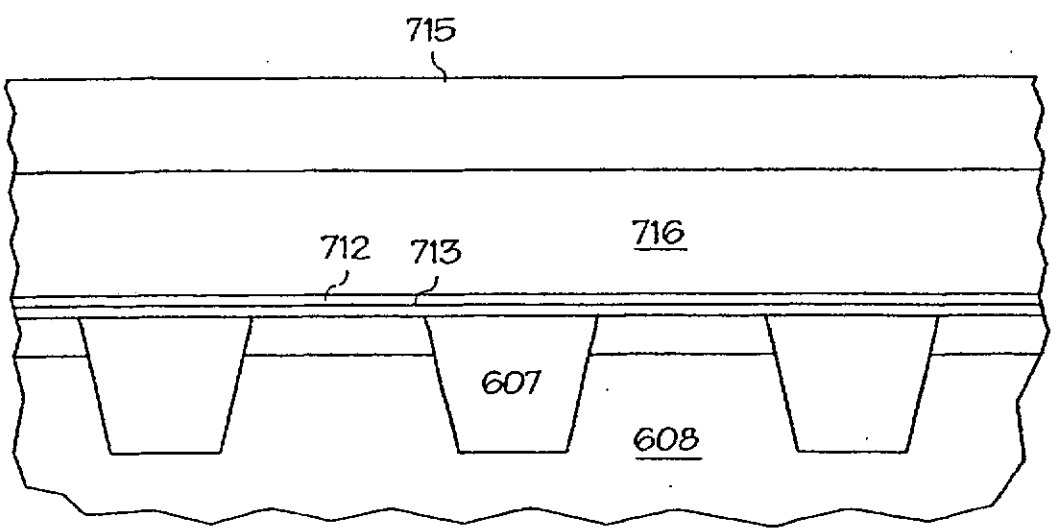

715
716
712
713
607
608

FIG. 7B

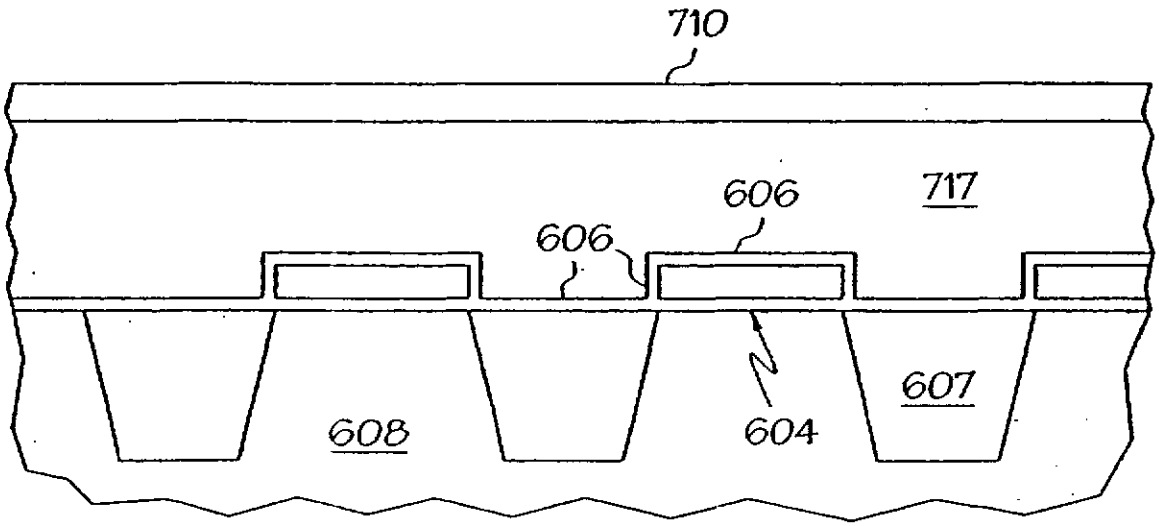


FIG. 7C

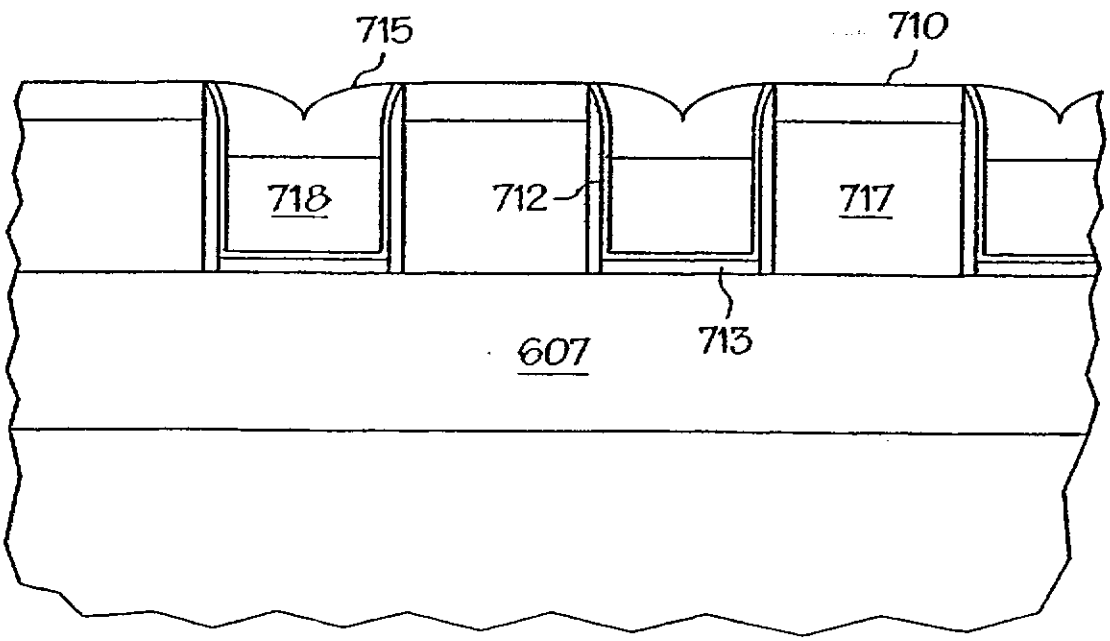


FIG. 7D

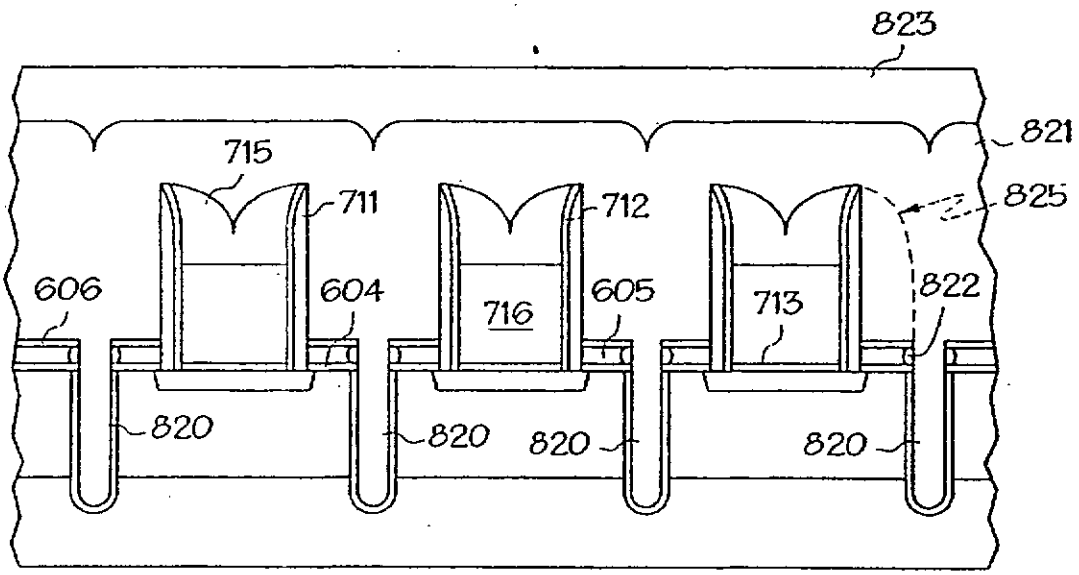

823
821
715
711
712
825
606
604
716
605
713
822
820
820
820
820

FIG. 8A

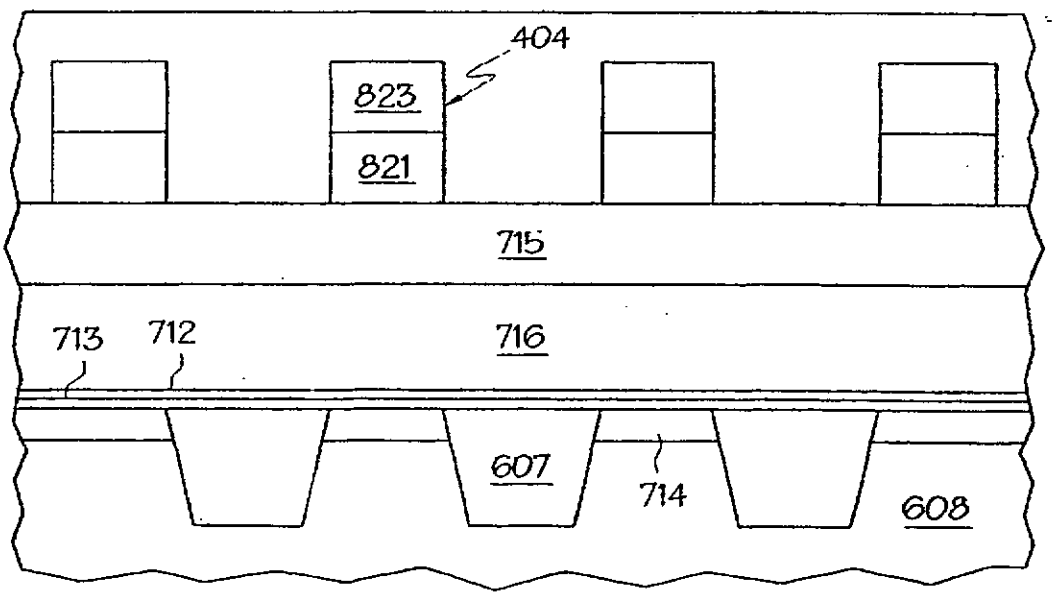

404
823
821
715
713
712
716
607
714
608

FIG. 8B

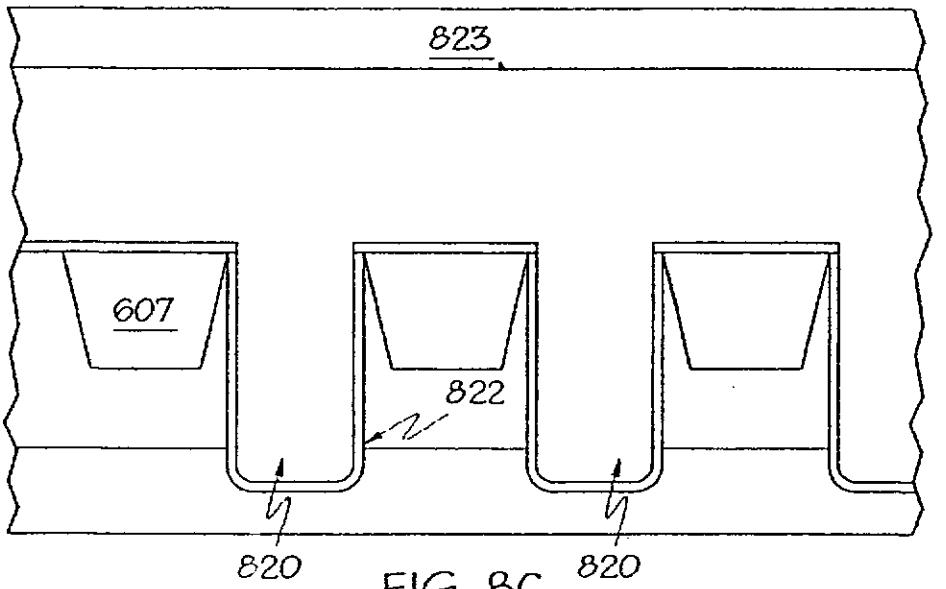


FIG. 8C

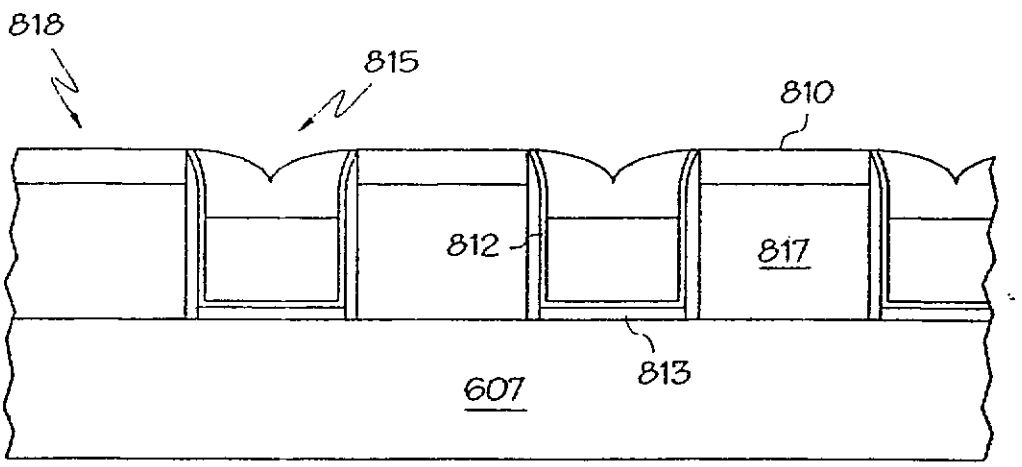


FIG. 8D

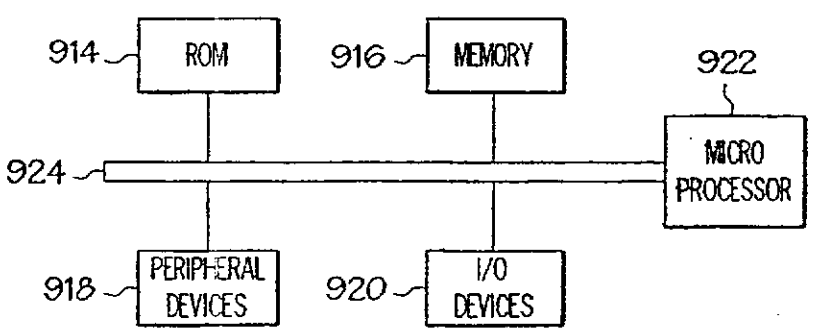


FIG. 9