FIG. 1

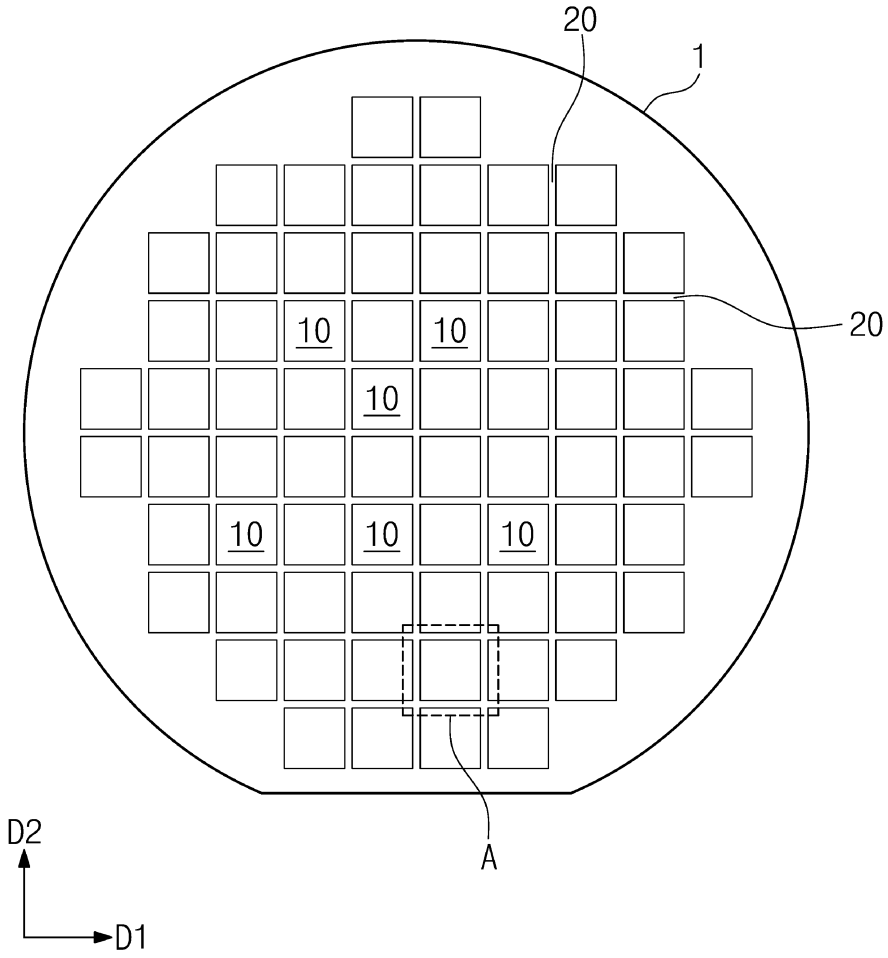

FIG. 2

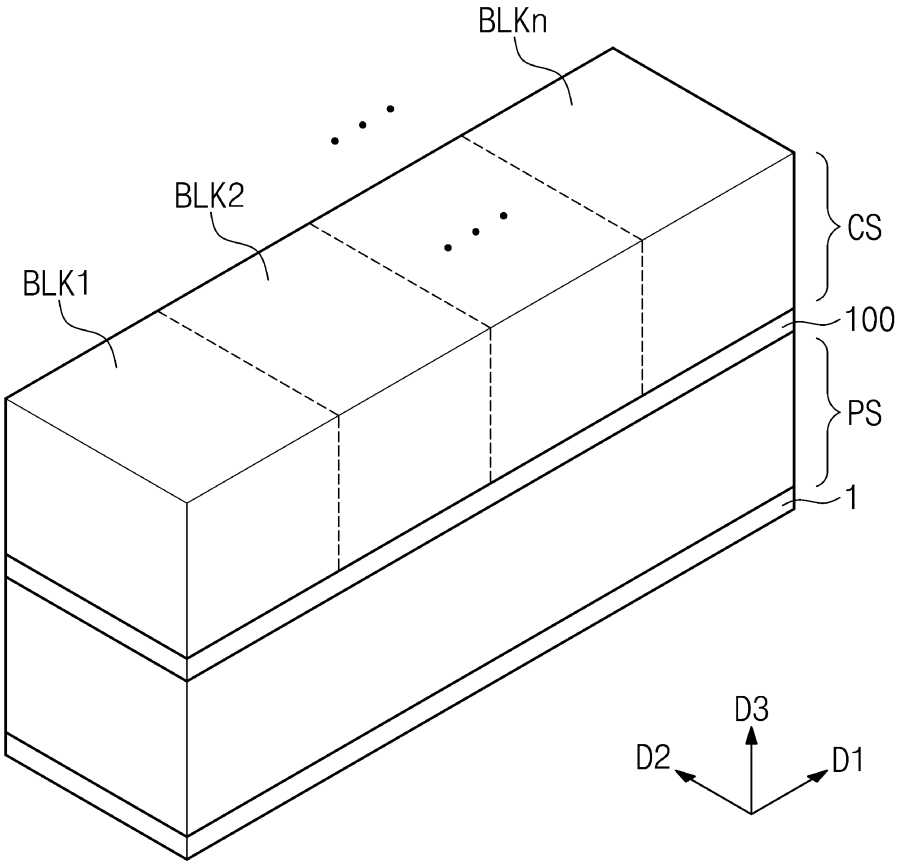

FIG. 3

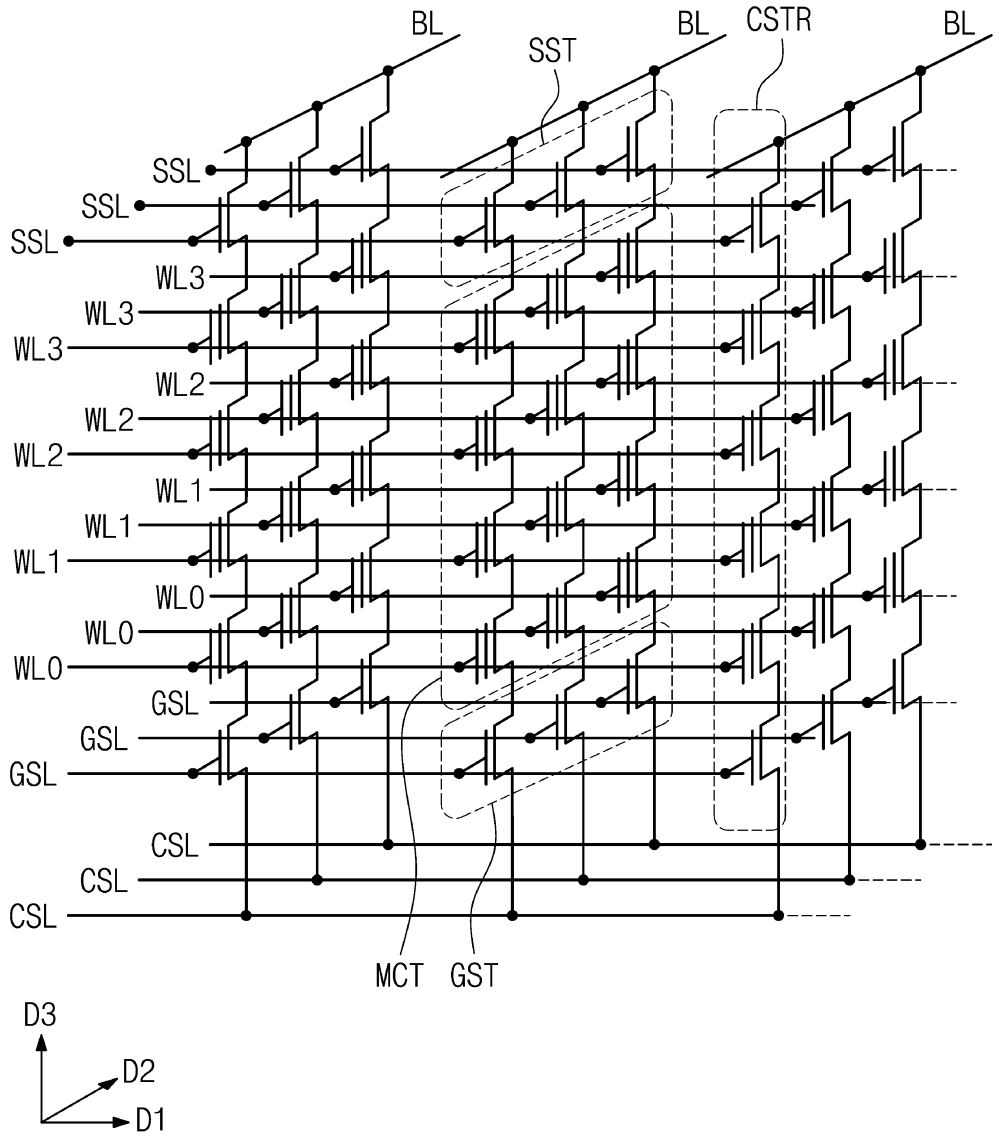
BL
BL
CSTR
BL
SST
SSL
SSL
SSL
WL3
WL3
WL3
WL2
WL2
WL2
WL1
WL1
WL1
WL0
WL0
WL0
GSL
GSL
GSL
CSL
CSL
CSL
MCT
GST
D3
D2
D1

FIG. 4A

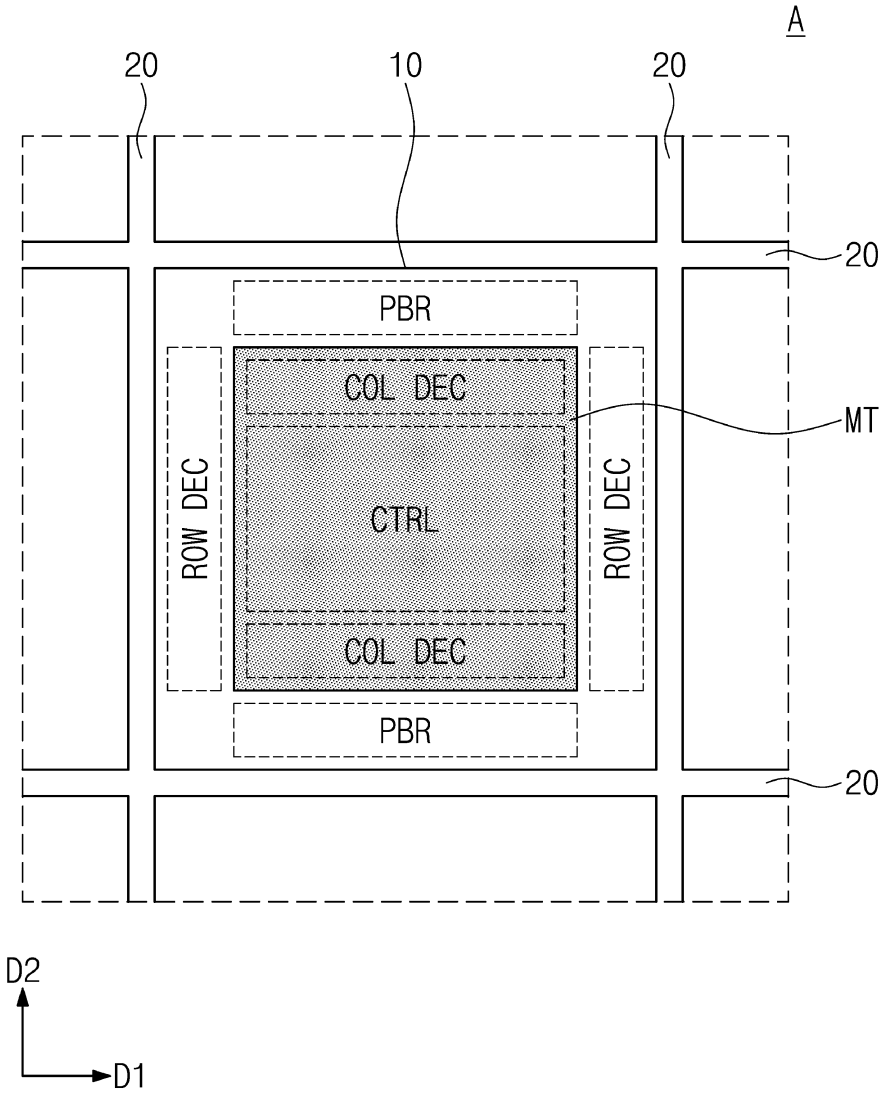
A
20
10
20
20
PBR
COL DEC
MT
ROW DEC
CTRL
ROW DEC
COL DEC
PBR
20
D2
D1

FIG. 4B

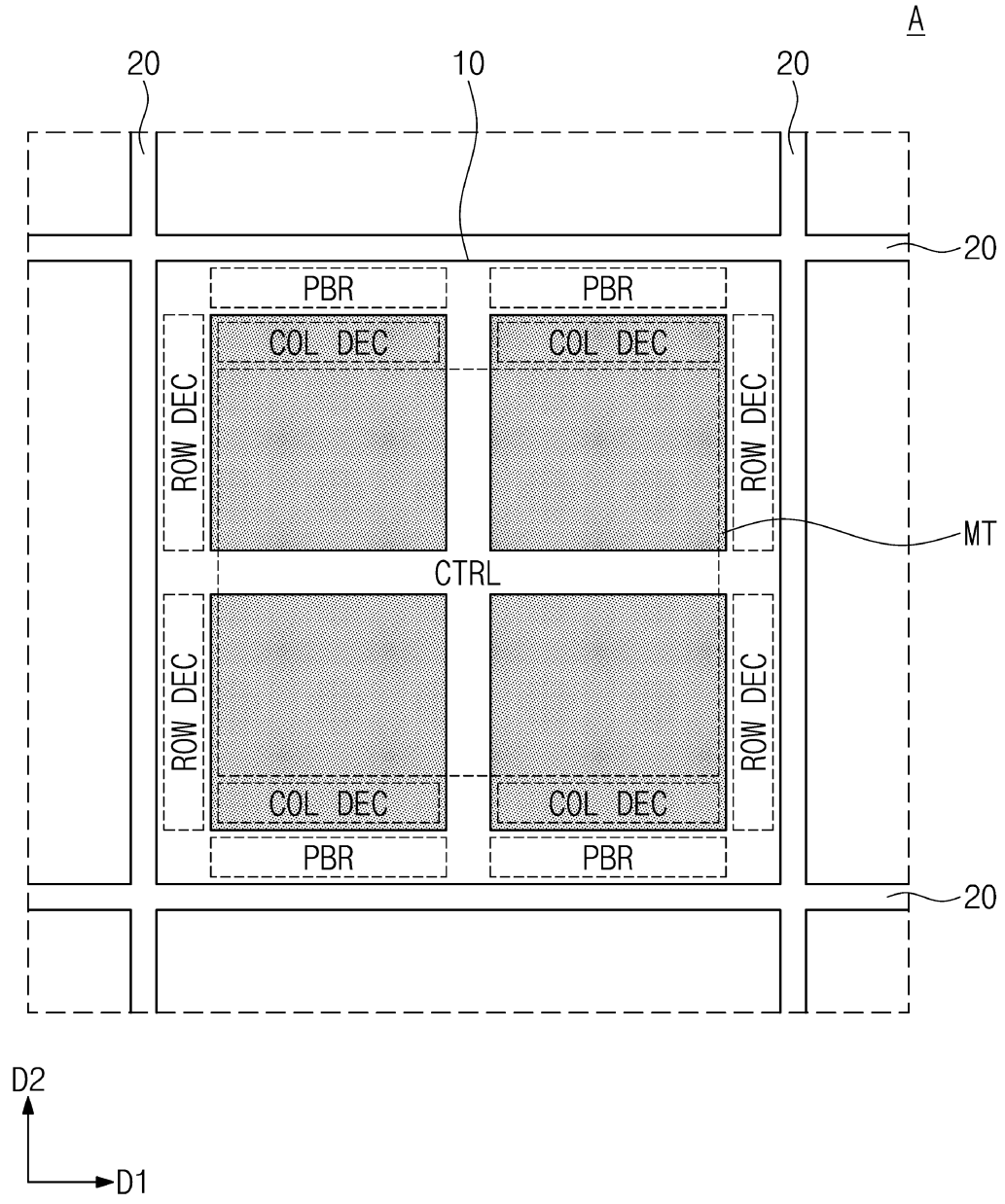
A
20
10
20
20
PBR
PBR
COL DEC
COL DEC
ROW DEC
ROW DEC
MT
CTRL
ROW DEC
ROW DEC
COL DEC
COL DEC
PBR
PBR
20
D2
D1

FIG. 5

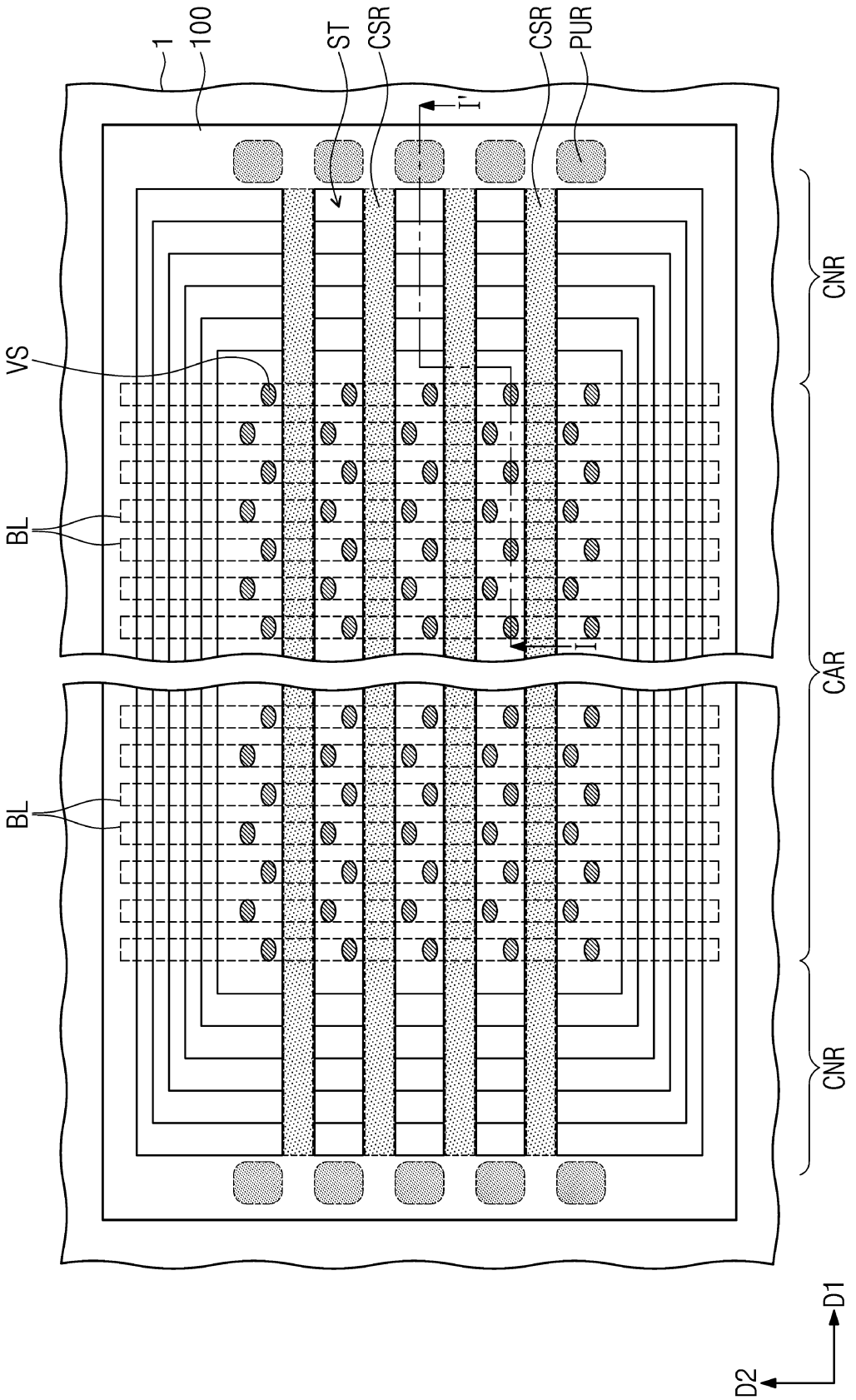

FIG. 6A

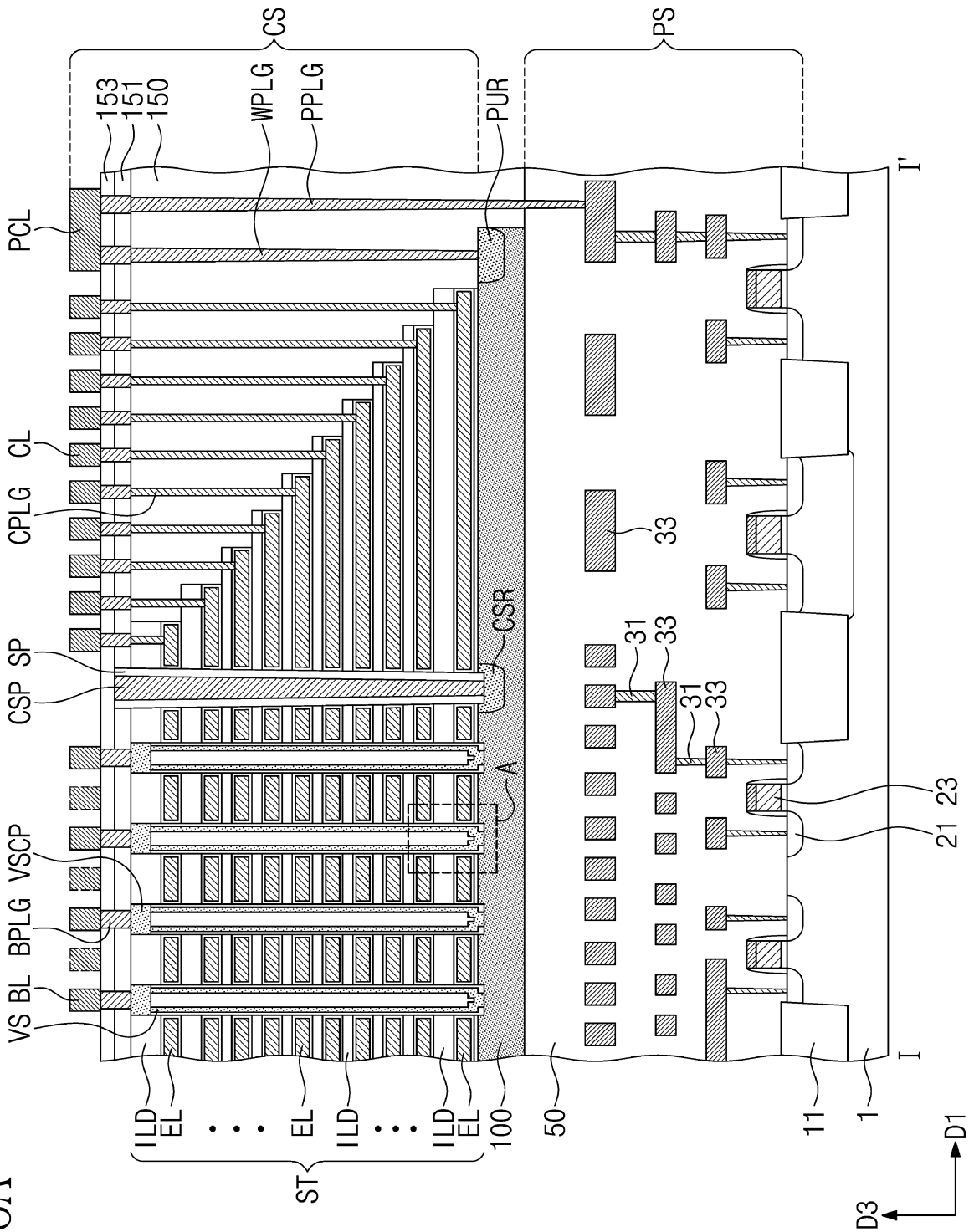
CS
PS
153
151
150
WPLG
PPLG
PUR
I'
PCL
CL
CPLG
CSP
SP
CSR
33
31
33
31
33
A
VSCP
BPLG
VS
BL
23
21
ILD
EL
ILD
EL
ILD
EL
100
50
11
1
I
ST
D3
D1

FIG. 6B

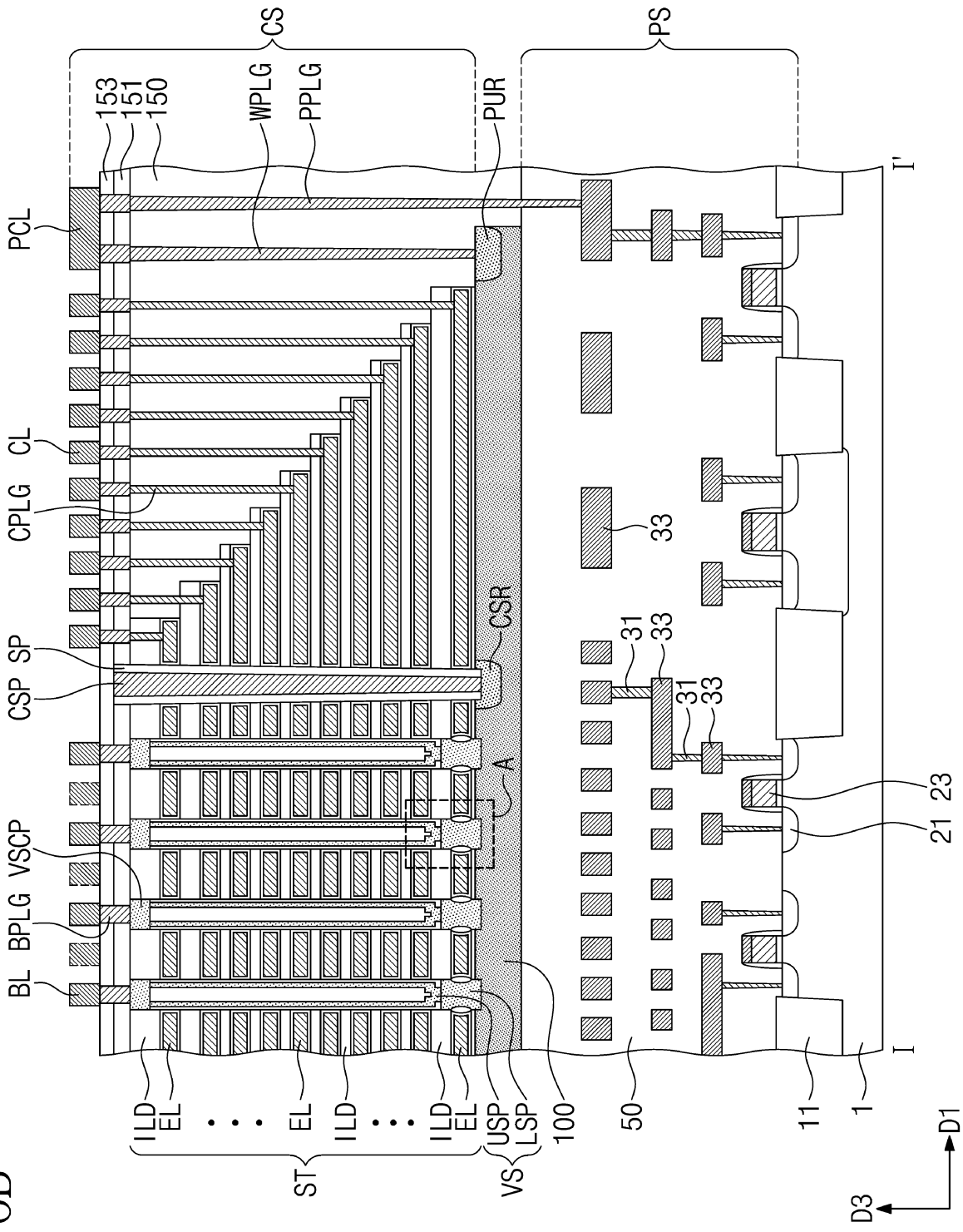
CS
PS
153
151
150
WPLG
PPLG
PUR
PCL
CL
CPLG
CSP
SP
CSR
VSCP
BPLG
BL
A
33
31
33
31
33
23
21
ILD
EL
EL
ILD
ILD
EL
USP
LSP
100
50
11
1
I
I'
ST
VS
D3
D1

FIG. 7A

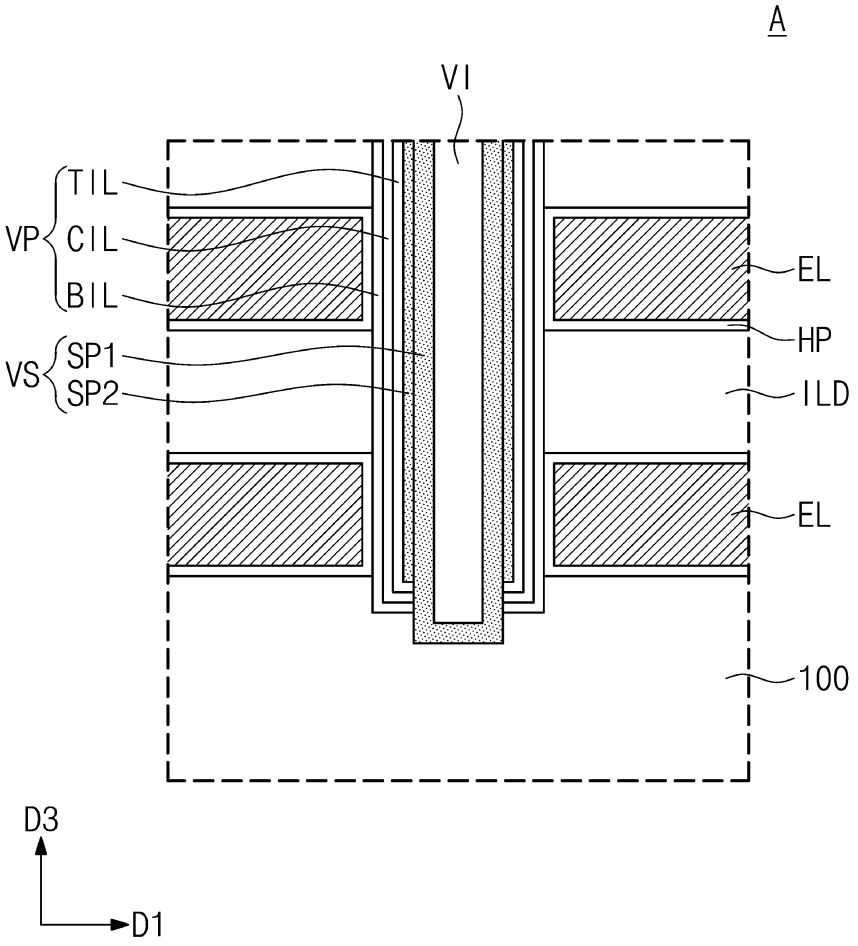

FIG. 7B

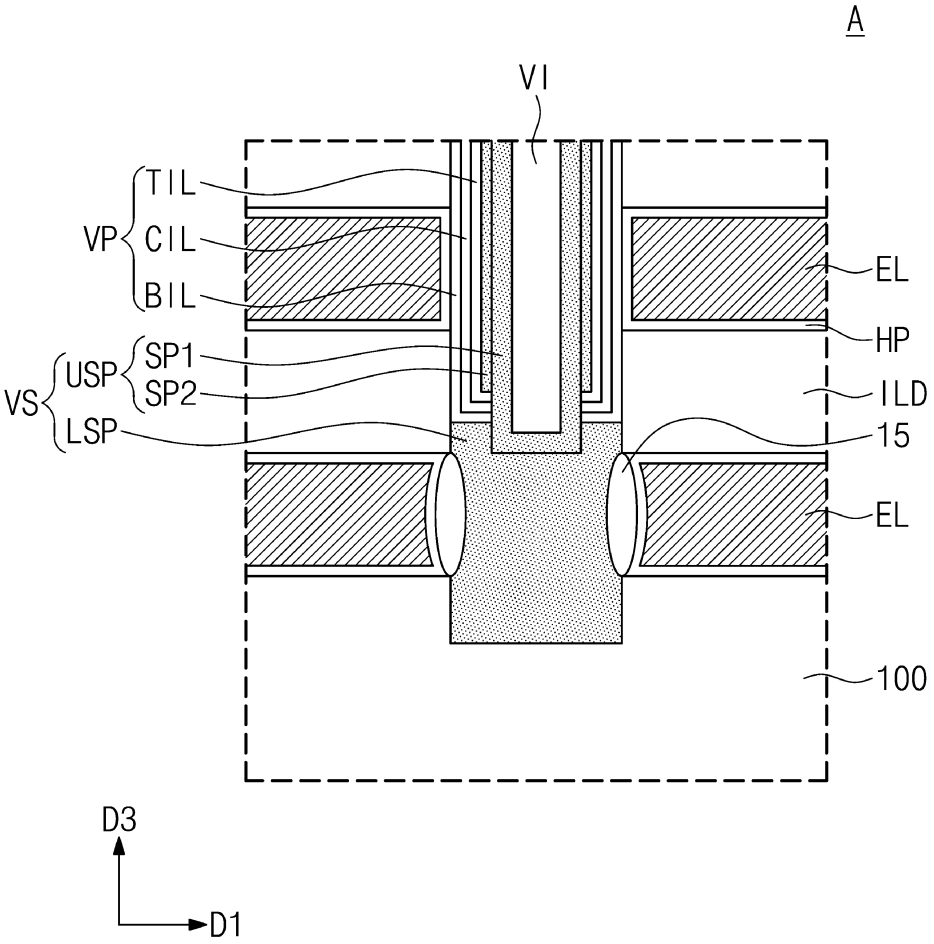

FIG. 8A

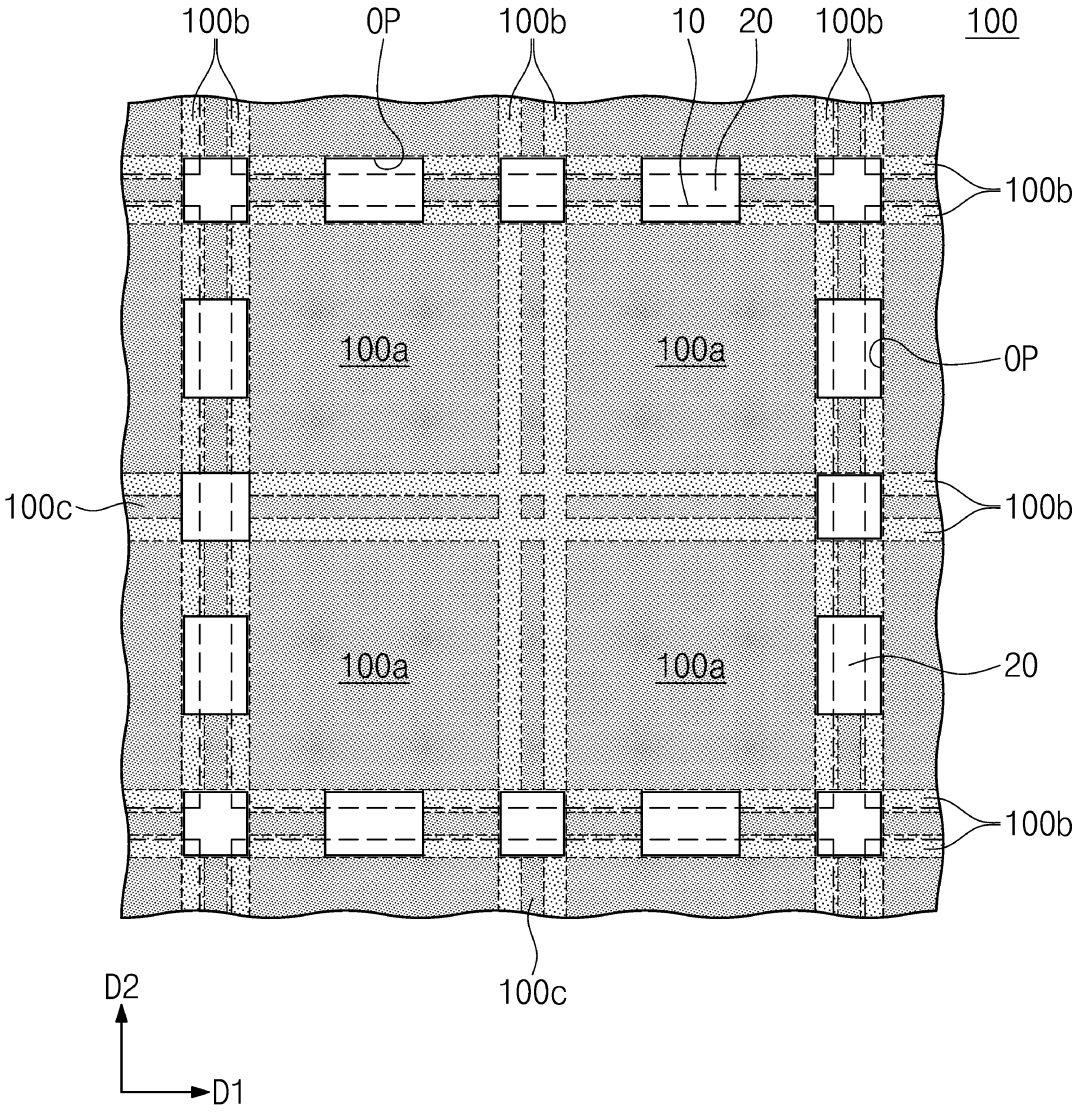
100b
0P
100b
10
20
100b
100
100b
100a
100a
0P
100c
100b
100a
100a
20
100b
100c
D2
D1

FIG. 8B

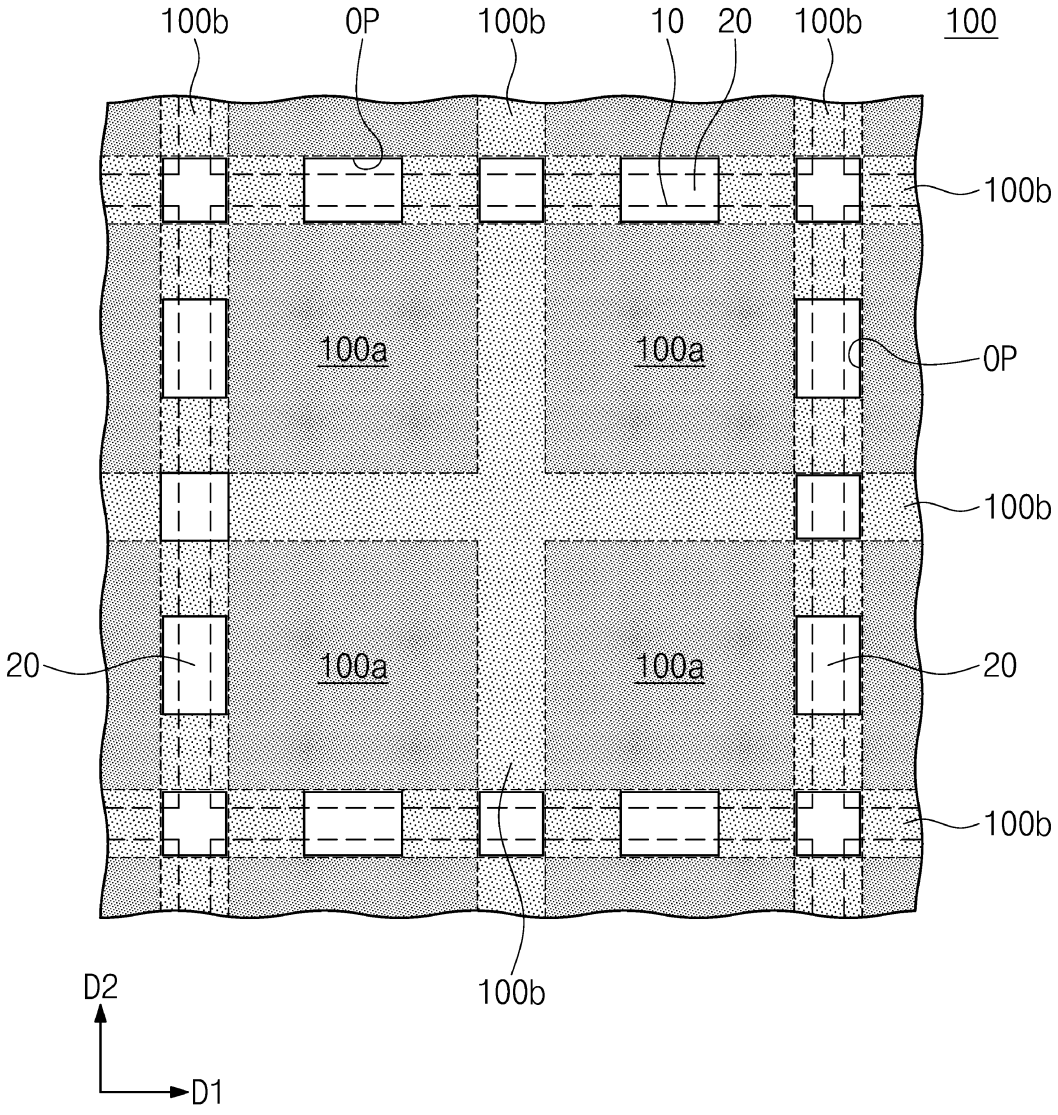
100b
0P
100b
10
20
100b
100
100b
100a
100a
0P
100b
20
100a
100a
20
100b
100b
D2
D1

FIG. 8C

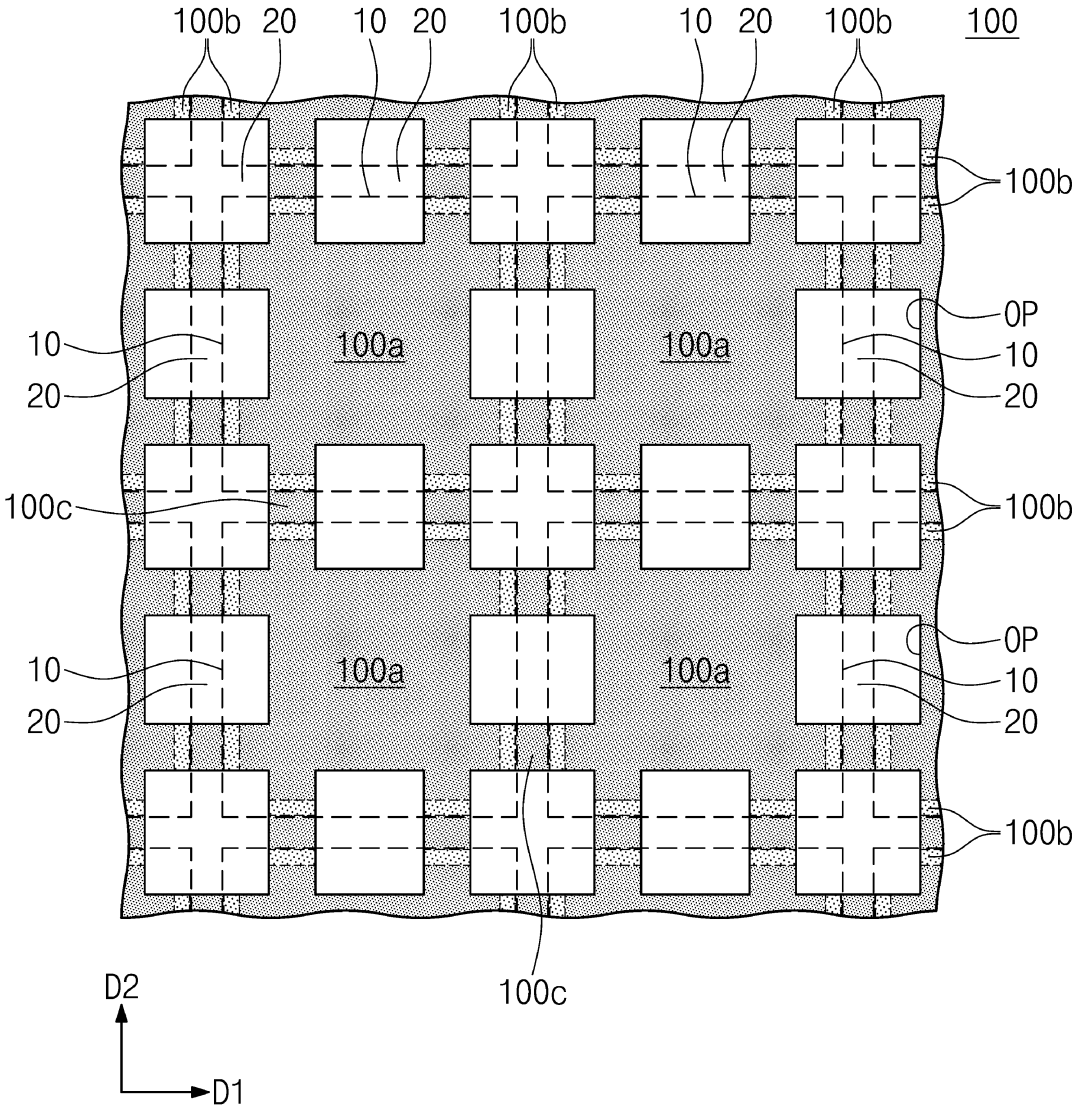
100b
20
10
20
100b
10
20
100b
100
100b
0P
10
20
10
100a
100a
100c
100b
0P
10
20
10
100a
100a
100b
100c
D2
D1

FIG. 8D

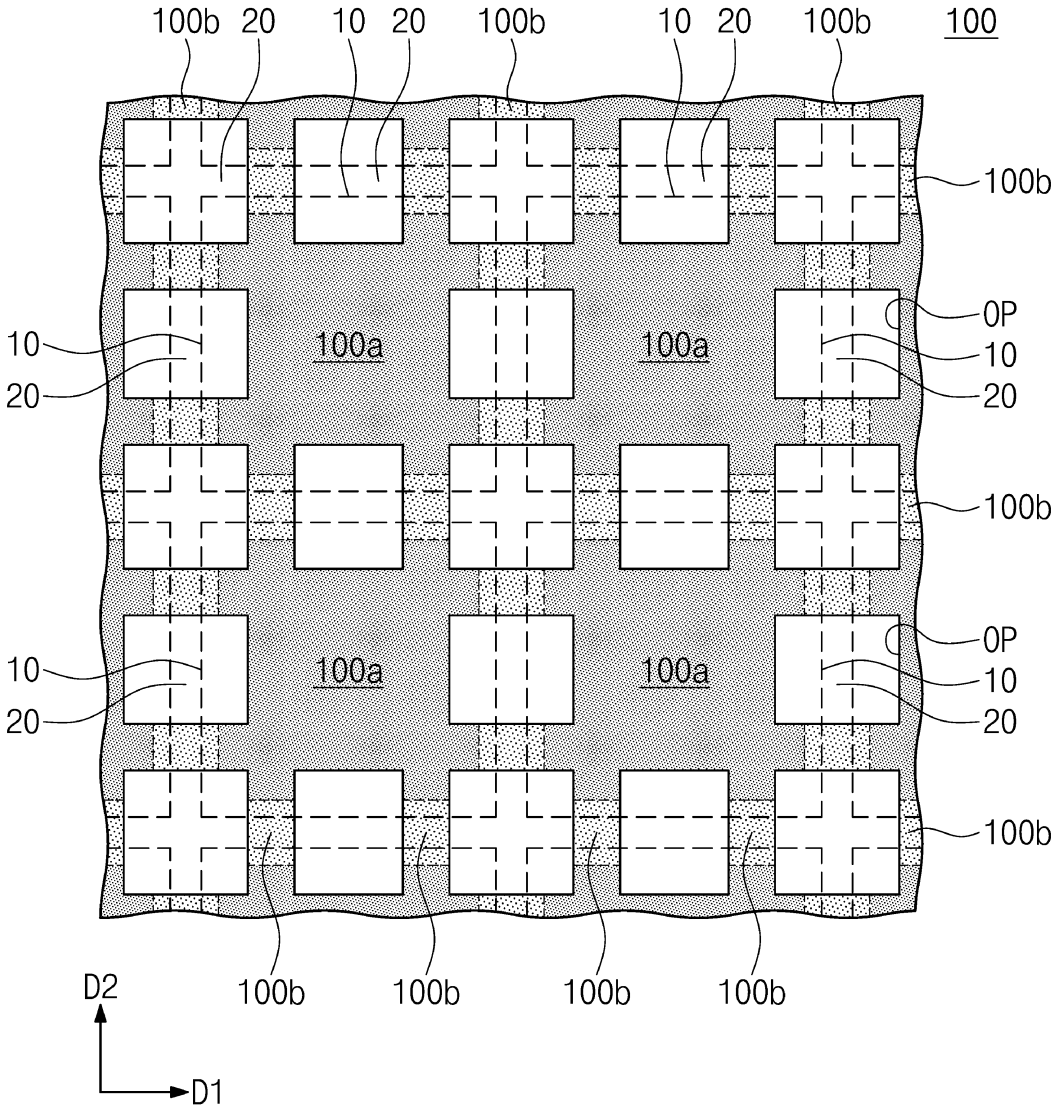
100b
20
10
20
100b
10
20
100b
100
100b
0P
10
20
10
20
100a
100a
100b
0P
10
20
10
20
100a
100a
100b
100b
100b
100b
100b
D2
D1

FIG. 9

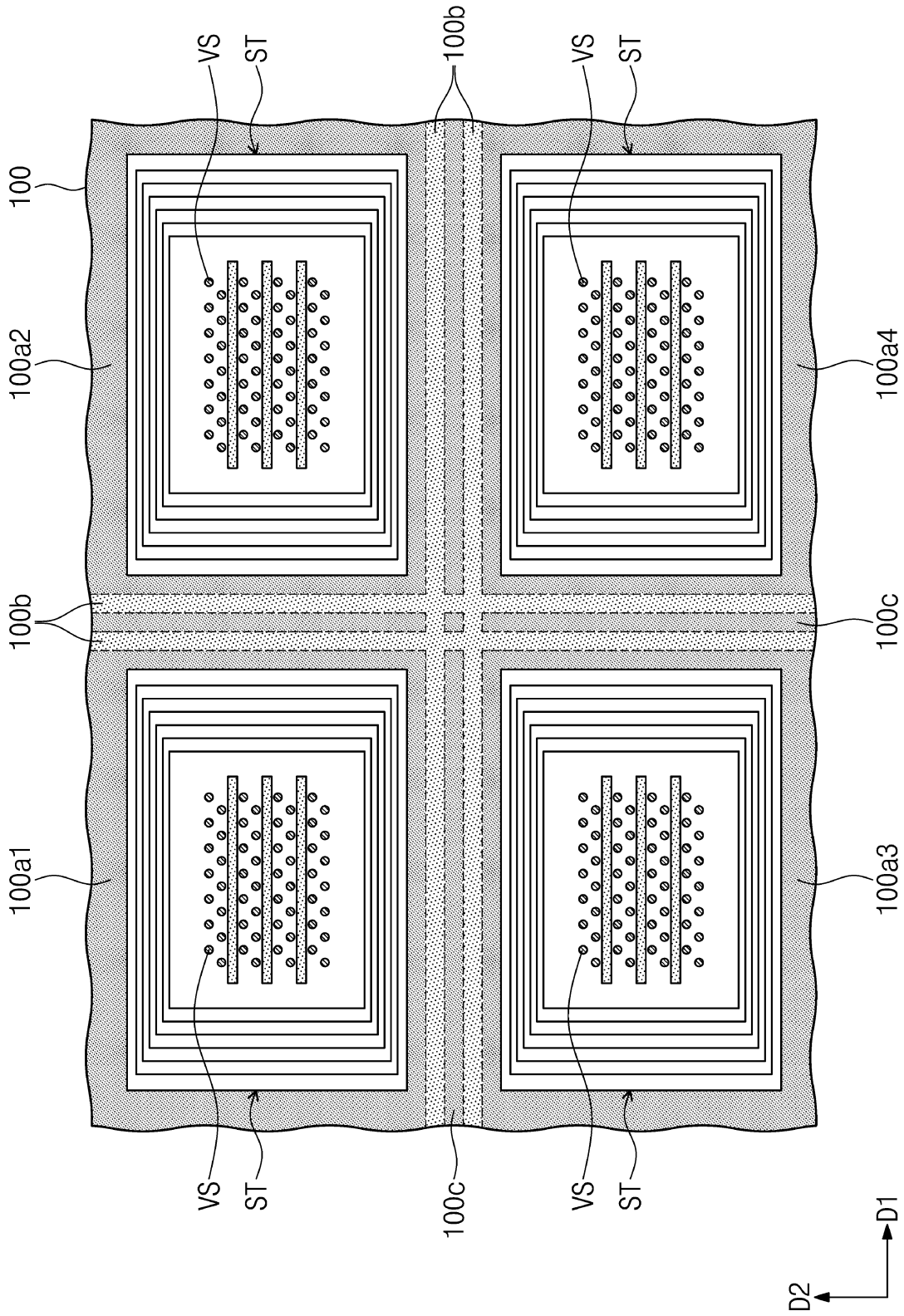
100
100a1
100a2
100a3
100a4
100b
100b
100c
100c
VS
ST
VS
ST
VS
ST
VS
ST
D1
D2

FIG. 10A

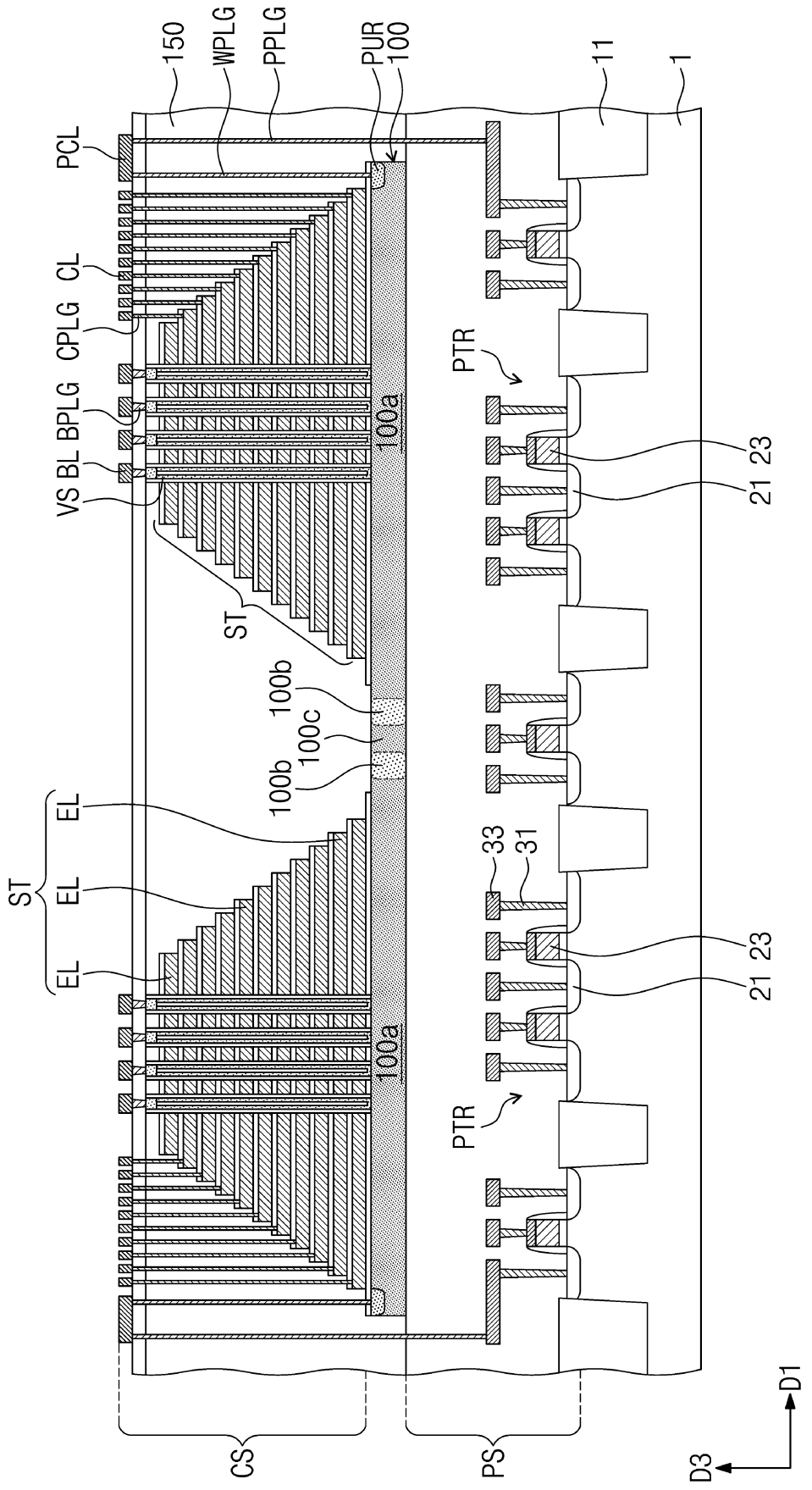
150
WPLG
PPLG
PUR
100
11
1
PCL
CL
CPLG
BPLG
VS
BL
ST
EL
100a
100b
100c
PTR
33
31
21
23
CS
PS
D1
D3

FIG. 10B

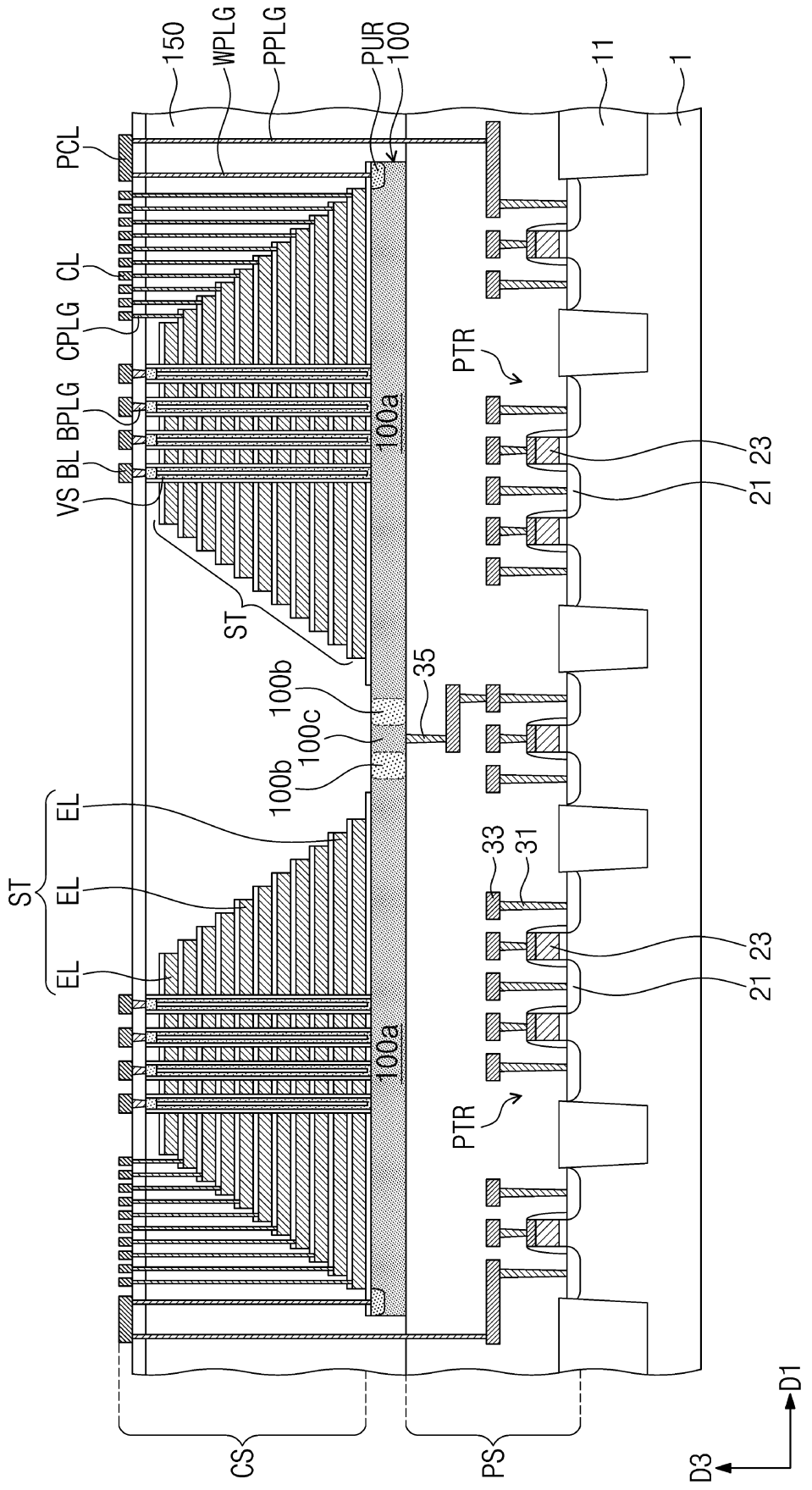
150
WPLG
PPLG
PUR
100
11
1
PCL
CL
CPLG
BPLG
VS BL
ST
100a
PTR
21 23
35
100b
100c
EL
33
31
CS
PS
D1
D3

FIG. 11

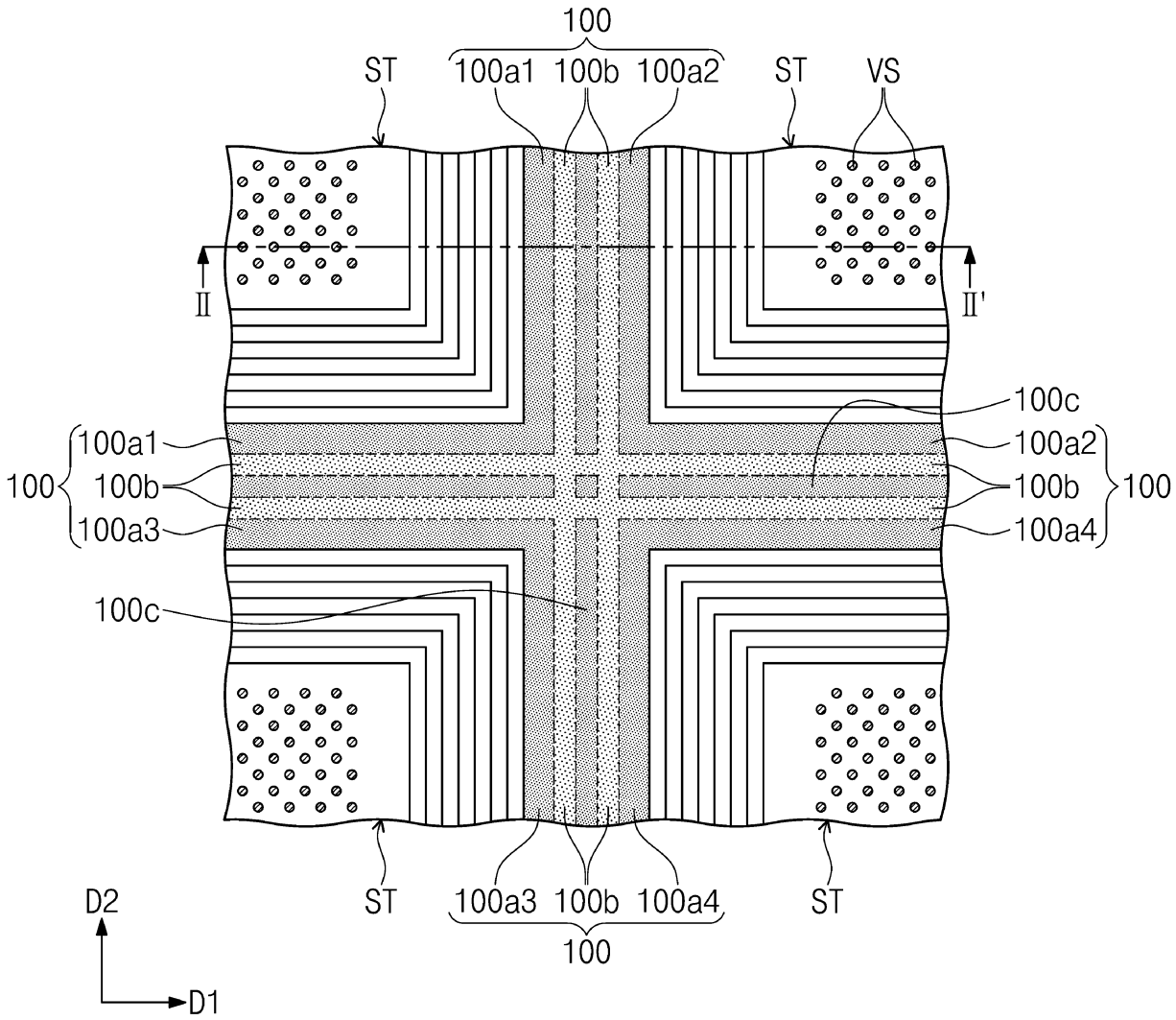
100
ST
100a1
100b
100a2
ST
VS
II
II'
100c
100a1
100
100b
100a3
100a2
100b
100a4
100
100c
ST
100a3
100b
100a4
ST
100
D2
D1

FIG. 12

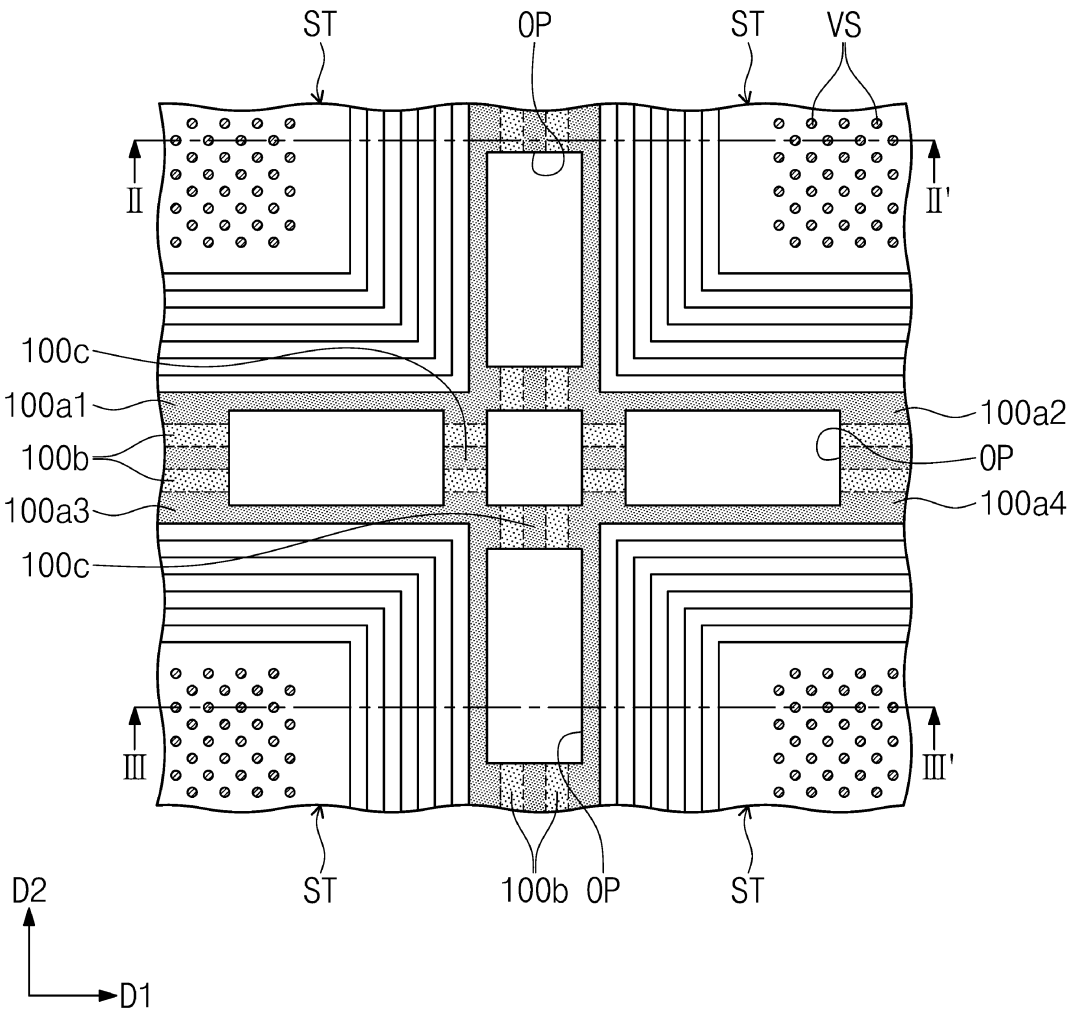
ST
OP
ST
VS
II
II'
100c
100a1
100b
100a3
100c
100a2
OP
100a4
III
III'
ST
100b
OP
ST
D2
D1

FIG. 13

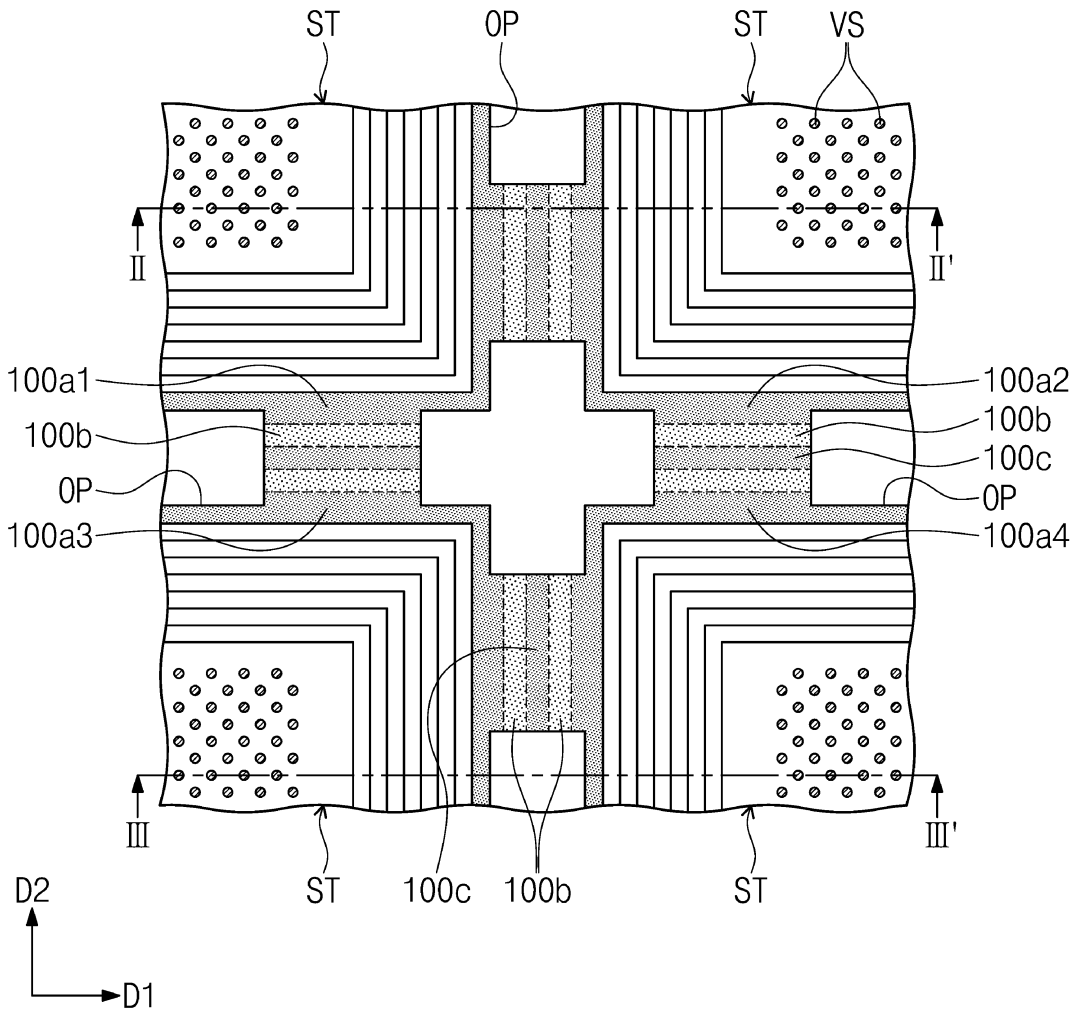
ST
0P
ST
VS
II
II'
100a1
100a2
100b
100b
100c
0P
0P
100a3
100a4
III
III'
ST
100c
100b
ST
D2
D1

FIG. 14

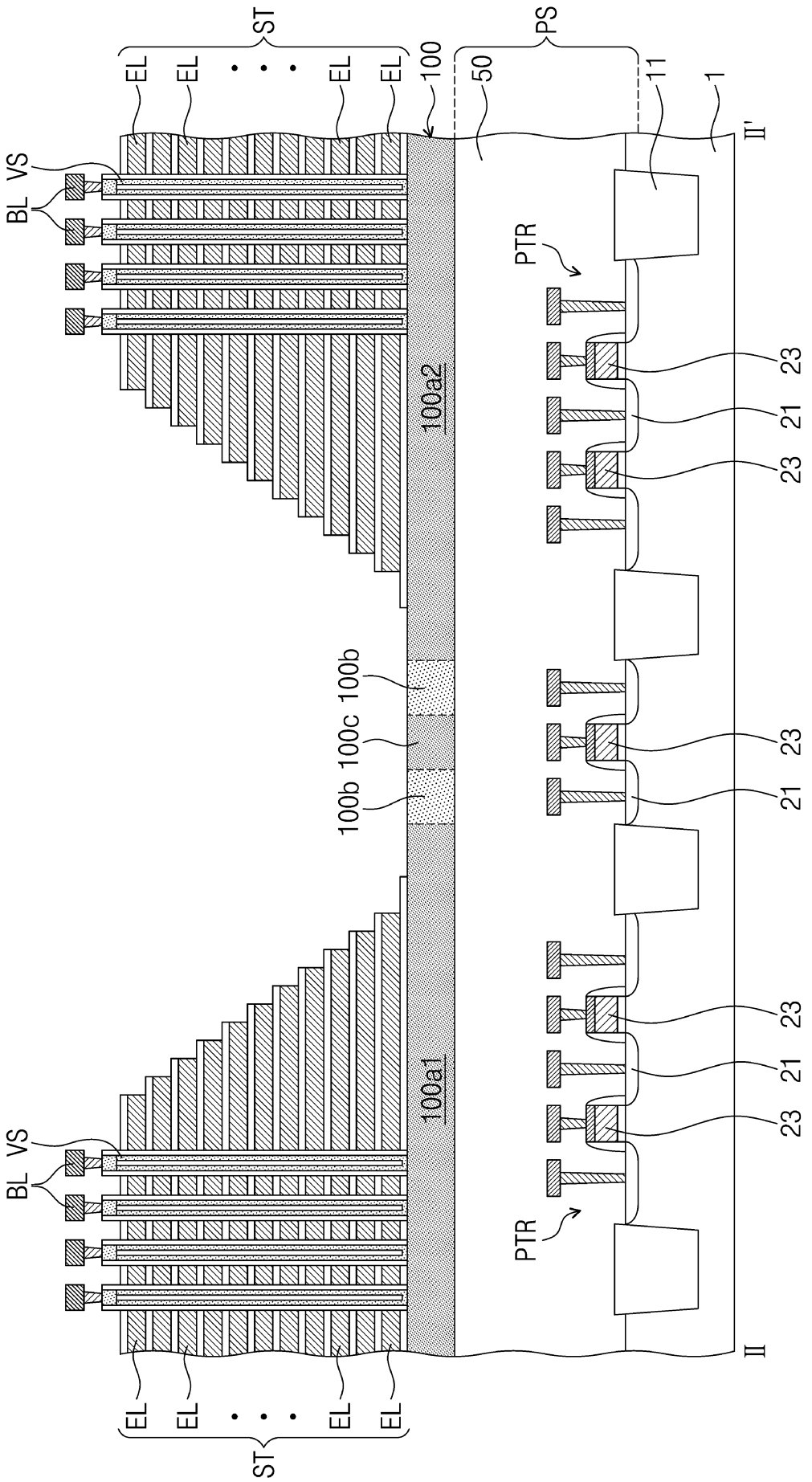
ST
EL
EL
EL
EL
100
PS
50
11
1
II'
BL
VS
PTR
23
21
100a2
100b
100c
100a1
II

FIG. 15

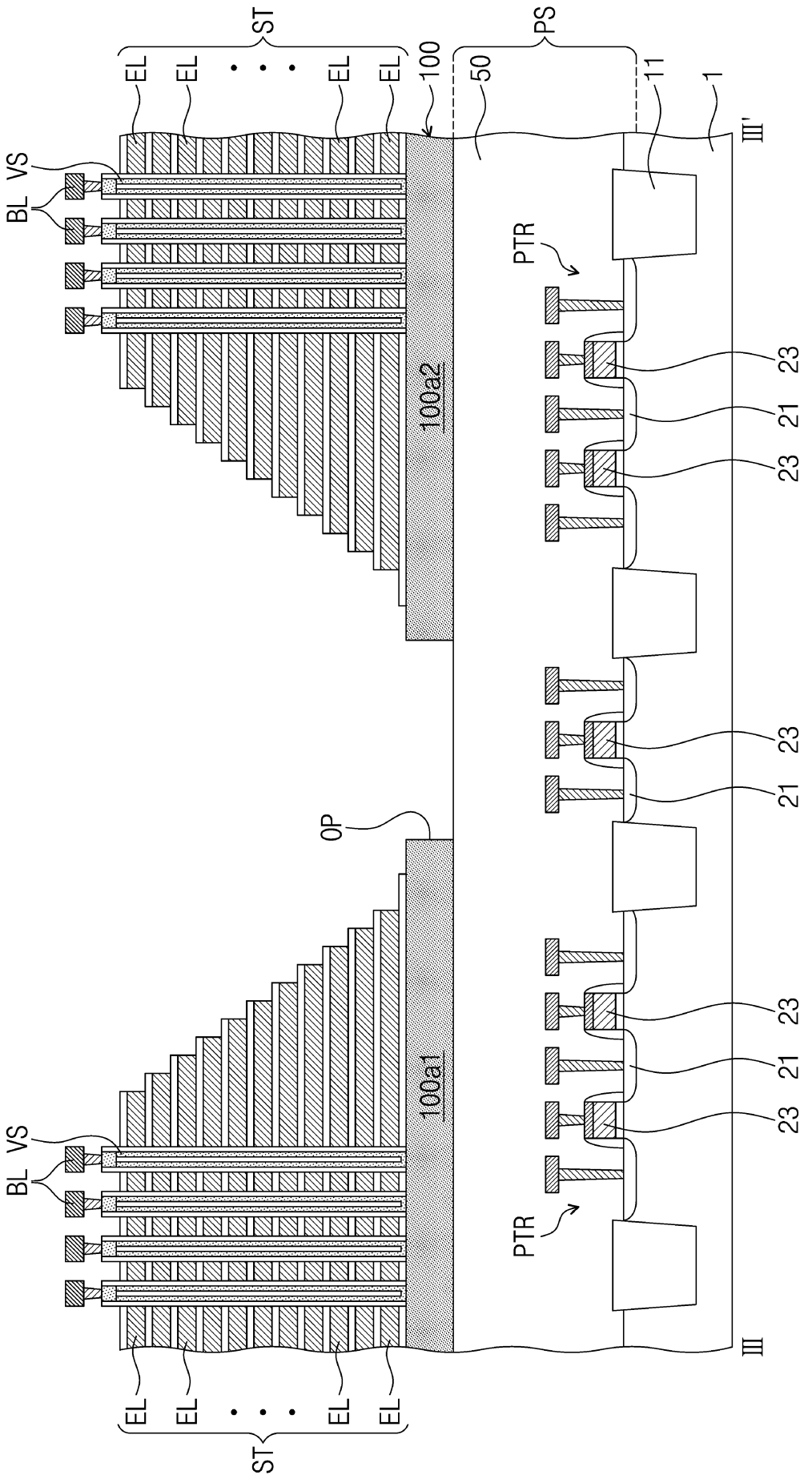
ST
EL
EL
EL
EL
100
PS
50
11
1
III'
BL
VS
100a2
PTR
23
21
23
0P
100a1
III

FIG. 16

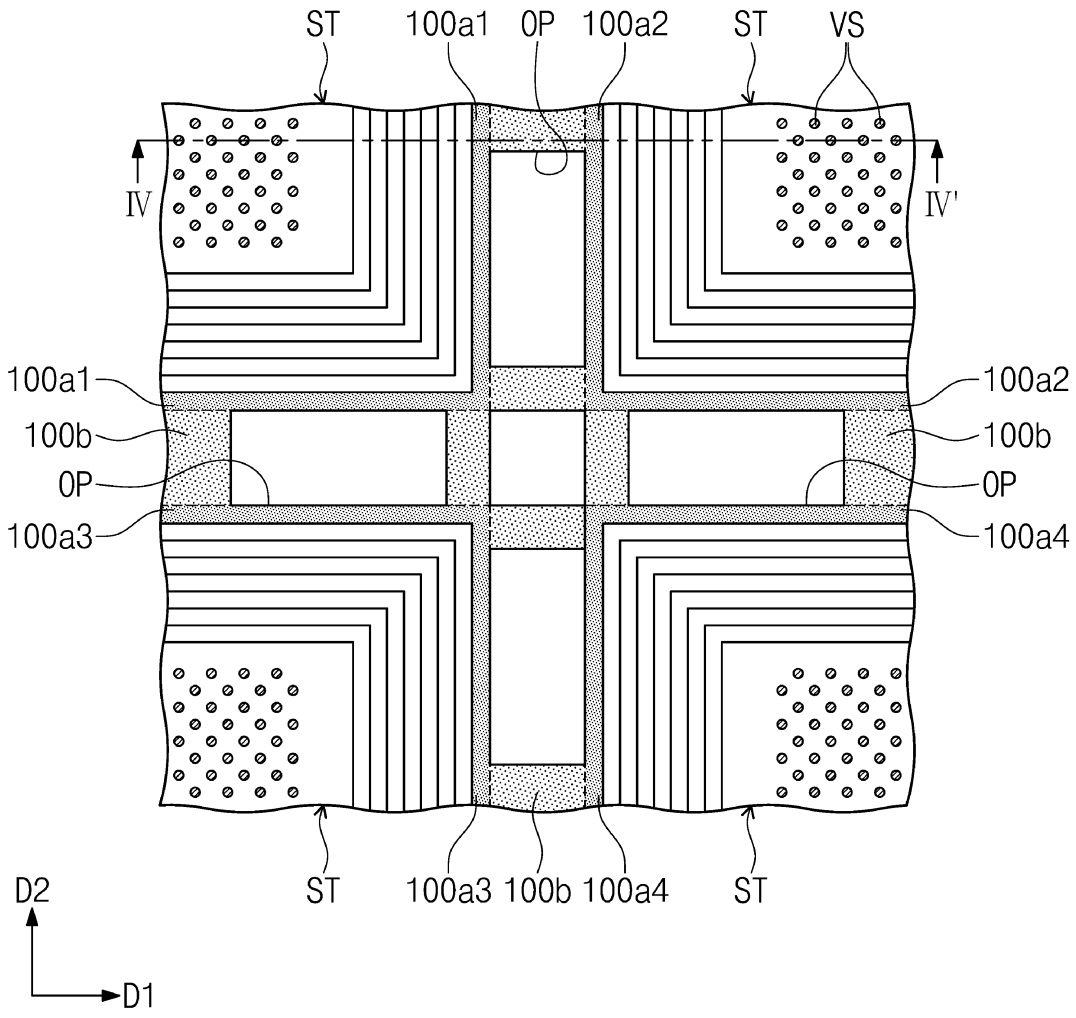
ST
100a1
0P
100a2
ST
VS
IV
IV'
100a1
100b
0P
100a3
100a2
100b
0P
100a4
ST
100a3
100b
100a4
ST
D2
D1

FIG. 17

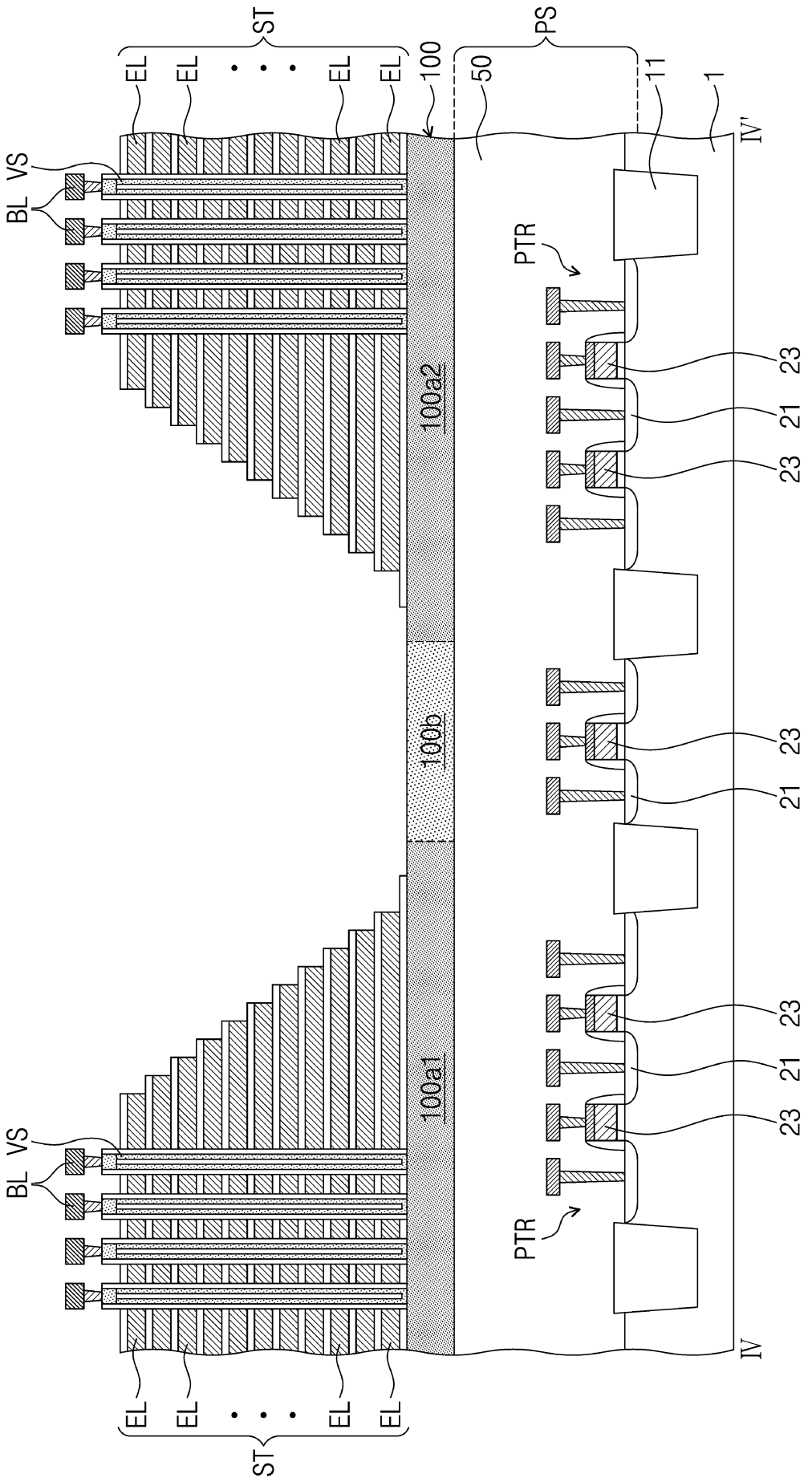

FIG. 18

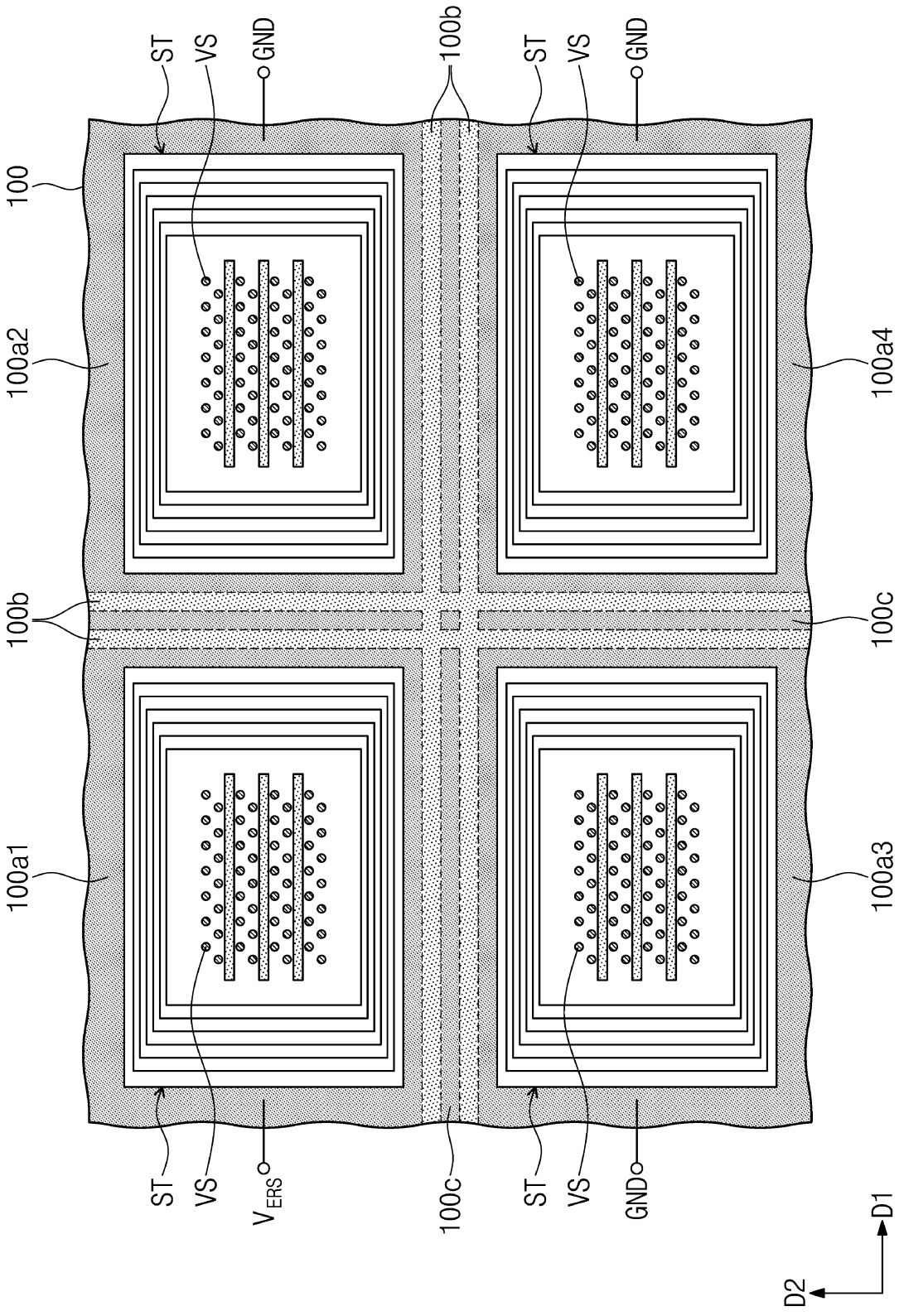
ST
VS
GND
100b
ST
VS
GND
100
100a2
100a4
100b
100c
100a1
100a3
ST
VS
V_{ERS}
100c
ST
VS
GND
D1
D2

FIG. 19A

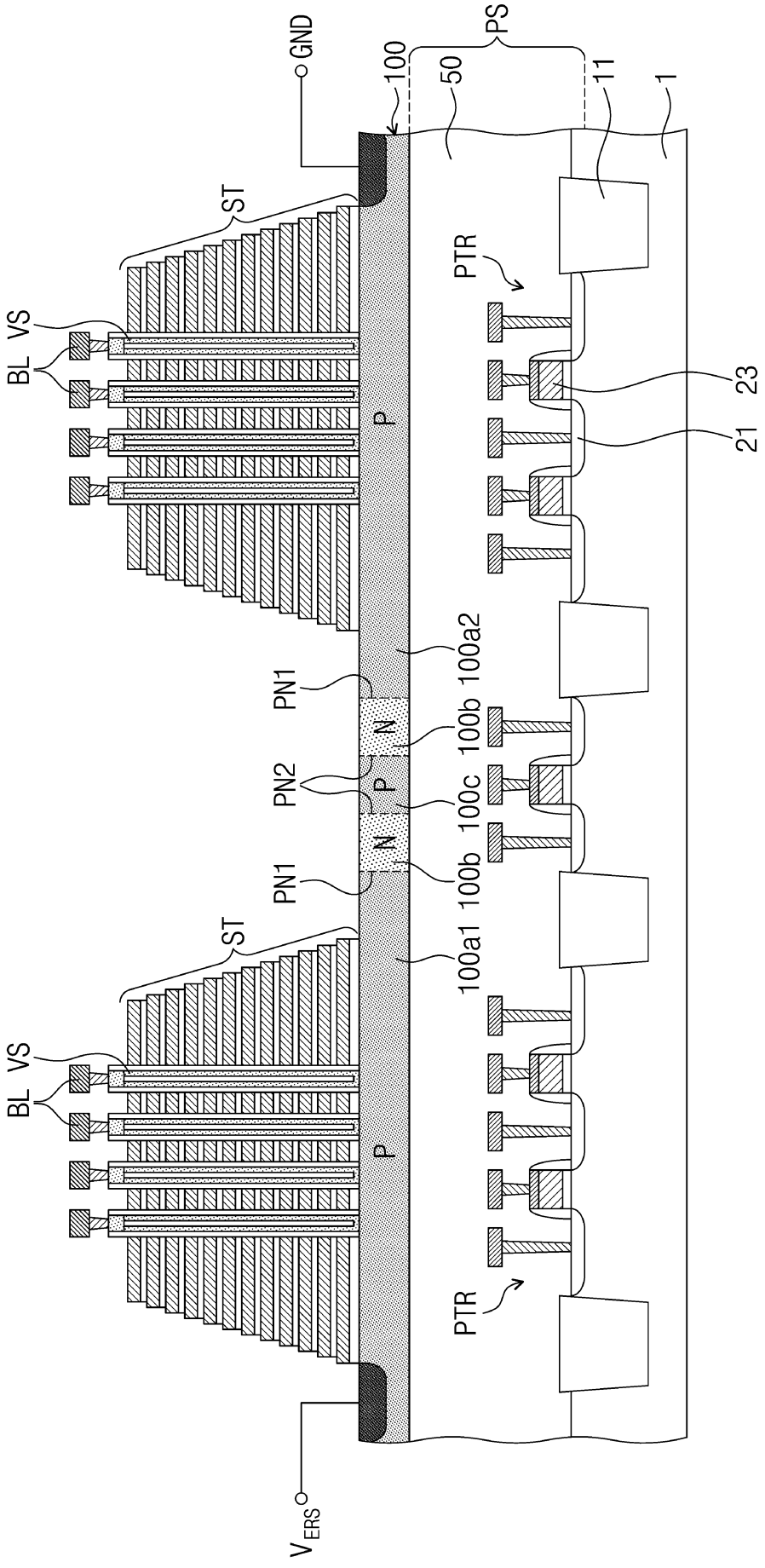
GND
100
50
PS
11
1
ST
BL
VS
PTR
23
21
P
N
PN1
PN2
100a2
100b
100c
100a1
V_{ERS}

FIG. 19B

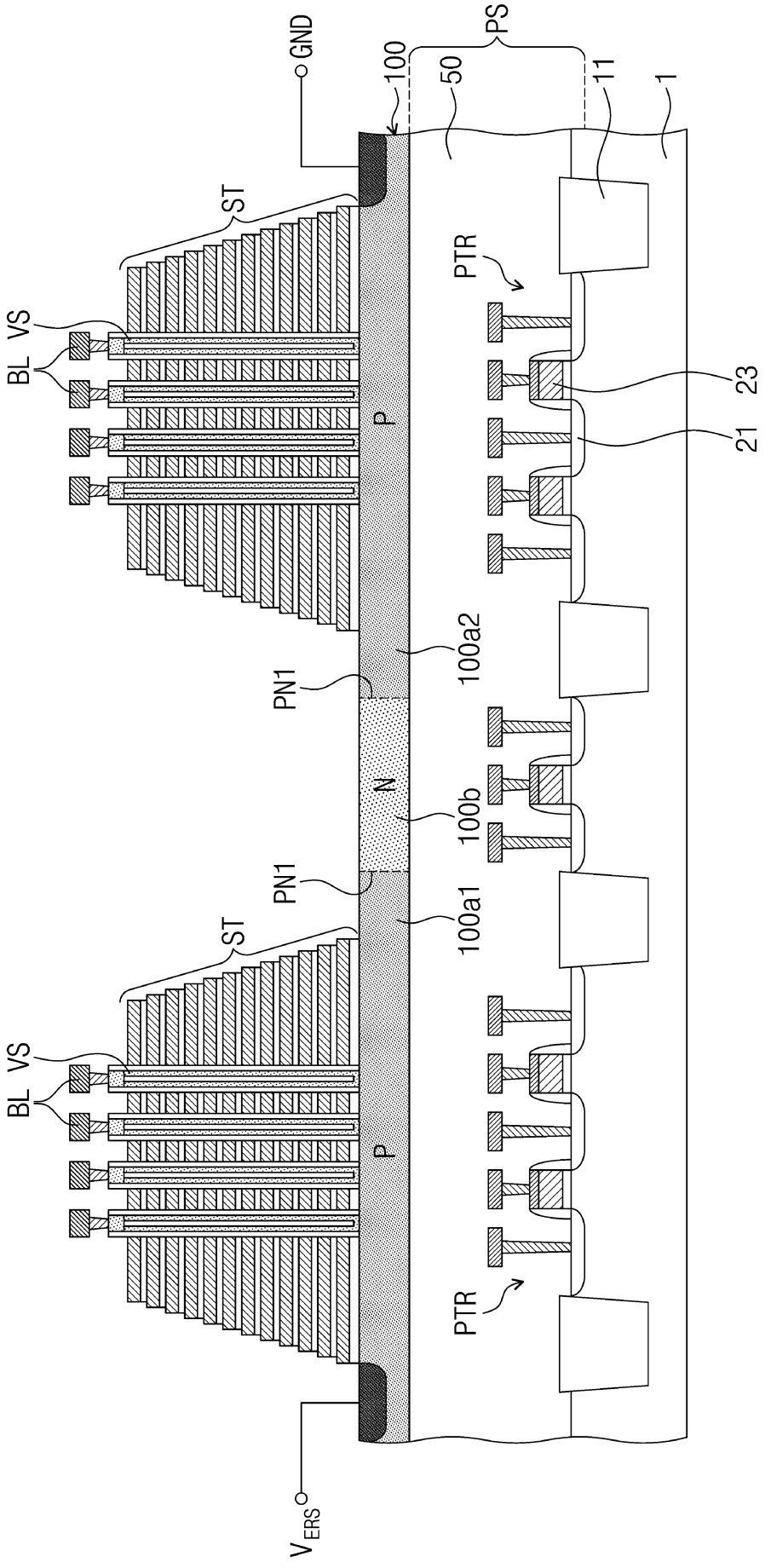
GND
100
50
PS
11
1
ST
BL
VS
P
PTR
23
21
PN1
100a2
N
100b
PN1
100a1
ST
BL
VS
P
PTR
V_{ERS}

FIG. 19C

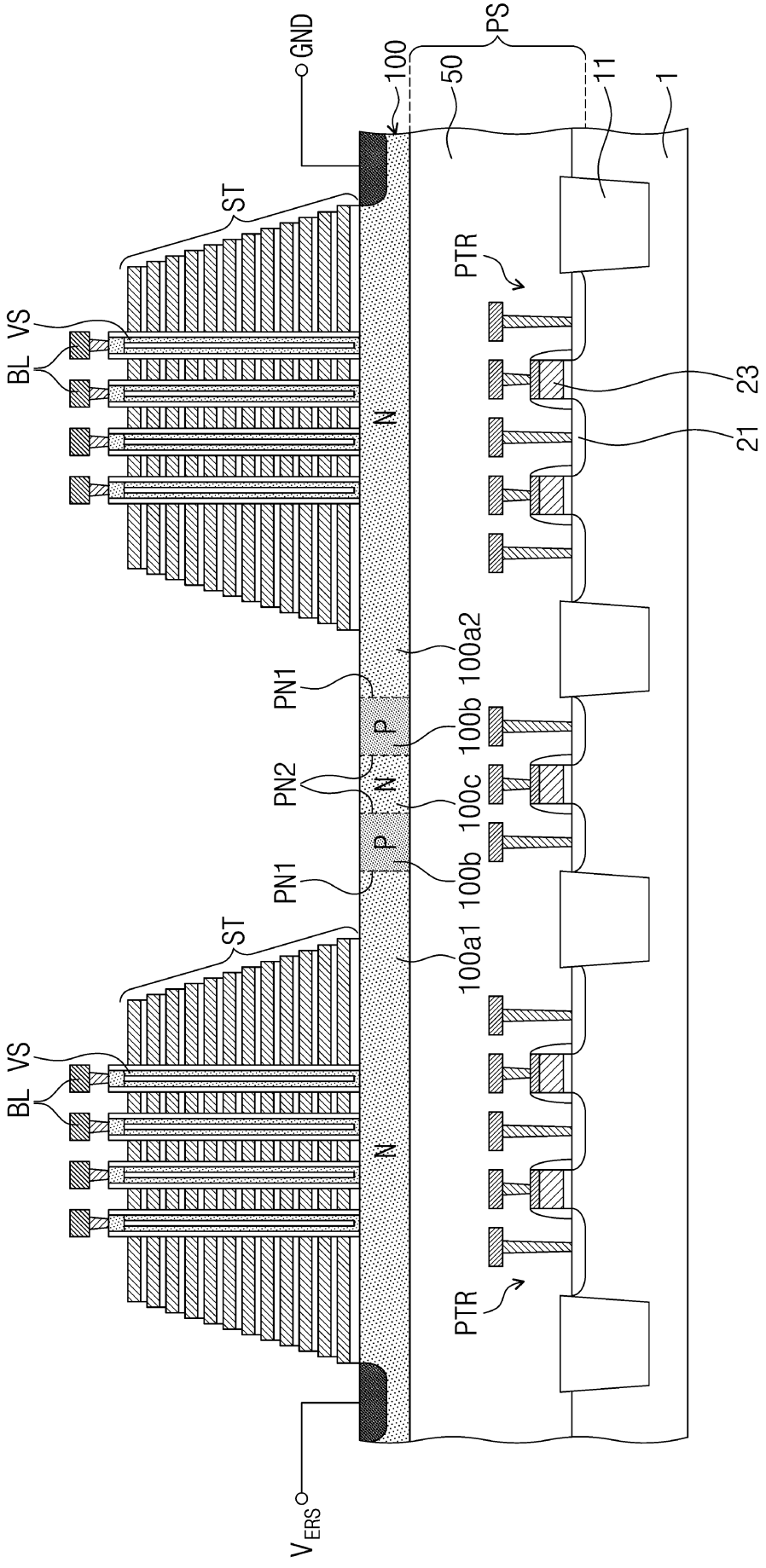
GND
100
50
PS
11
1
ST
BL
VS
PTR
23
21
N
PN1
P
100a2
100b
PN2
N
100c
P
PN1
100b
100a1
ST
BL
VS
N
PTR
V_{ERS}

FIG. 19D

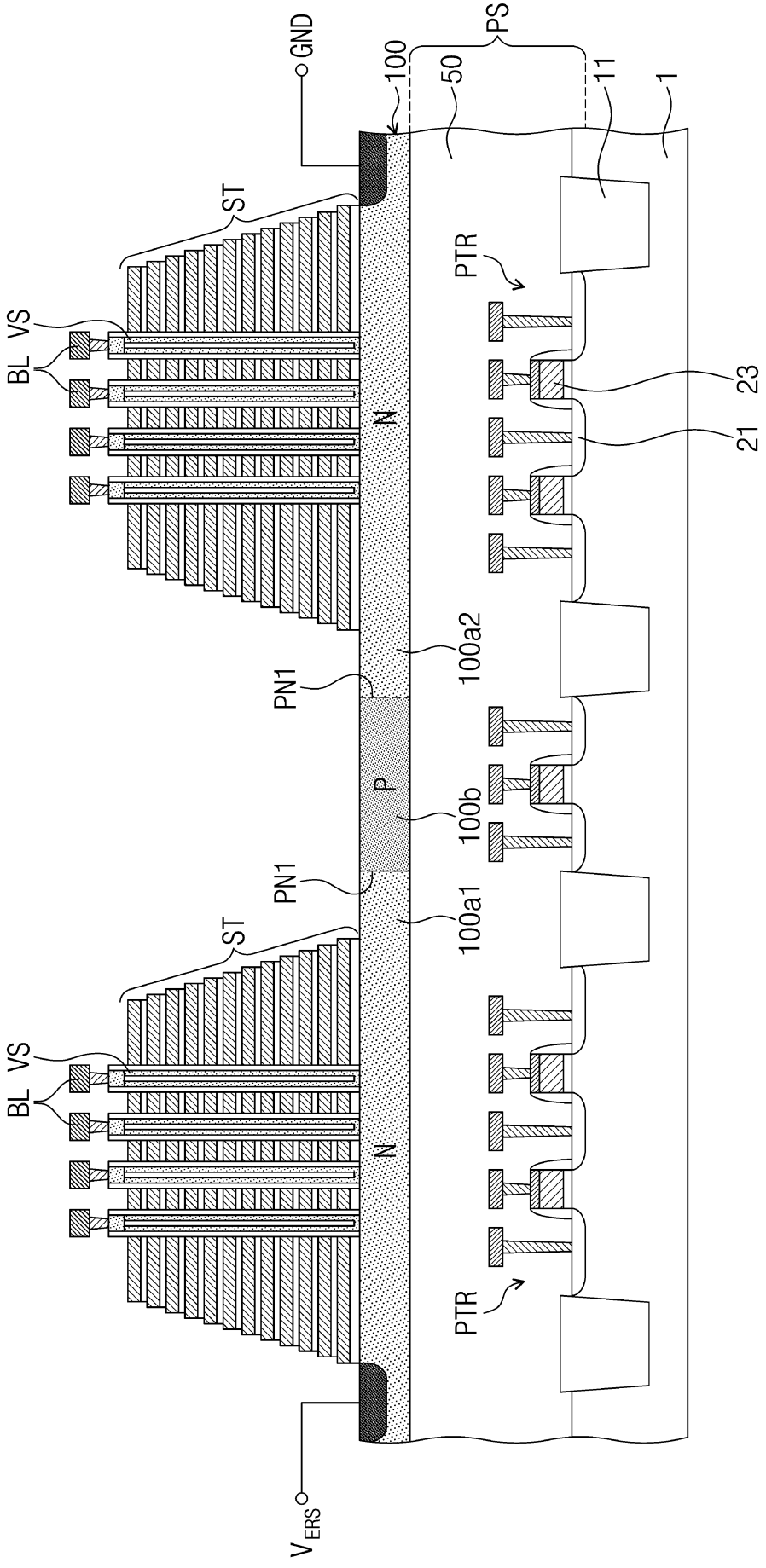
GND
100
50
PS
11
1
ST
BL
VS
PTR
23
21
N
PN1
100a2
P
100b
PN1
100a1
ST
BL
VS
N
PTR
V_{ERS}

FIG. 20

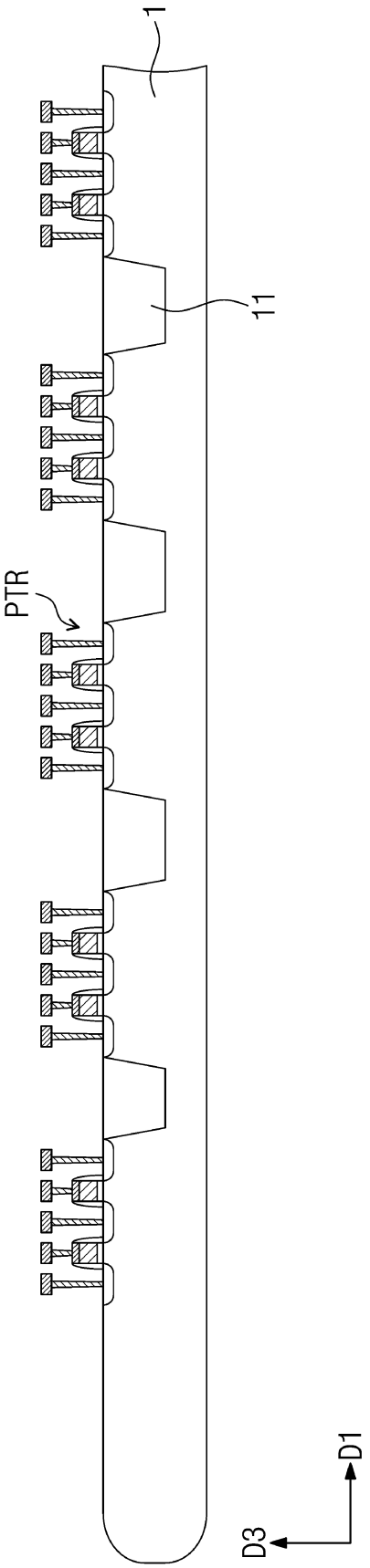

FIG. 21

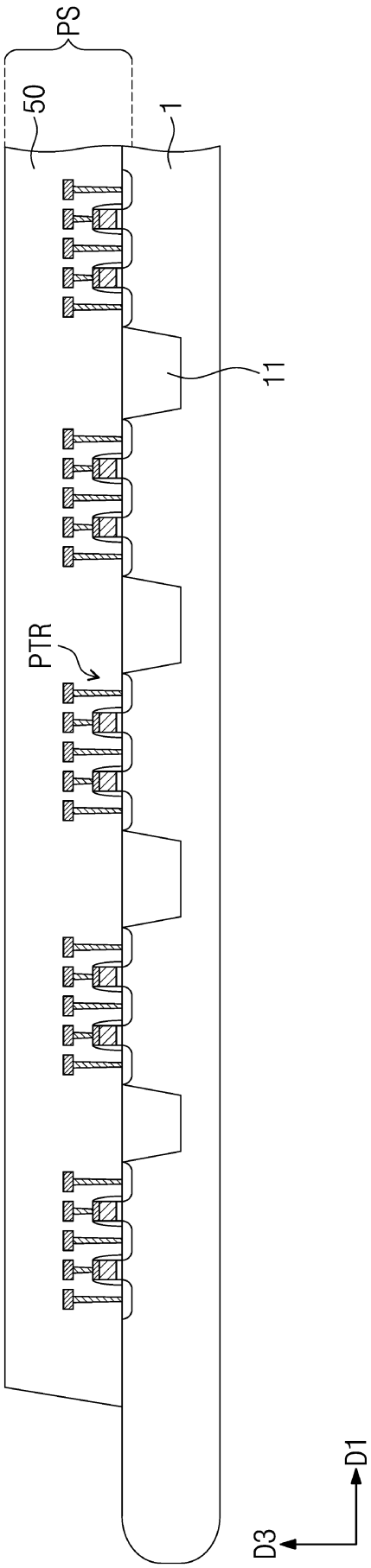

FIG. 22

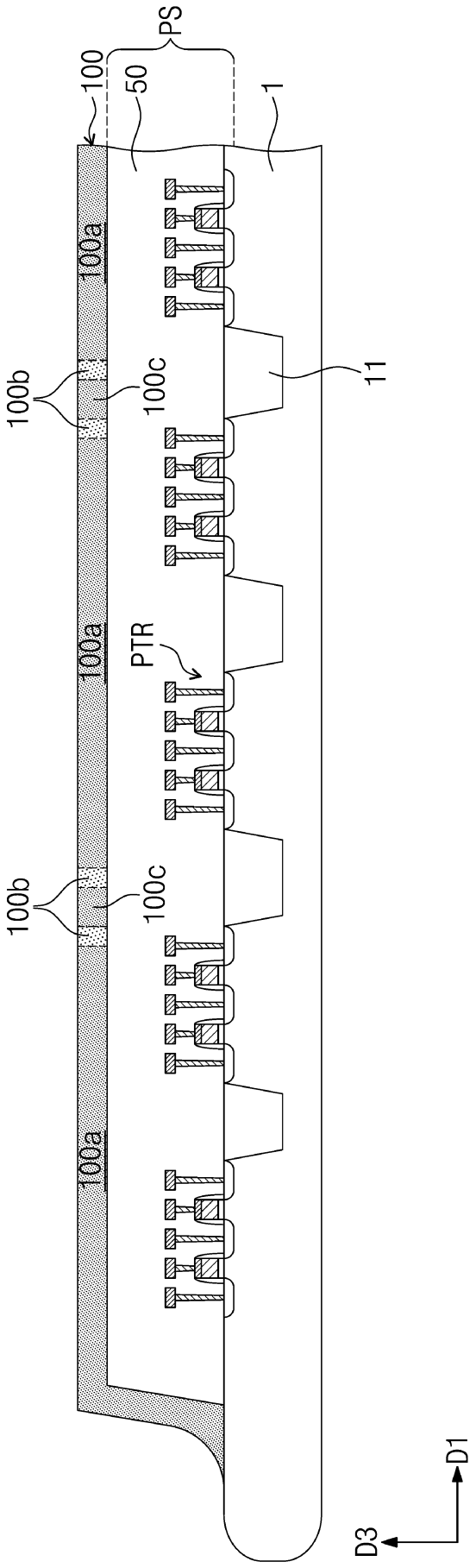

FIG. 23

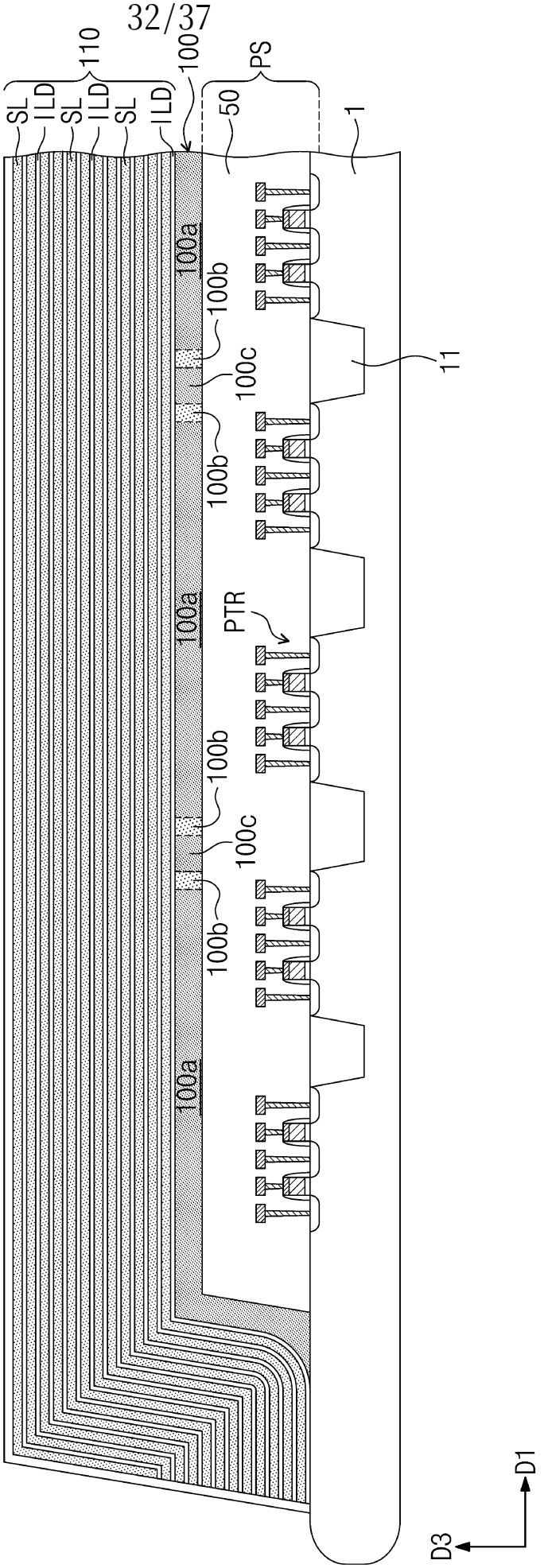

FIG. 24

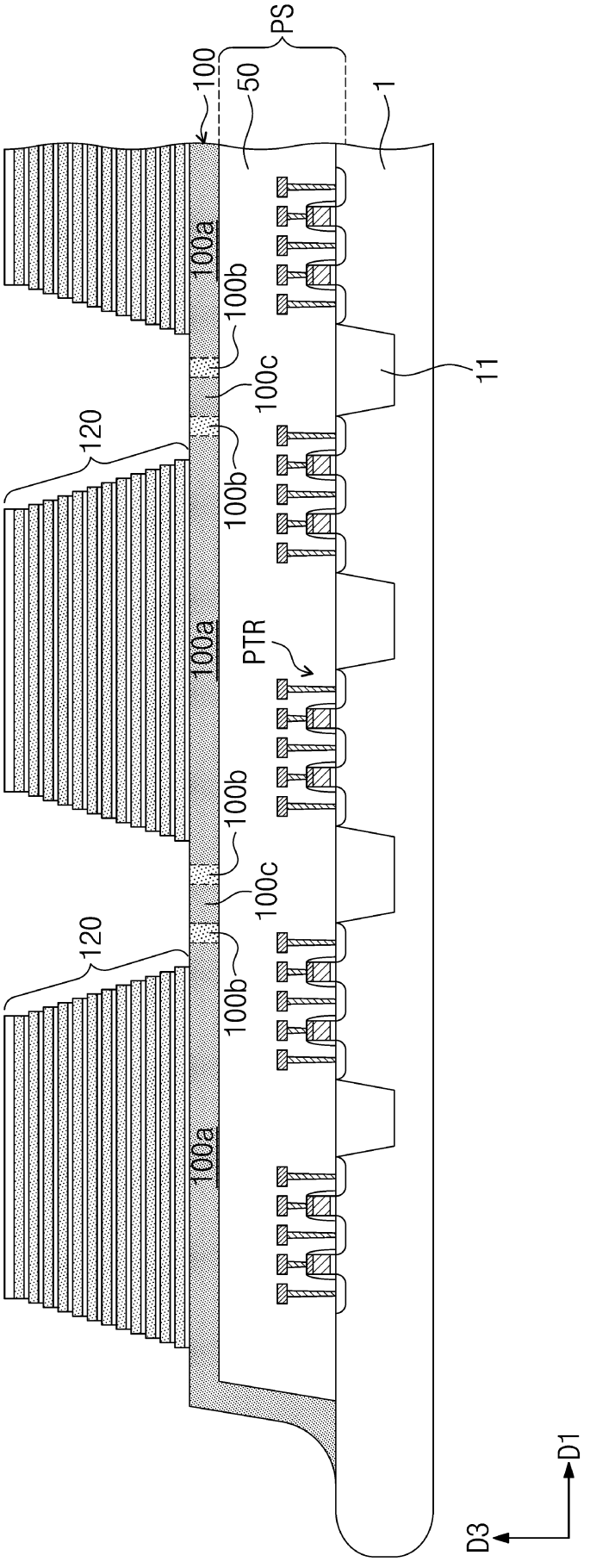

FIG. 25

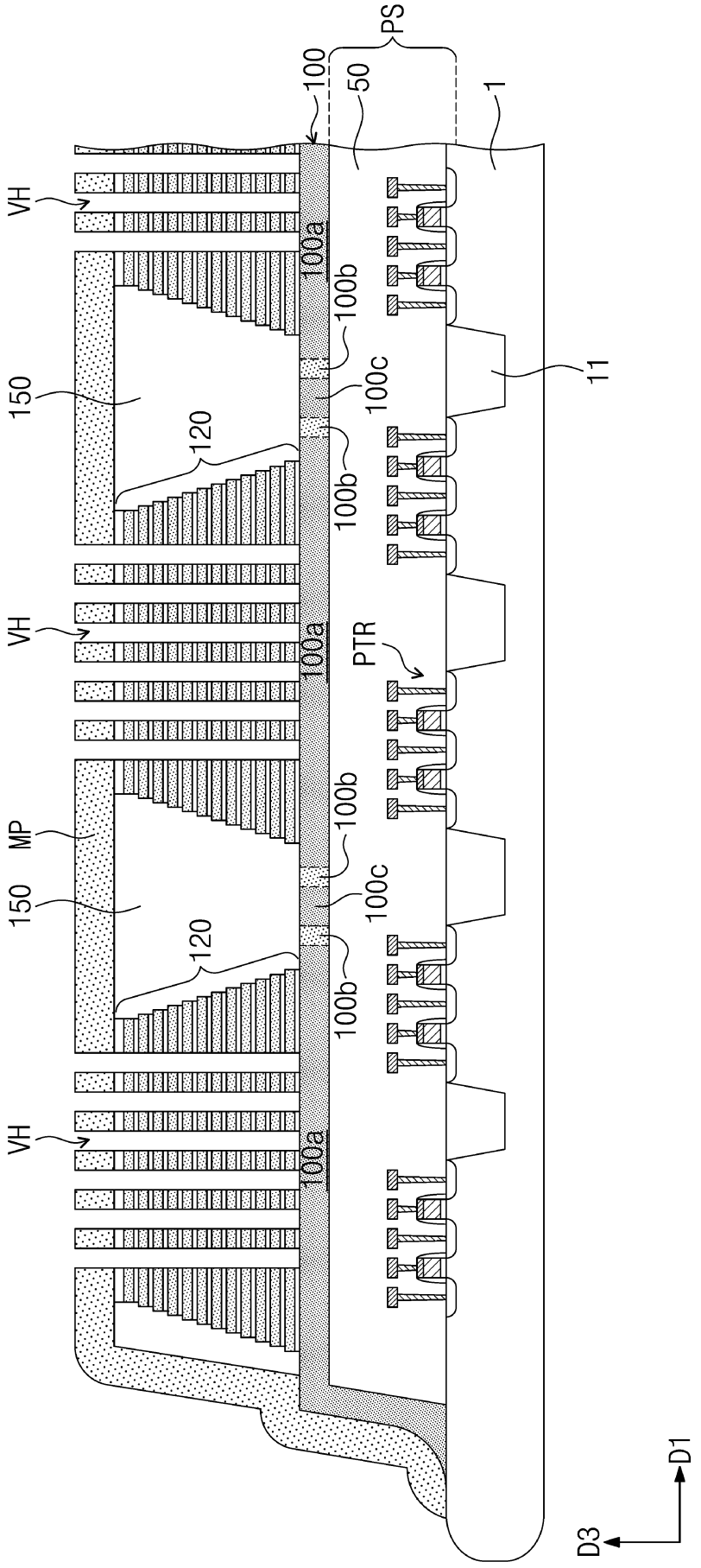

FIG. 26

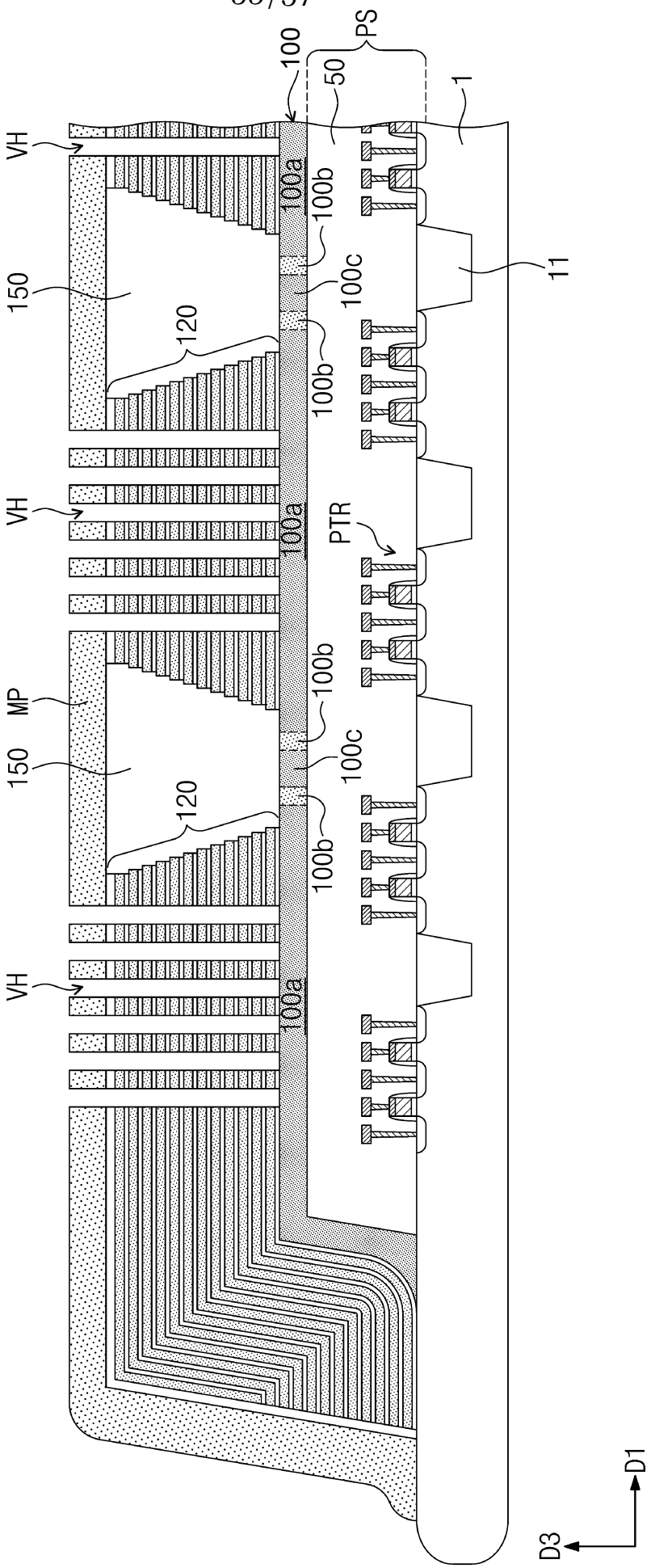

FIG. 27

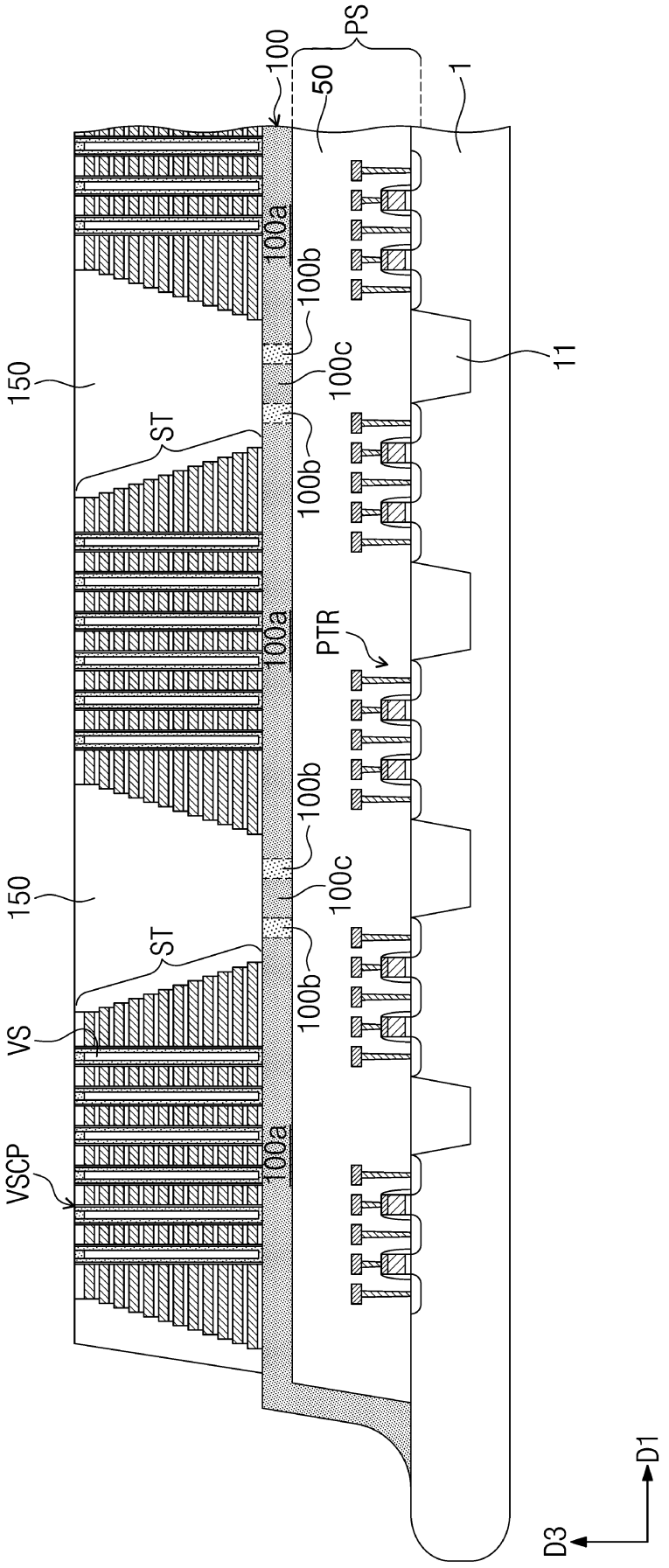
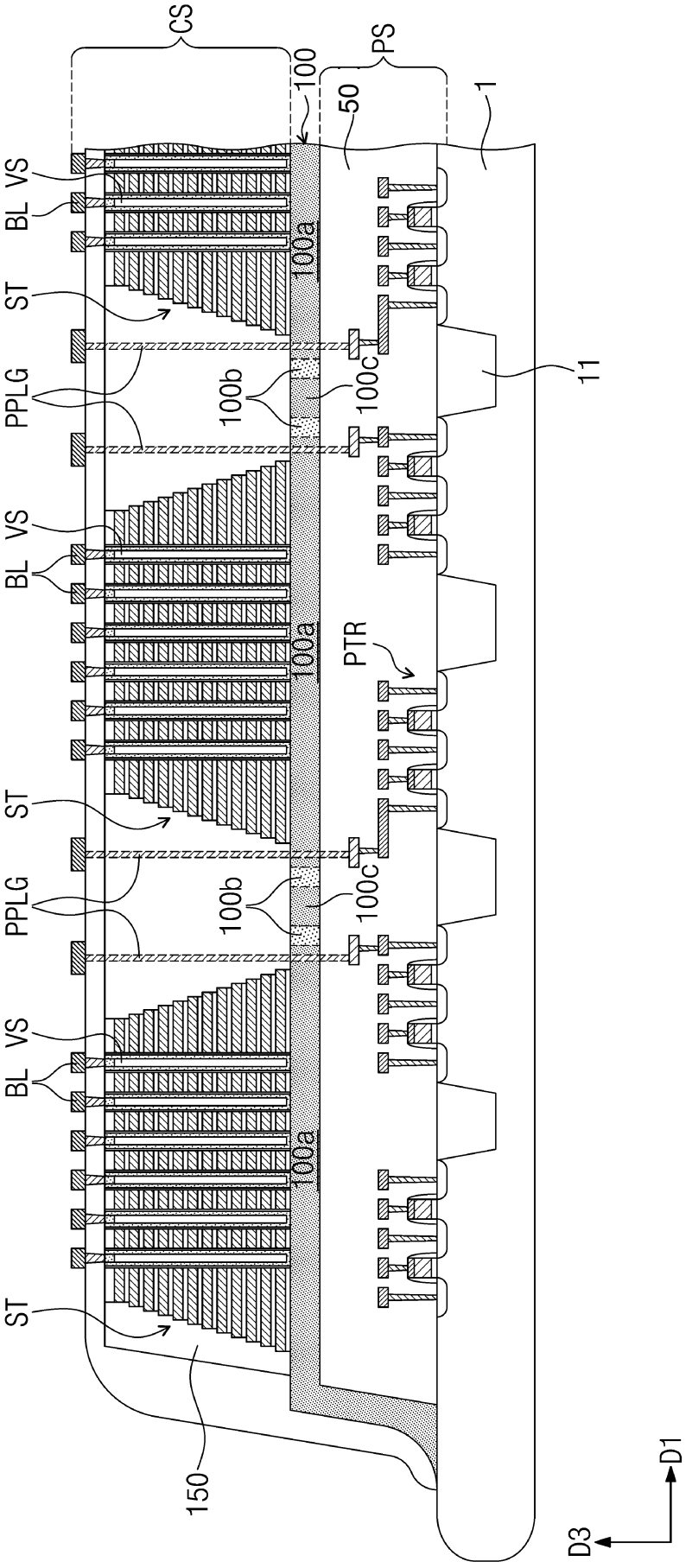
FIG. 28