FIG. 1 (Prior Art)

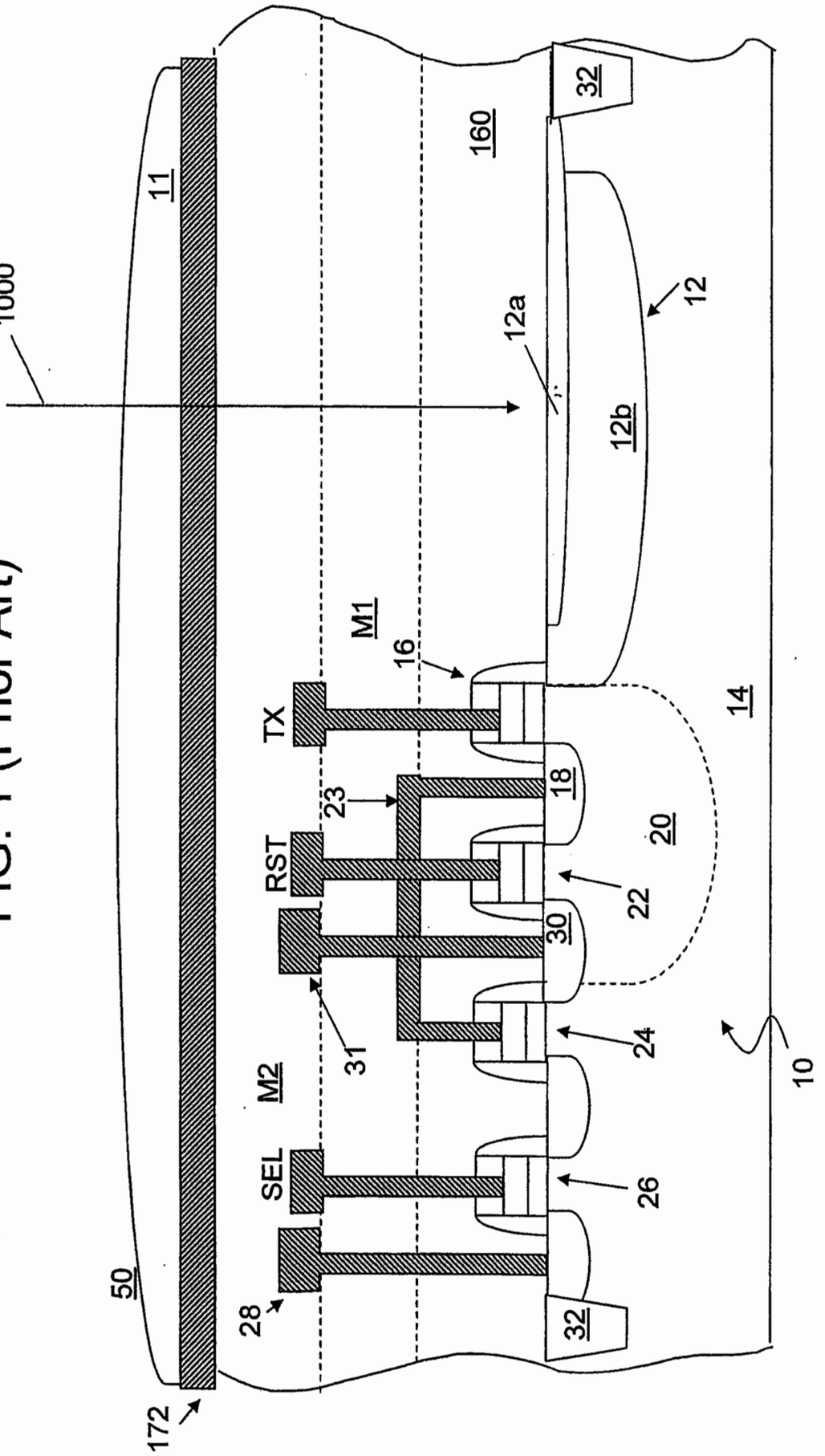


FIG. 2

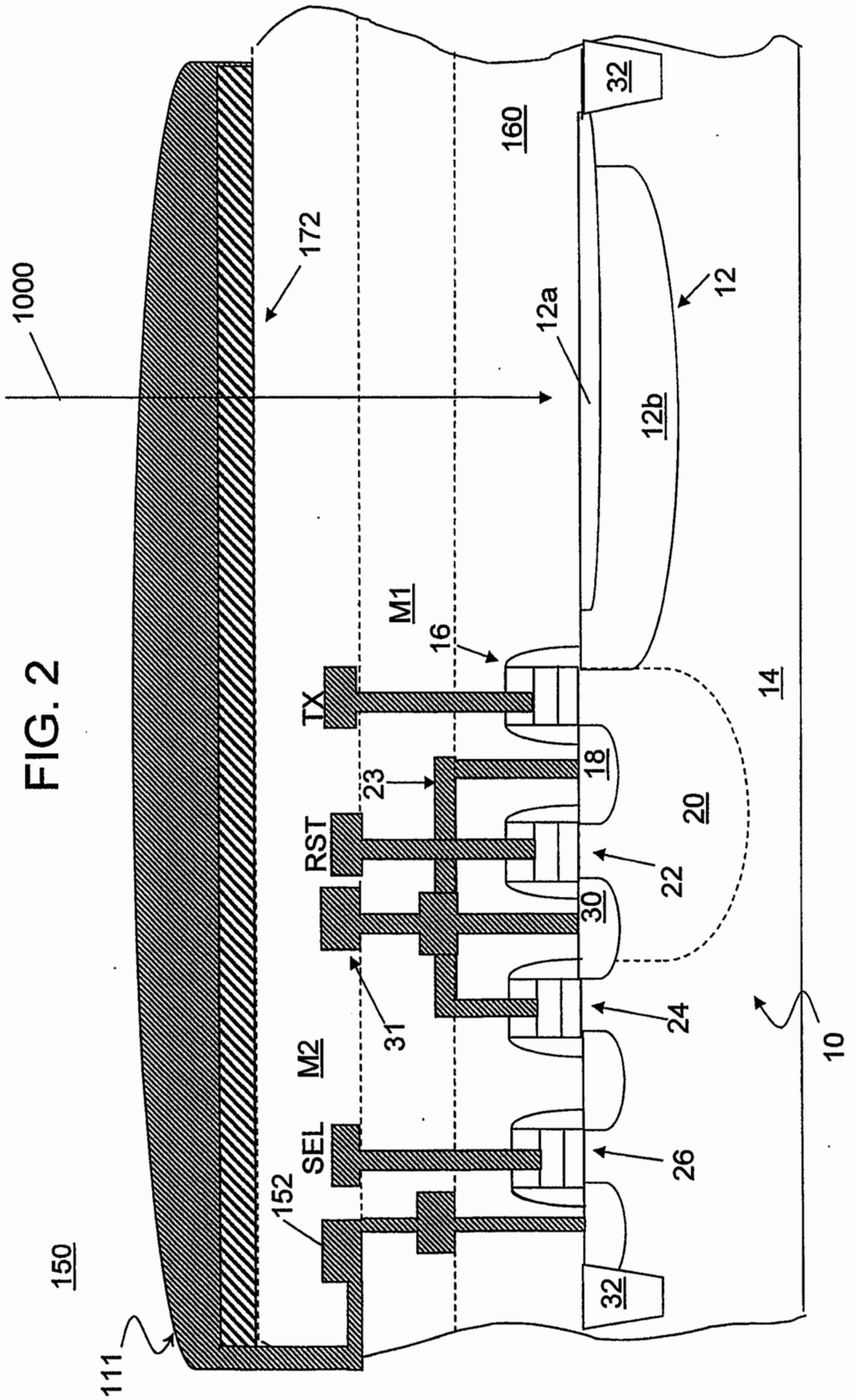

1000
172
160
32
12
12a
12b
M1
16
TX
23
RST
18
20
22
30
31
24
M2
SEL
152
26
32
14
10
150
111

FIG. 3

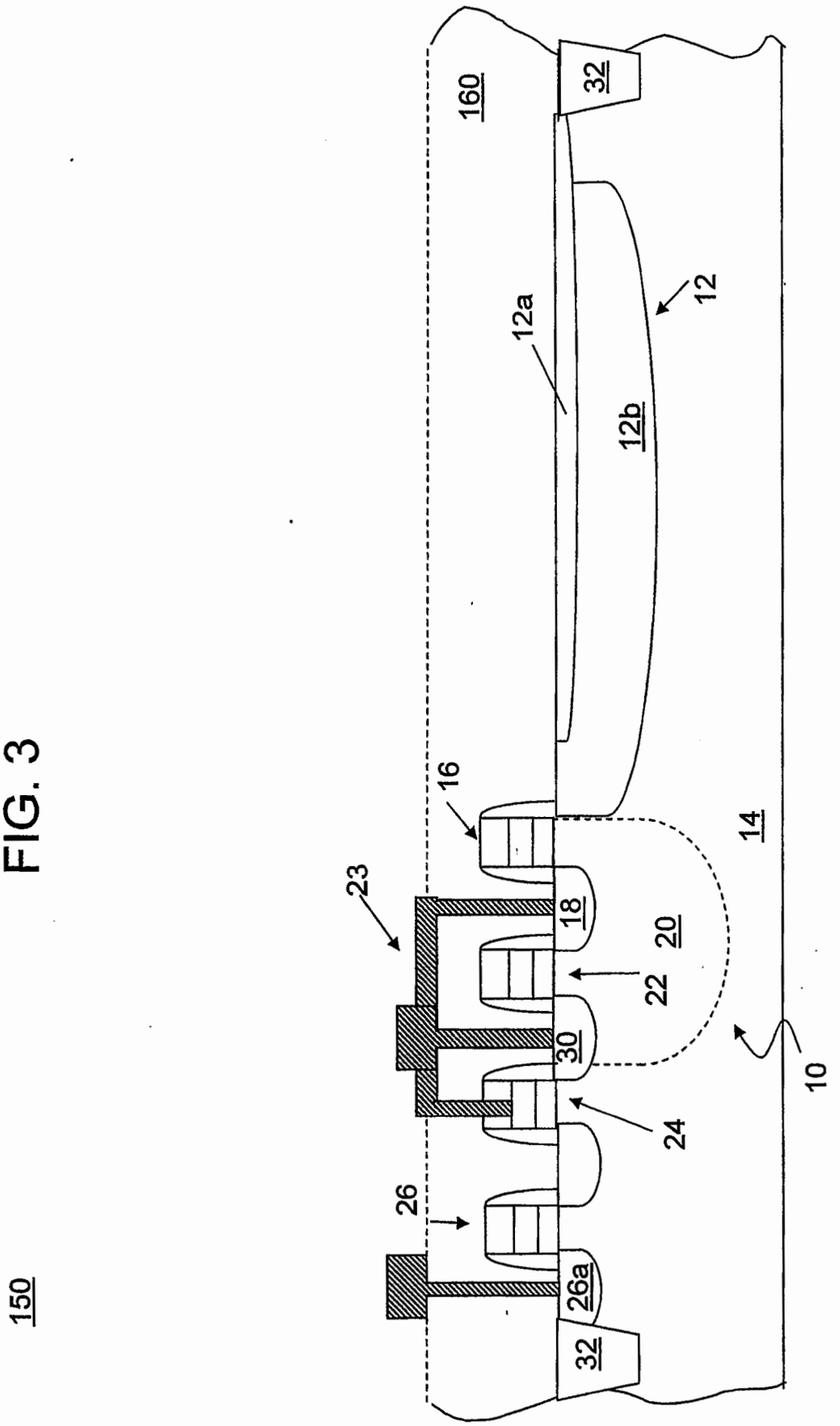


FIG. 4

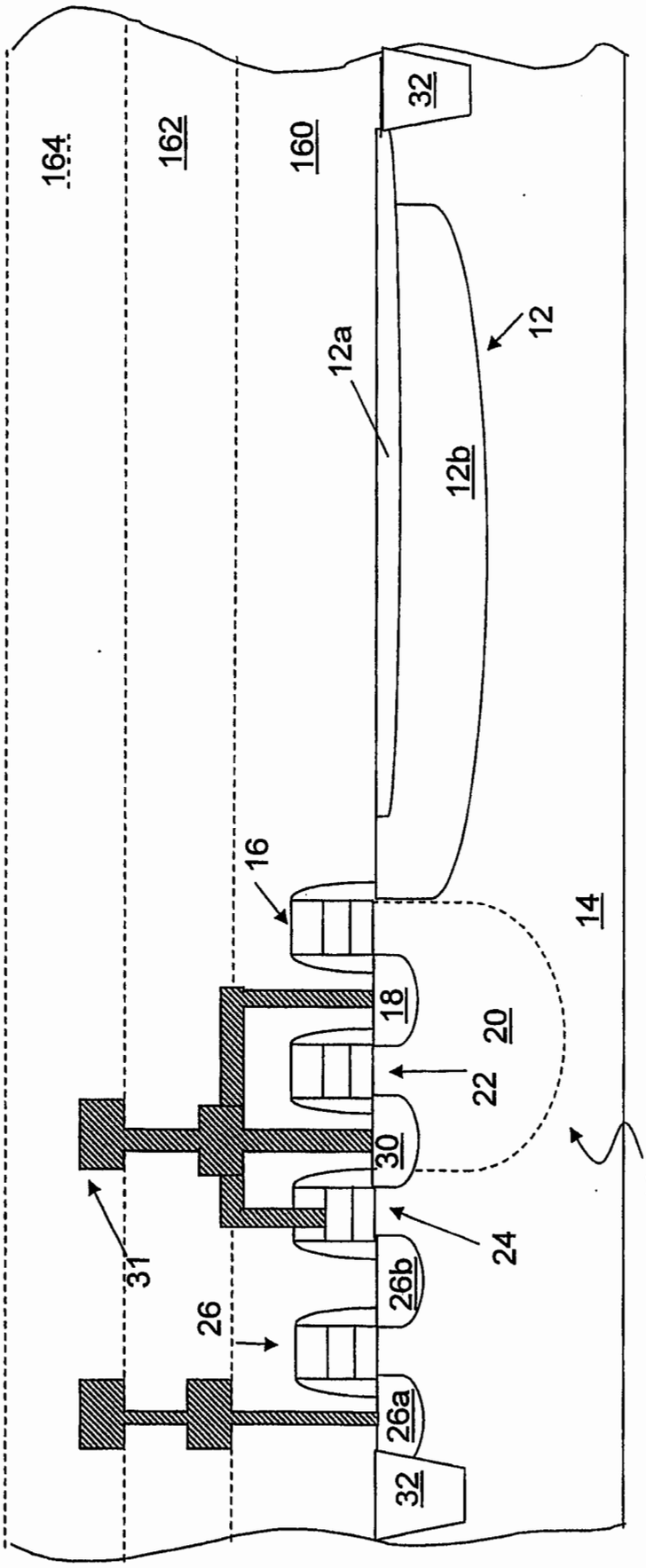

150
164
162
160
32
12
12a
12b
16
18
20
22
30
14
10
31
24
26b
26
26a
32

FIG. 5

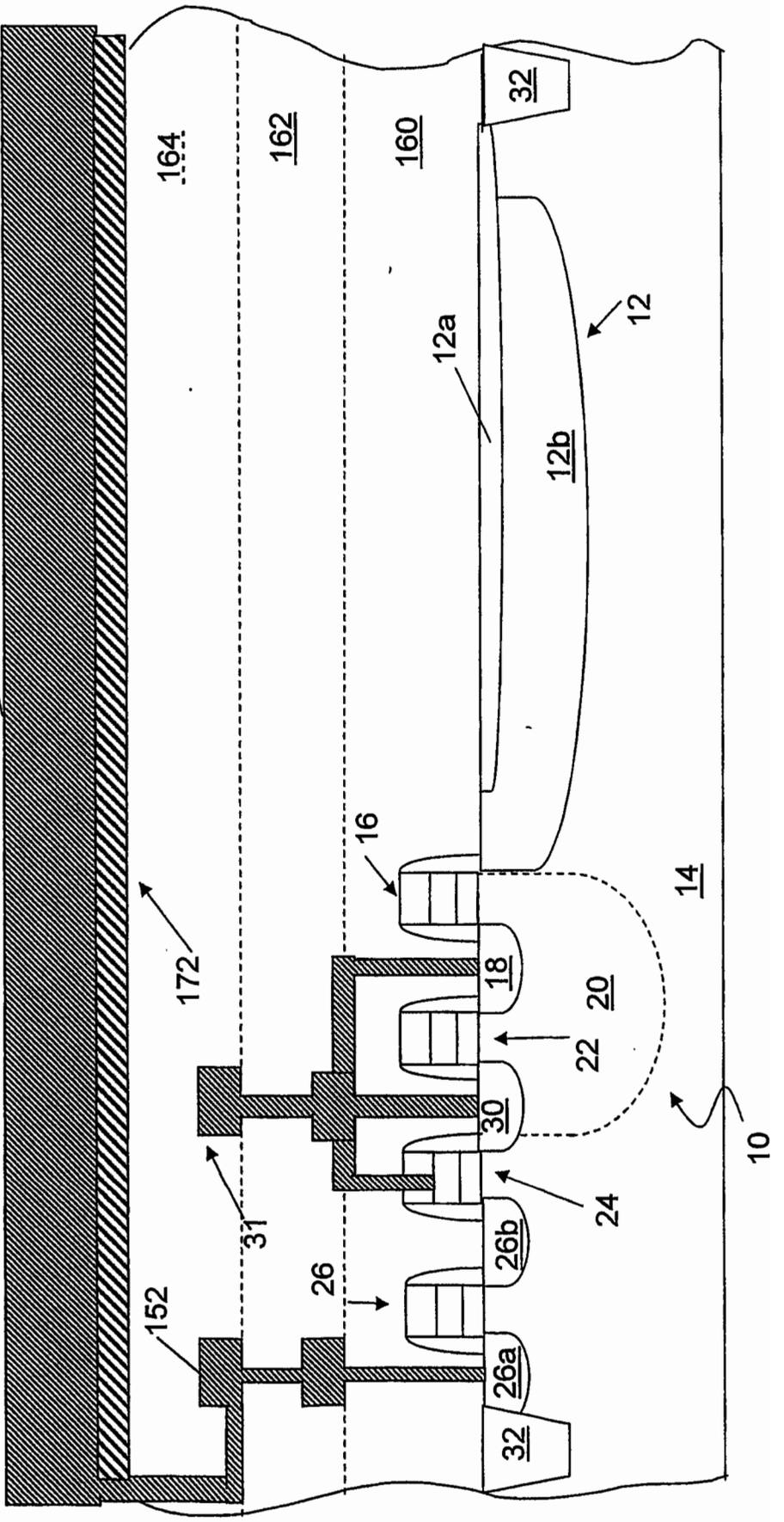

150
111a
164
162
160
32
12a
12
12b
16
172
18
20
22
14
30
10
31
24
26b
26
152
26a
32

FIG. 6

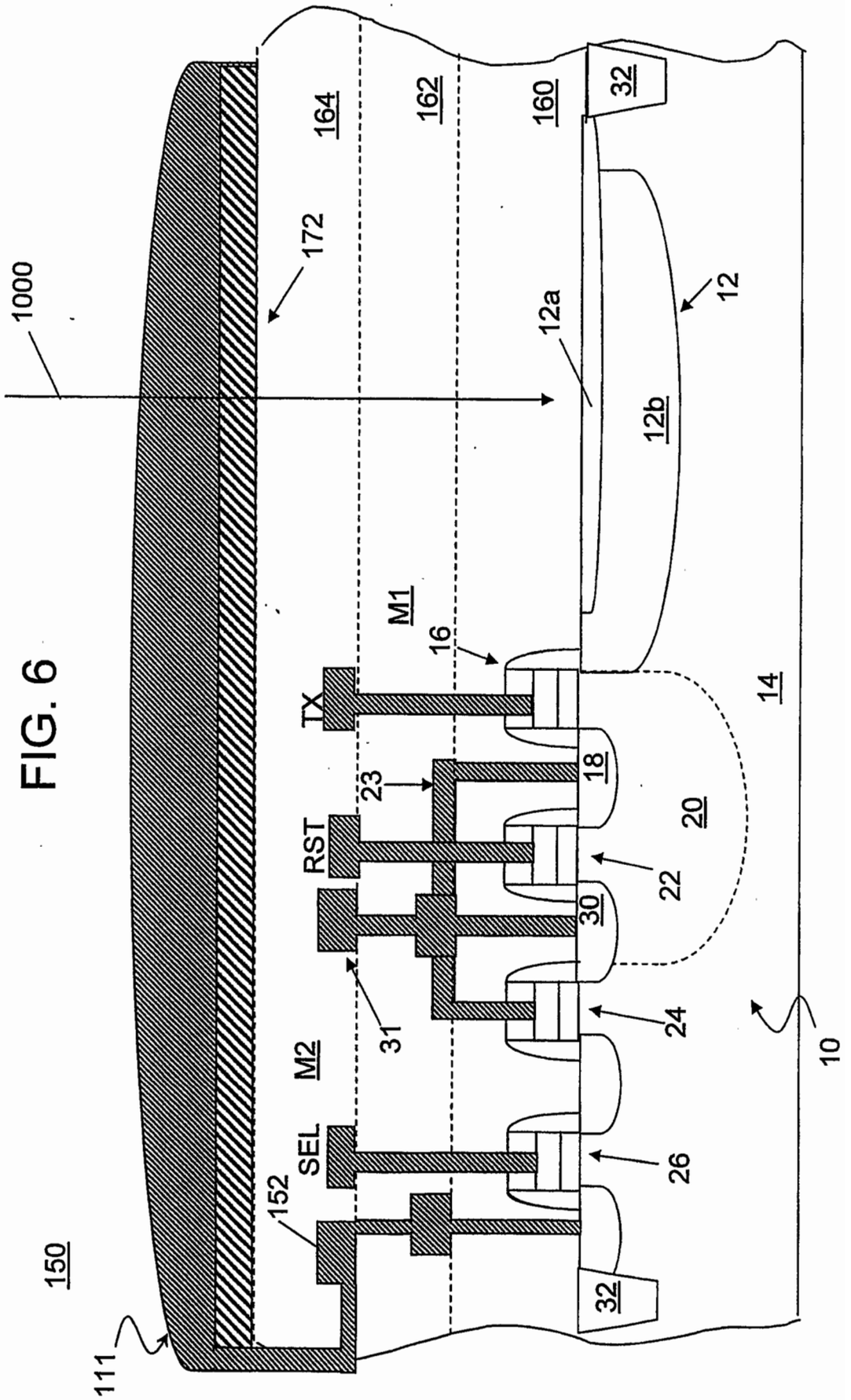
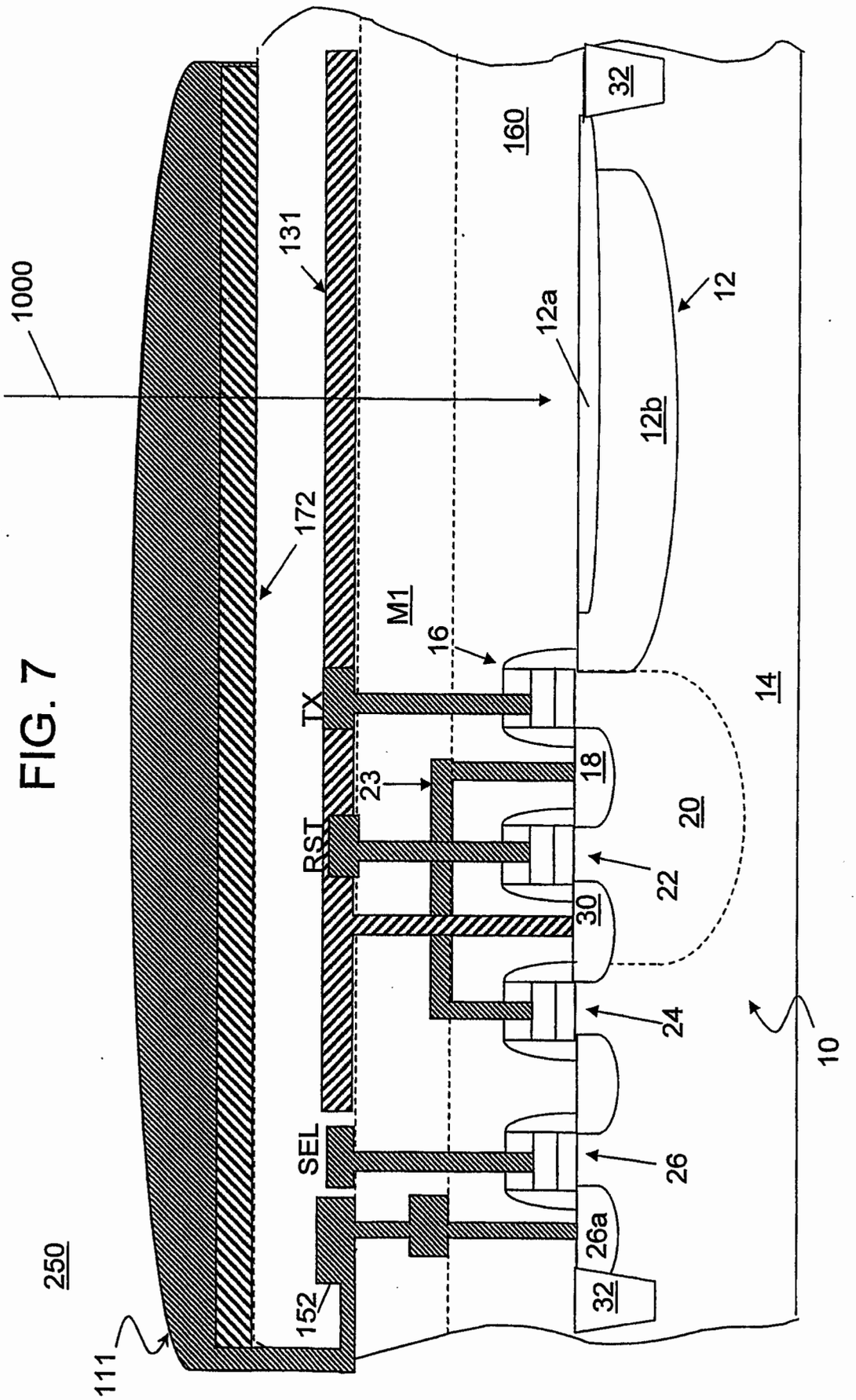
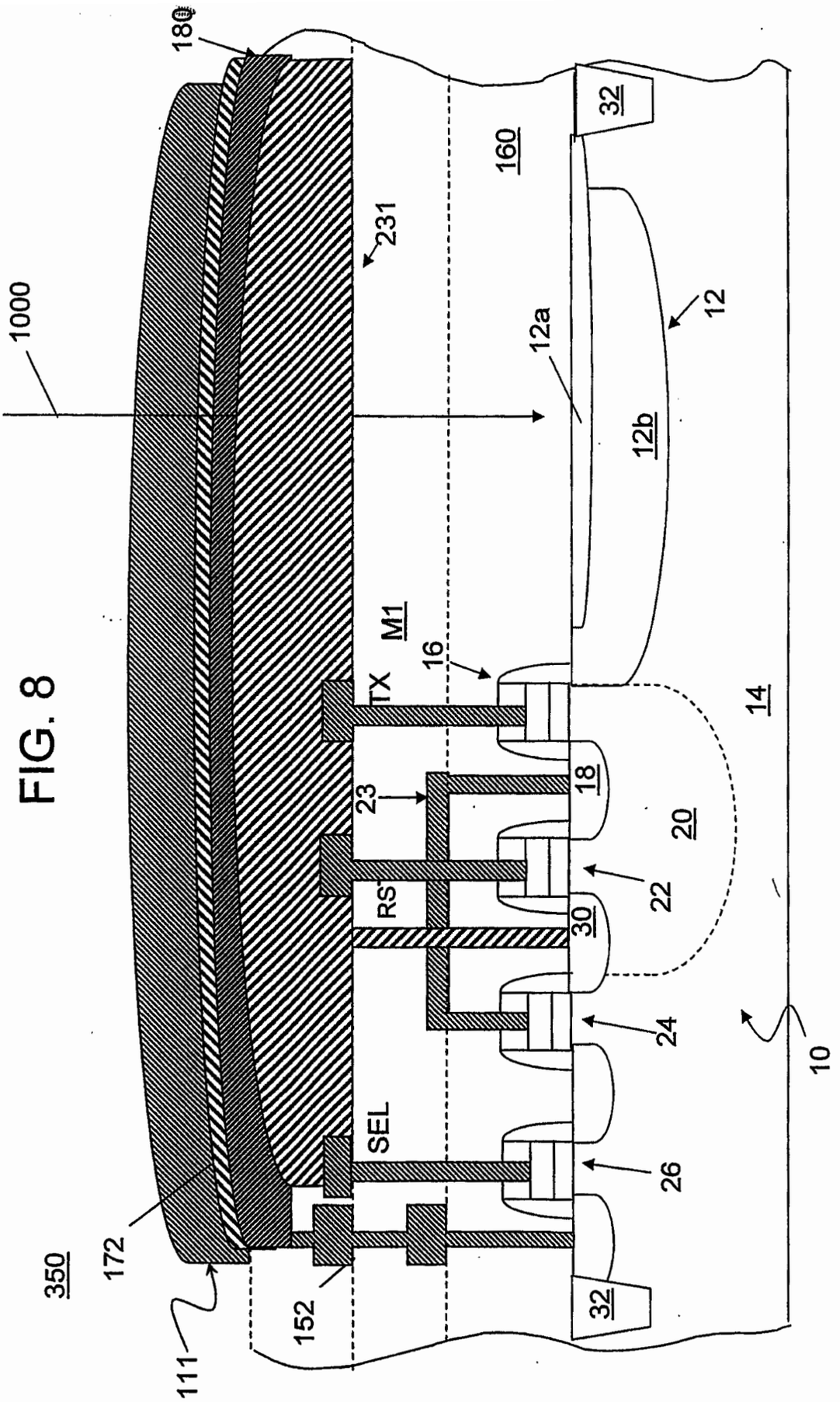

1000
172
164
162
160
32
12
12a
12b
M1
16
TX
18
23
RST
20
22
30
31
24
M2
SEL
152
26
32
14
10
111
150

FIG. 7


1000
131
160
32
12
12a
12b
172
M1
16
14
TX
18
23
20
RST
22
30
24
10
SEL
26
26a
32
152
111
250


FIG. 8
1000
180
231
160
32
12
12a
12b
M1
16
TX
23
RST
18
20
22
30
24
14
10
SEL
26
32
350
172
111
152

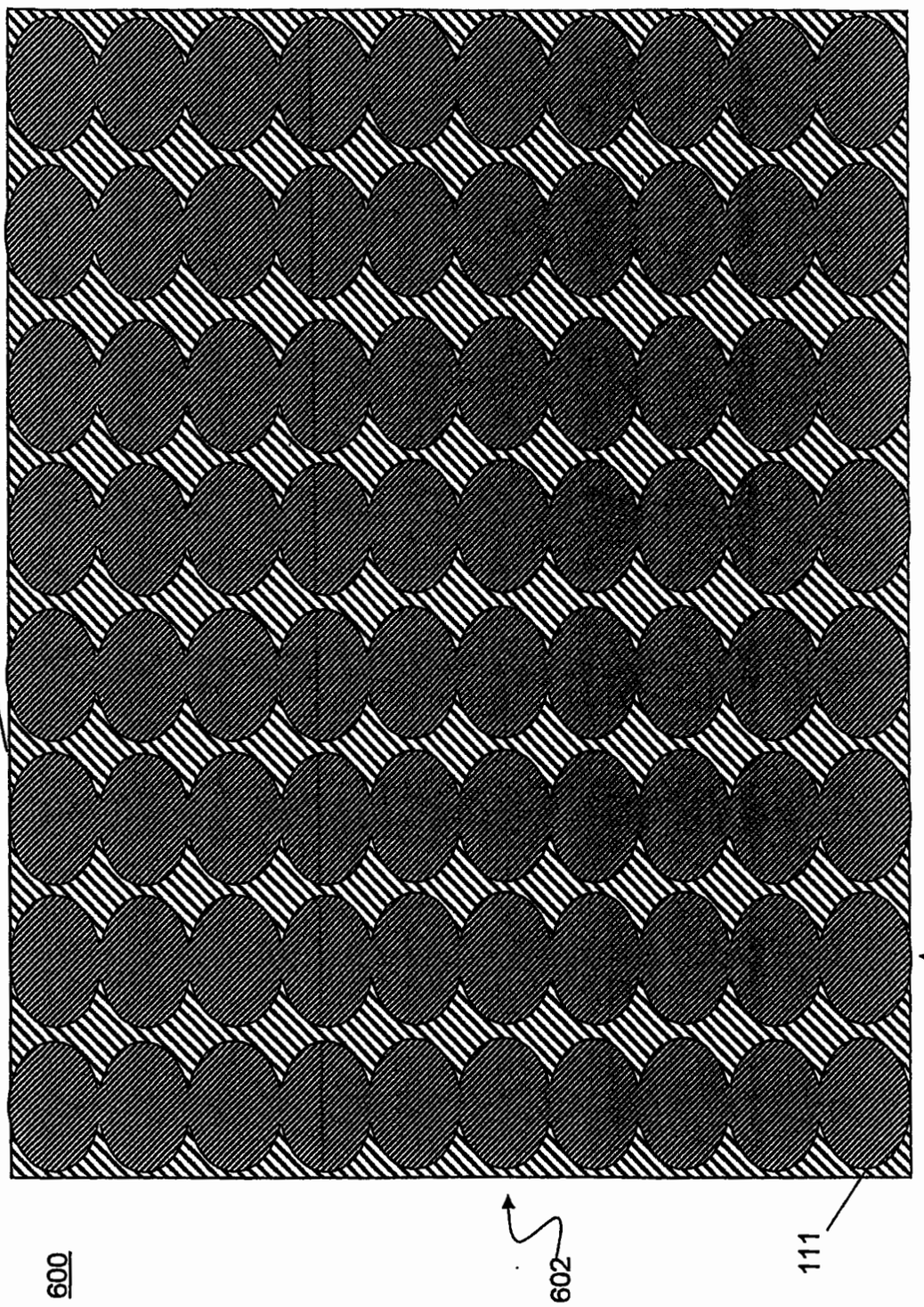


FIG. 9

FIG. 10

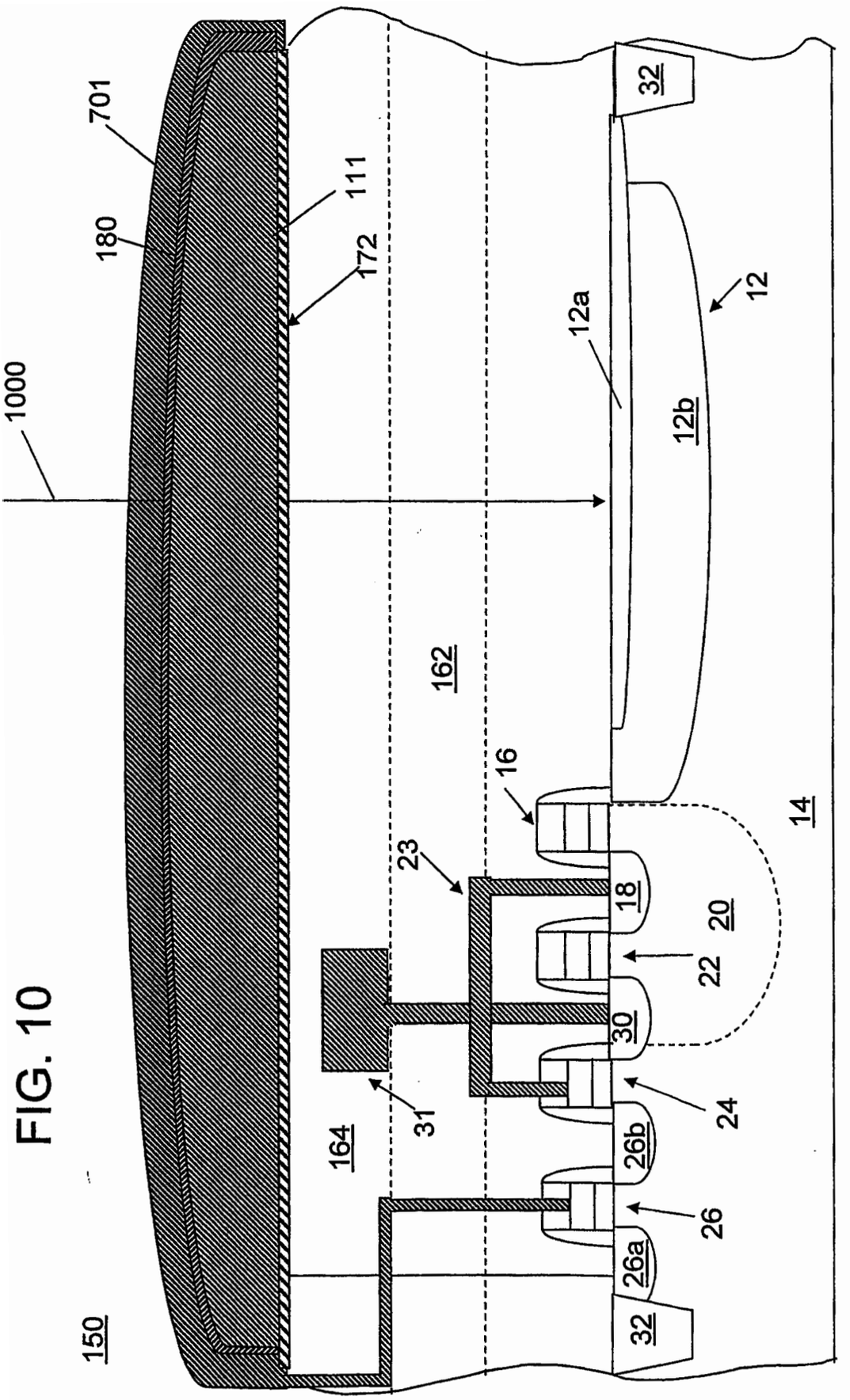

701
111
180
172
1000
12a
12
12b
32
162
16
14
23
18
20
22
30
164
31
24
26b
26
26a
32
150

FIG.11

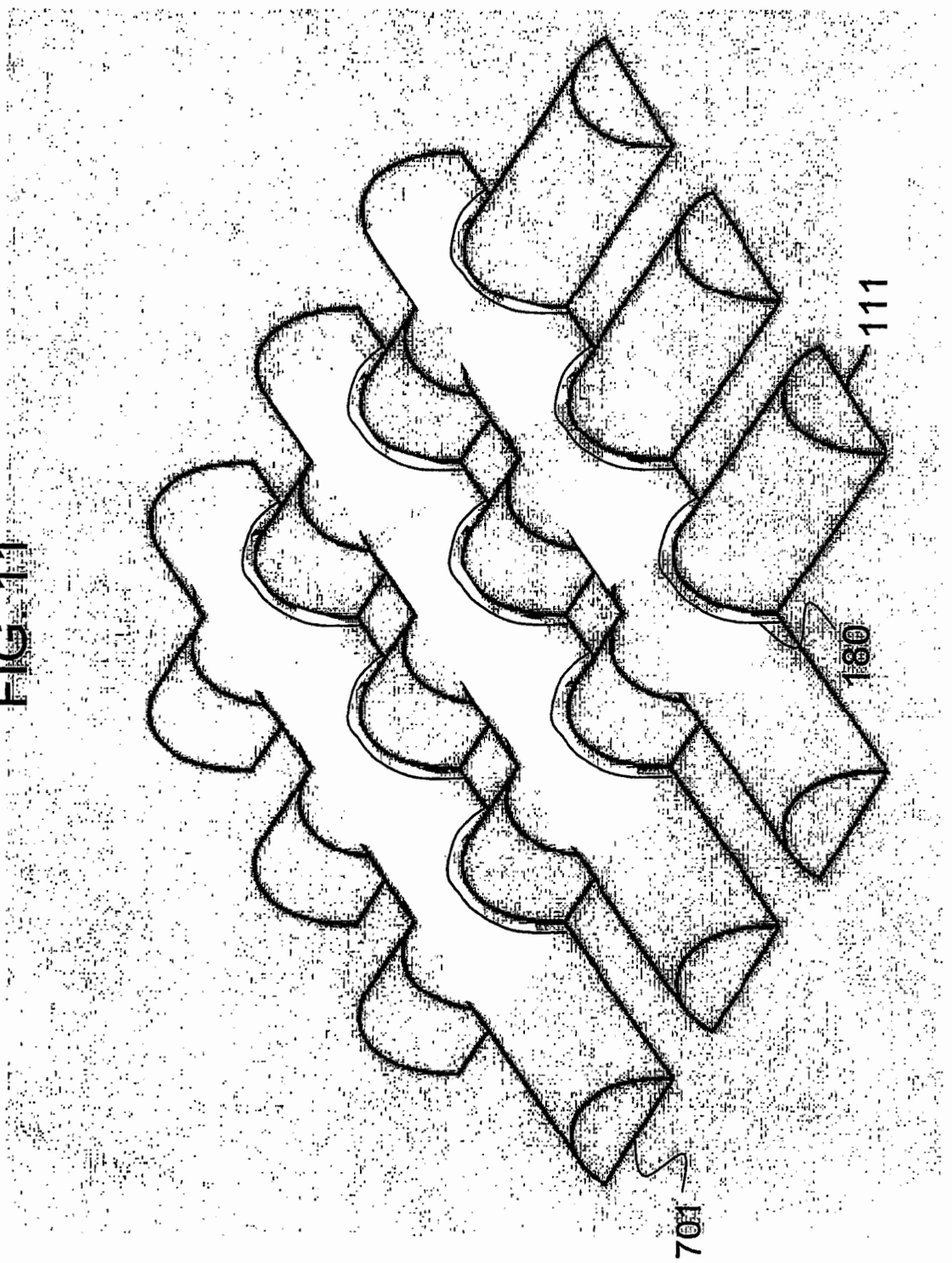


FIG. 12

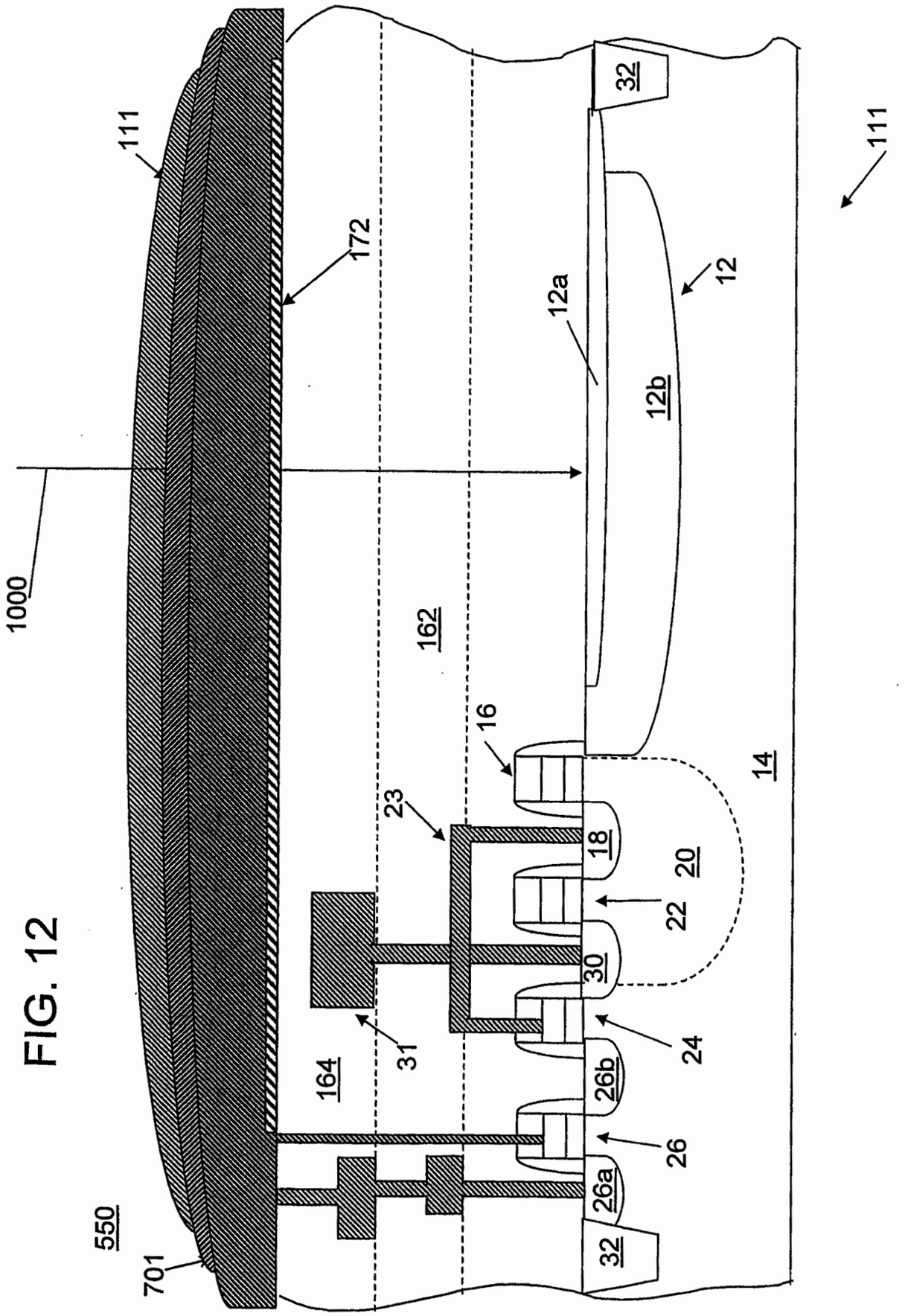

111
172
12a
12
12b
1000
162
16
23
18
20
22
30
24
164
31
26b
26
26a
32
550
701
14

FIG. 13

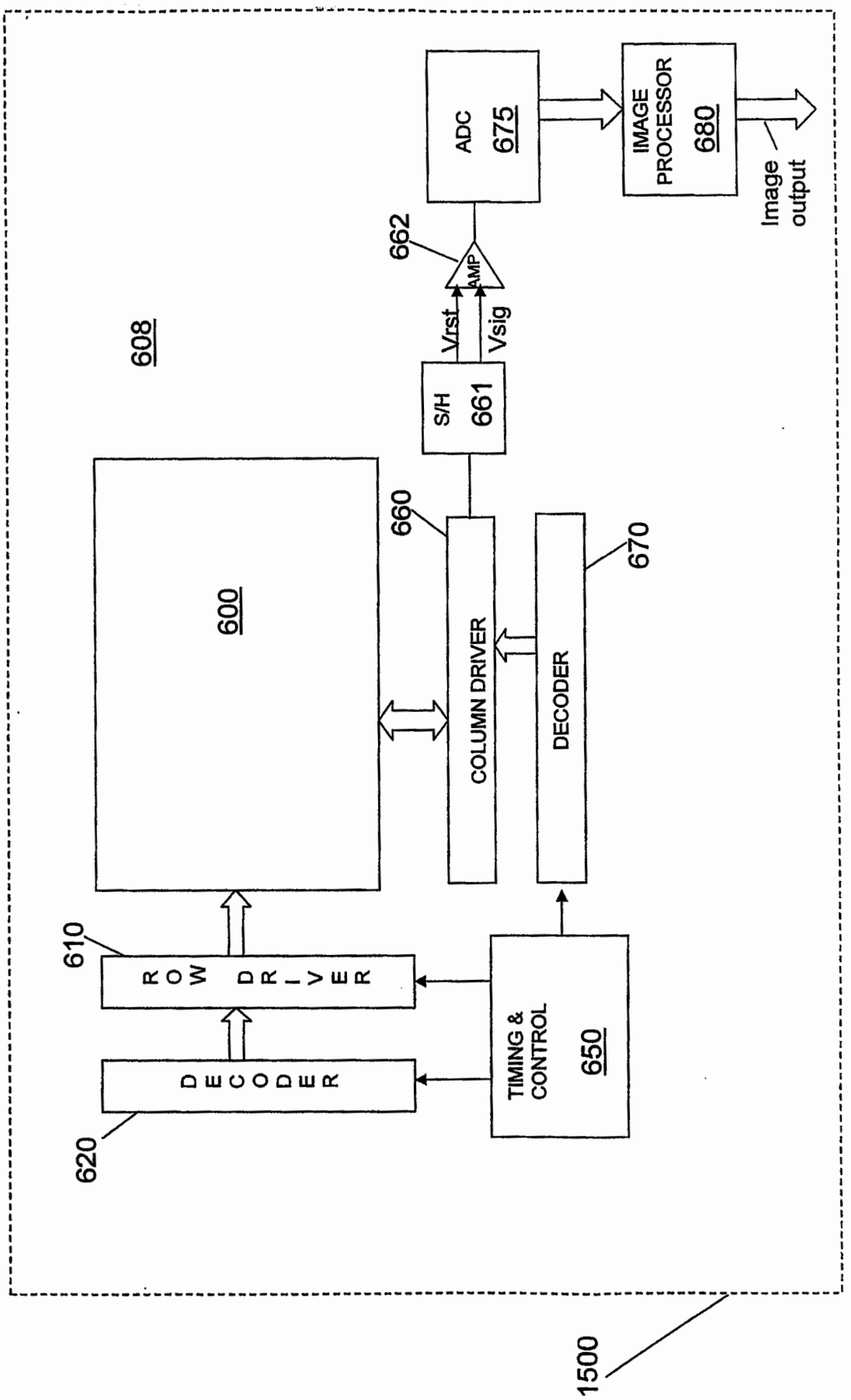
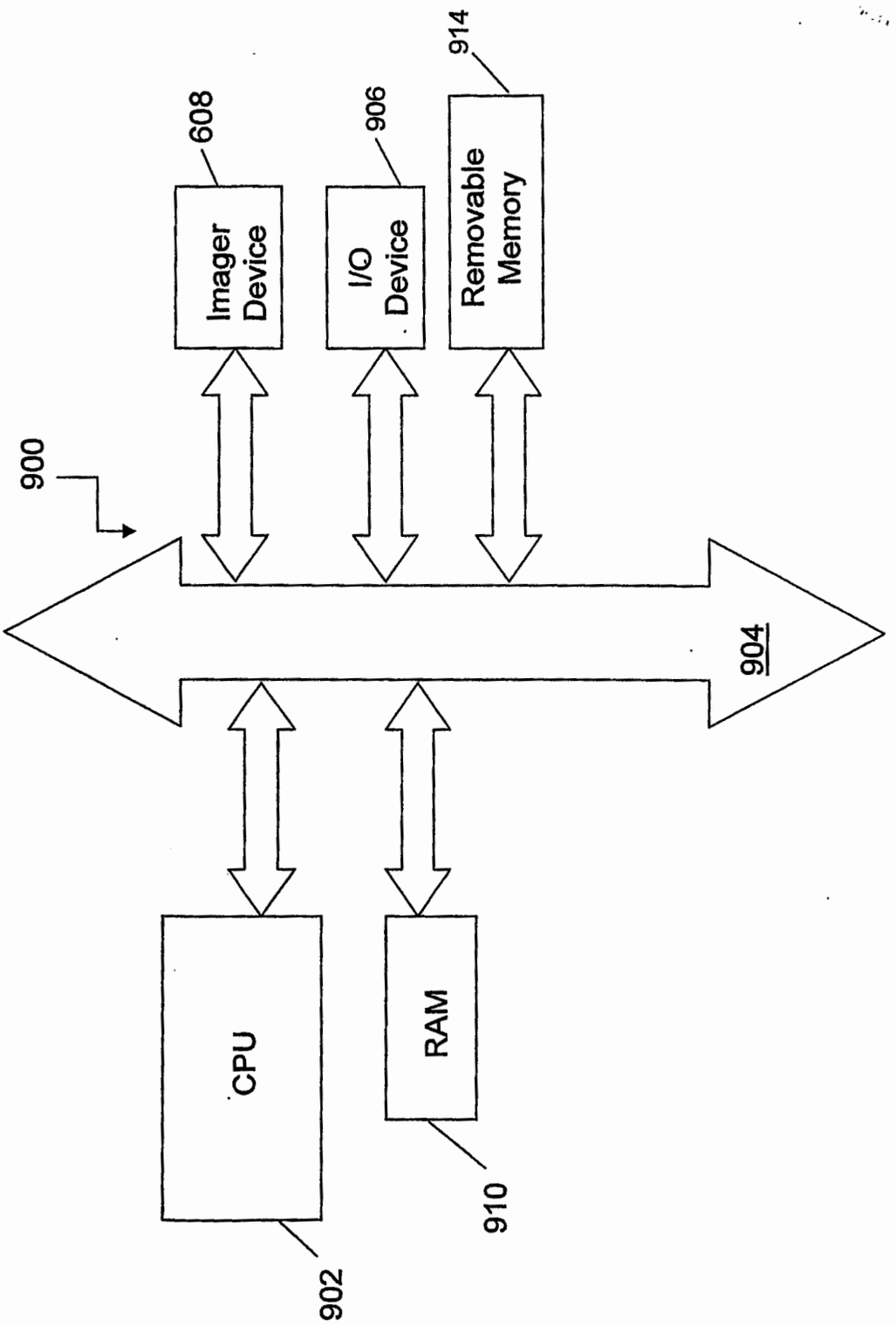

1500
608
600
610
620
ROW DRIVER
DECODER
TIMING & CONTROL
650
660
COLUMN DRIVER
670
DECODER
662
AMP
Vrst
Vsig
S/H
661
ADC
675
IMAGE PROCESSOR
680
Image output

FIG. 14


900
608
Imager Device
906
I/O Device
914
Removable Memory
904
CPU
902
RAM
910