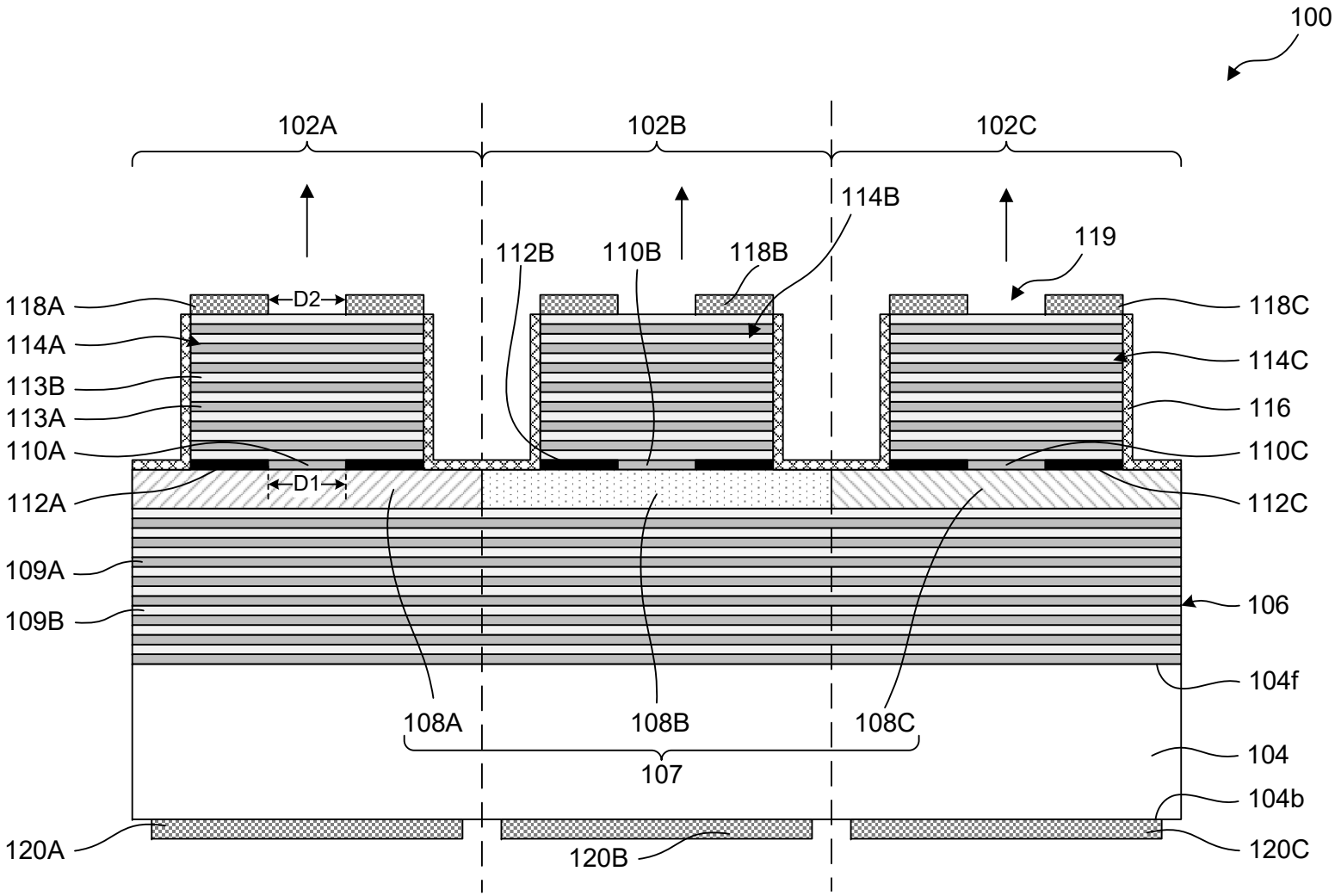
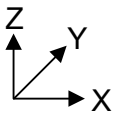

100
102A
102B
102C
114B
112B
110B
118B
119
118A
D2
118C
114A
114C
113B
116
113A
110A
110C
D1
112A
112C
109A
106
109B
104f
108A
108B
108C
107
104
104b
120A
120B
120C

Fig. 1


Z
Y
X

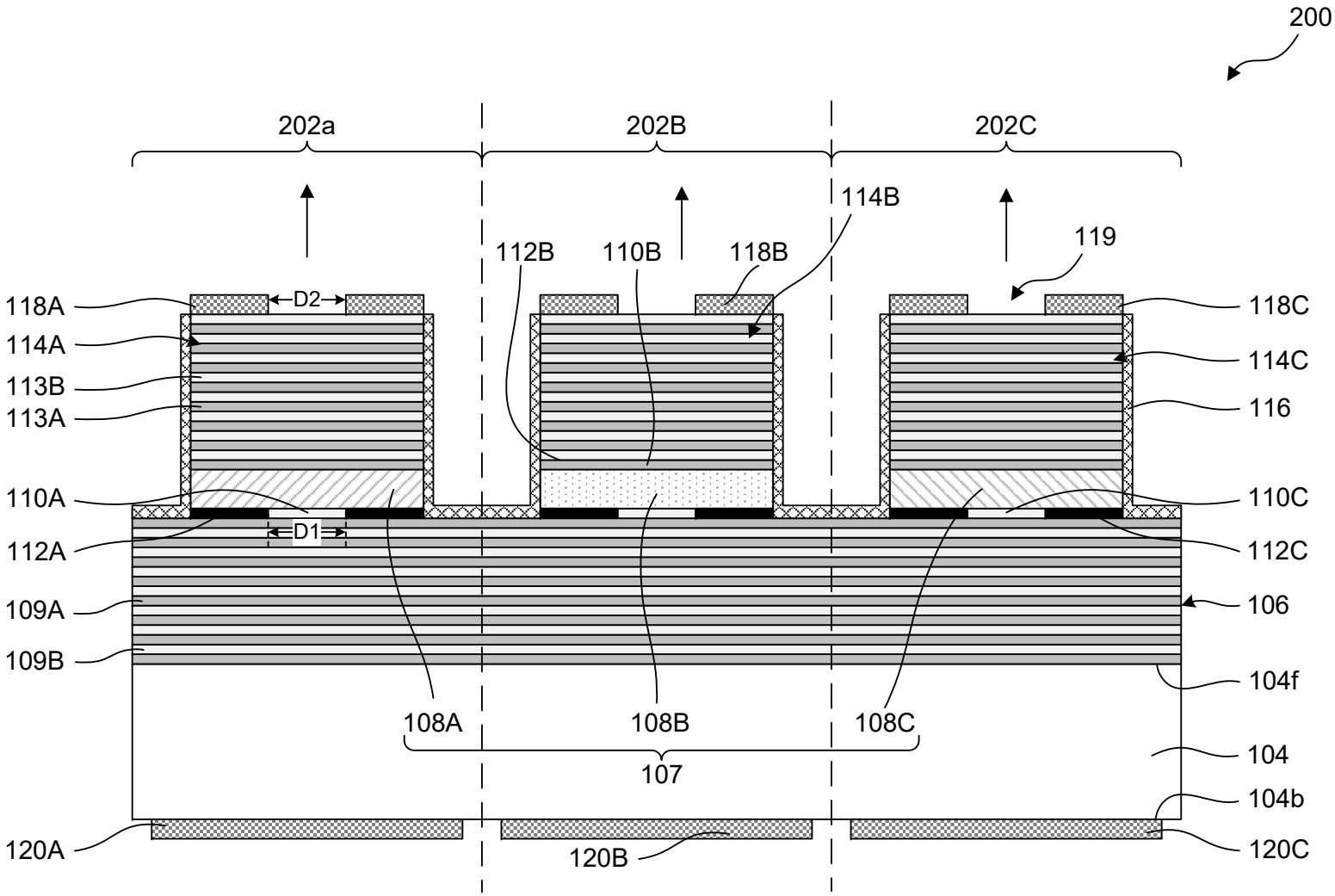
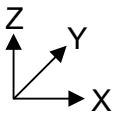

200
202a
202B
202C
114B
112B
110B
118B
119
118A
D2
118C
114A
114C
113B
116
113A
110A
110C
D1
112A
112C
109A
106
109B
104f
108A
108B
108C
107
104
104b
120A
120B
120C

Fig. 2


Z
Y
X

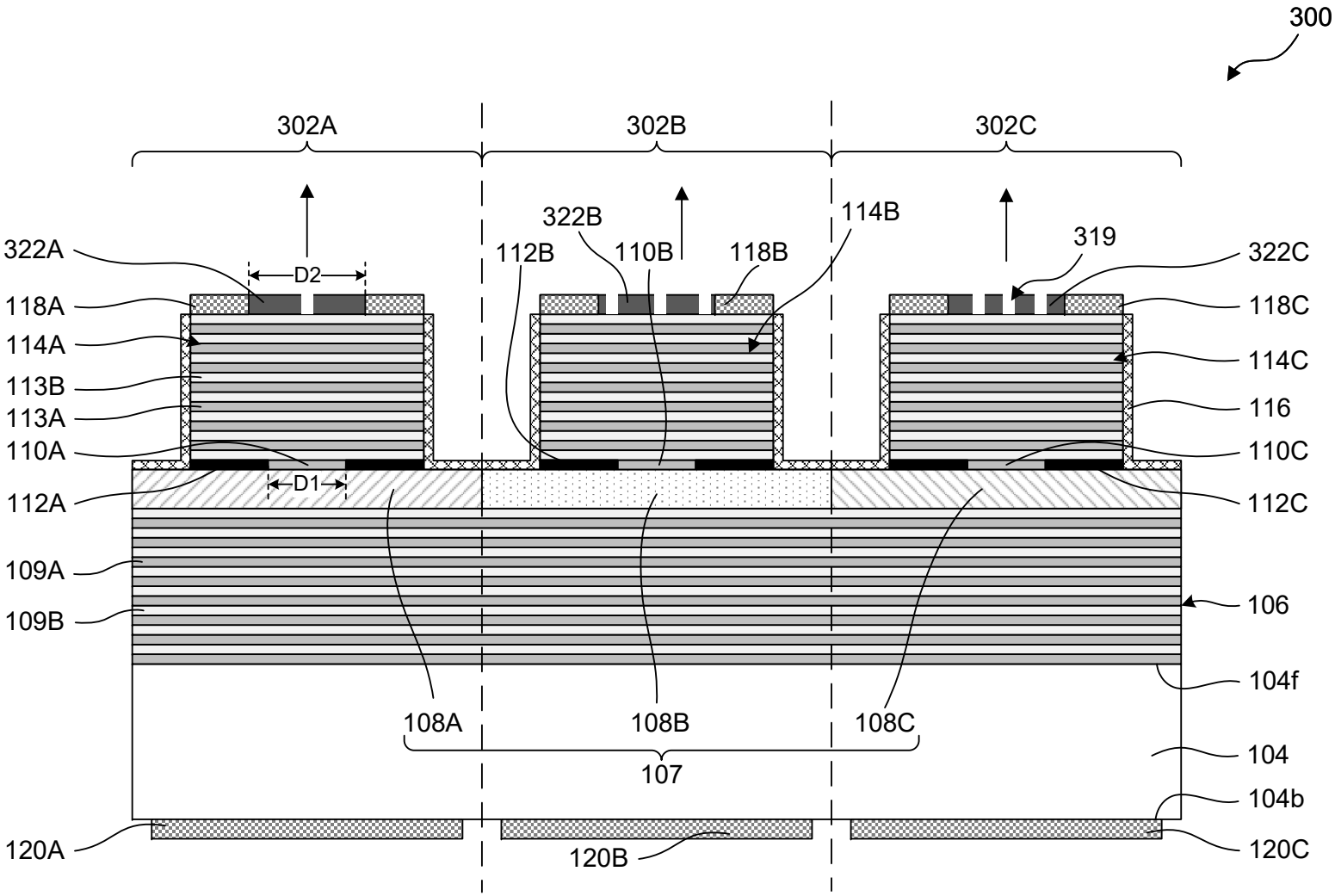

300
302A
302B
302C
322A
322B
114B
319
322C
112B
110B
118B
D2
118A
118C
114A
114C
113B
116
113A
110A
110C
D1
112A
112C
109A
106
109B
104f
108A
108B
108C
107
104
104b
120A
120B
120C
Z
Y
X

Fig. 3

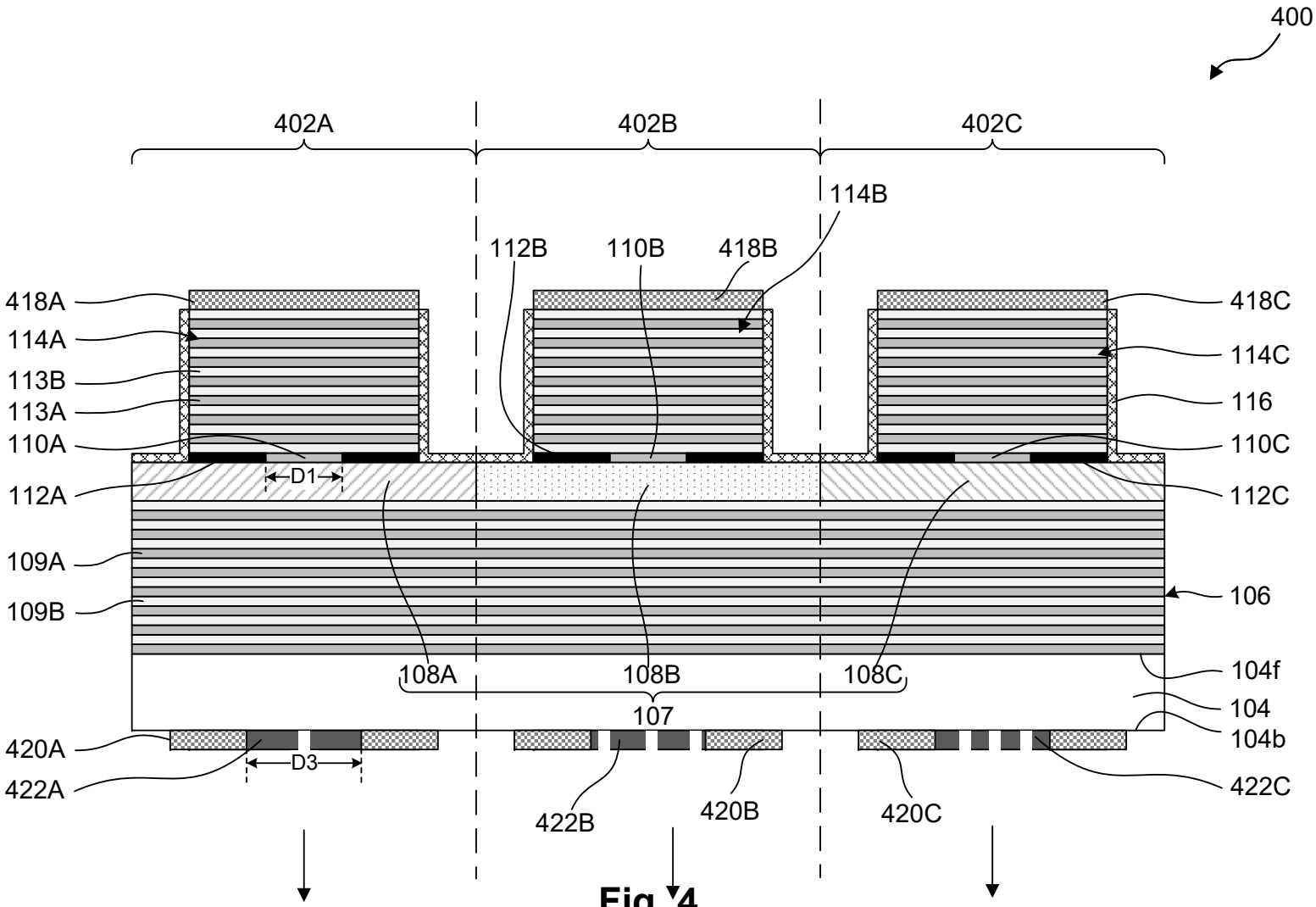

400
402A
402B
402C
114B
112B
110B
418B
418A
418C
114A
114C
113B
116
113A
110A
110C
D1
112A
112C
109A
106
109B
108A
108B
108C
104f
107
104
104b
420A
D3
422A
422C
422B
420B
420C
Z
Y
X

Fig. 4

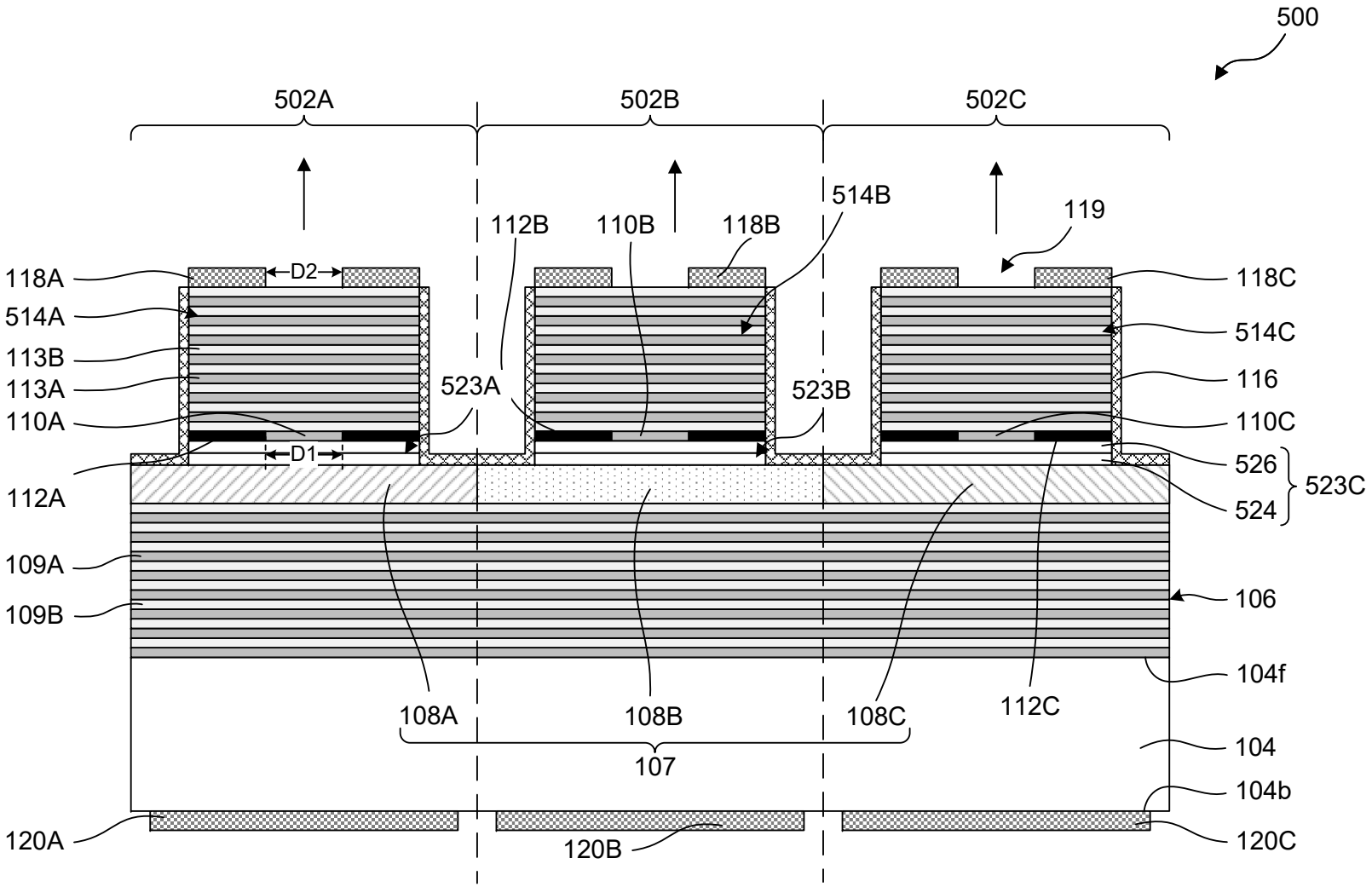

500
502A
502B
502C
514B
112B
110B
118B
119
118A
D2
118C
514A
514C
113B
113A
523A
523B
116
110A
110C
D1
526
523C
112A
524
109A
106
109B
104f
108A
108B
108C
112C
107
104
104b
120A
120B
120C
Z
Y
X

Fig. 5

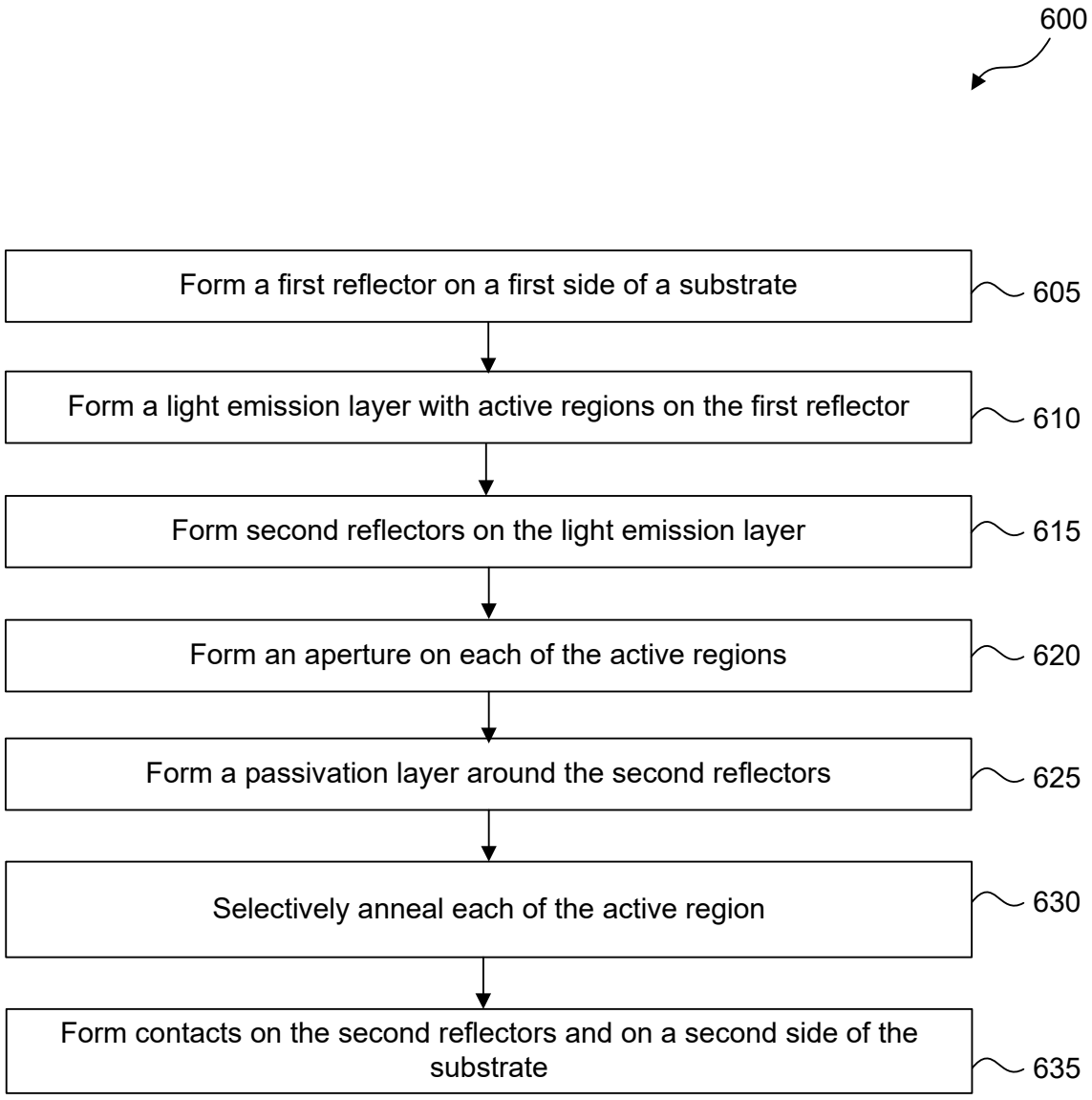

600
Form a first reflector on a first side of a substrate
605
Form a light emission layer with active regions on the first reflector
610
Form second reflectors on the light emission layer
615
Form an aperture on each of the active regions
620
Form a passivation layer around the second reflectors
625
Selectively anneal each of the active region
630
Form contacts on the second reflectors and on a second side of the substrate
635

Fig. 6

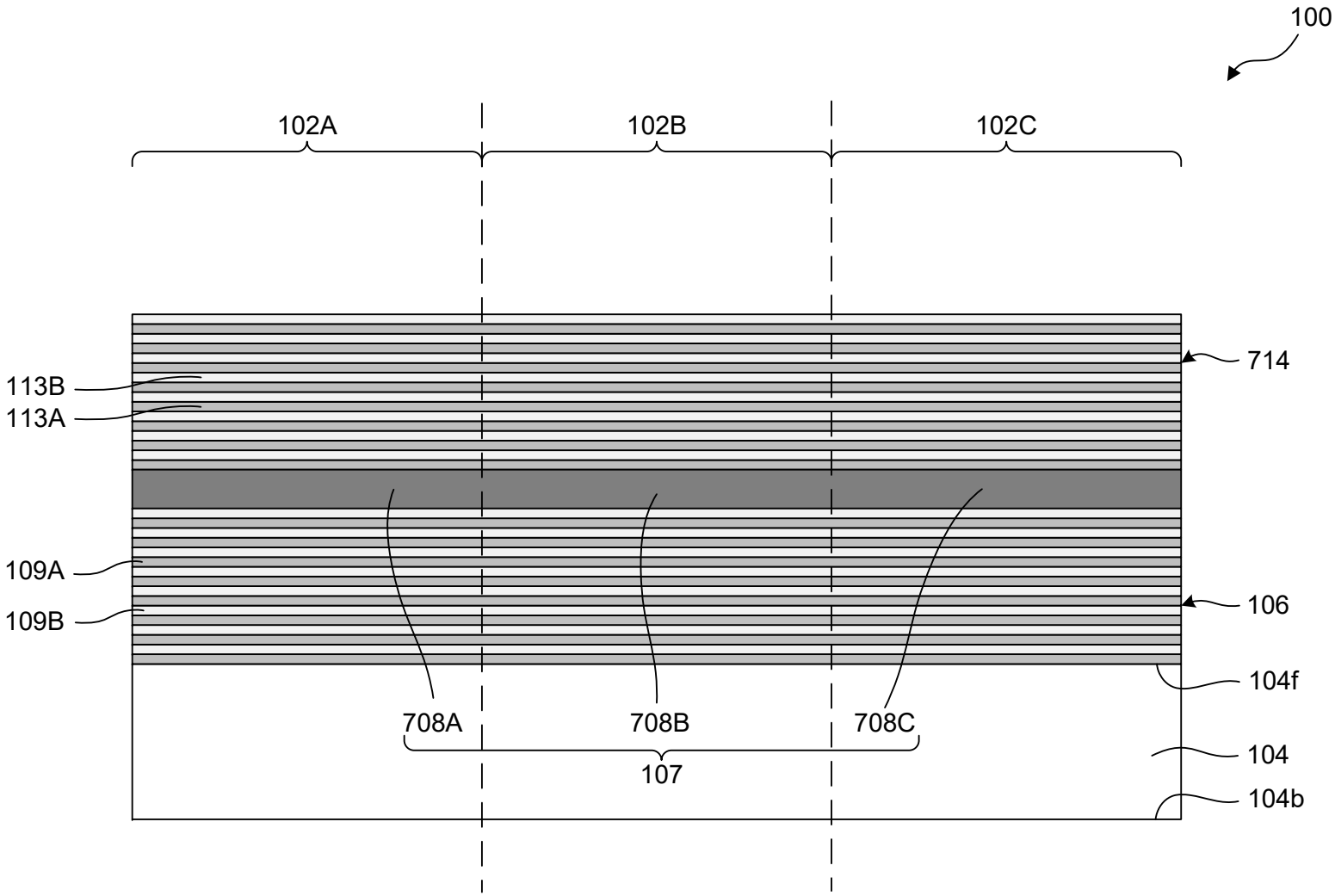
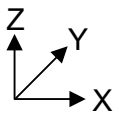

100
102A
102B
102C
714
113B
113A
109A
109B
106
104f
708A
708B
708C
107
104
104b

Fig. 7


Z
Y
X

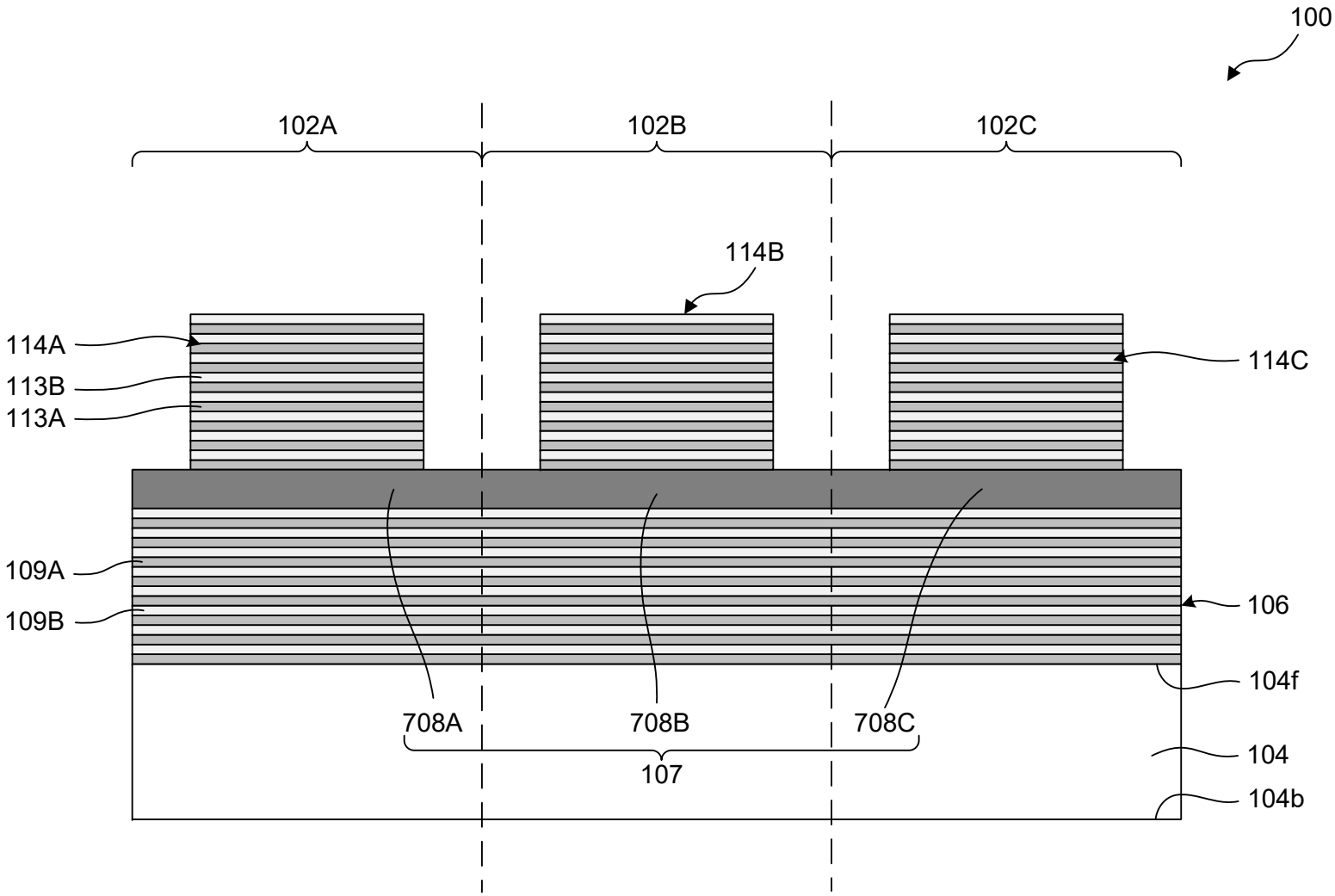
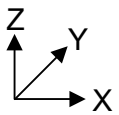

100
102A
102B
102C
114B
114A
113B
113A
114C
109A
109B
106
104f
708A
708B
708C
107
104
104b

Fig. 8


Z
Y
X

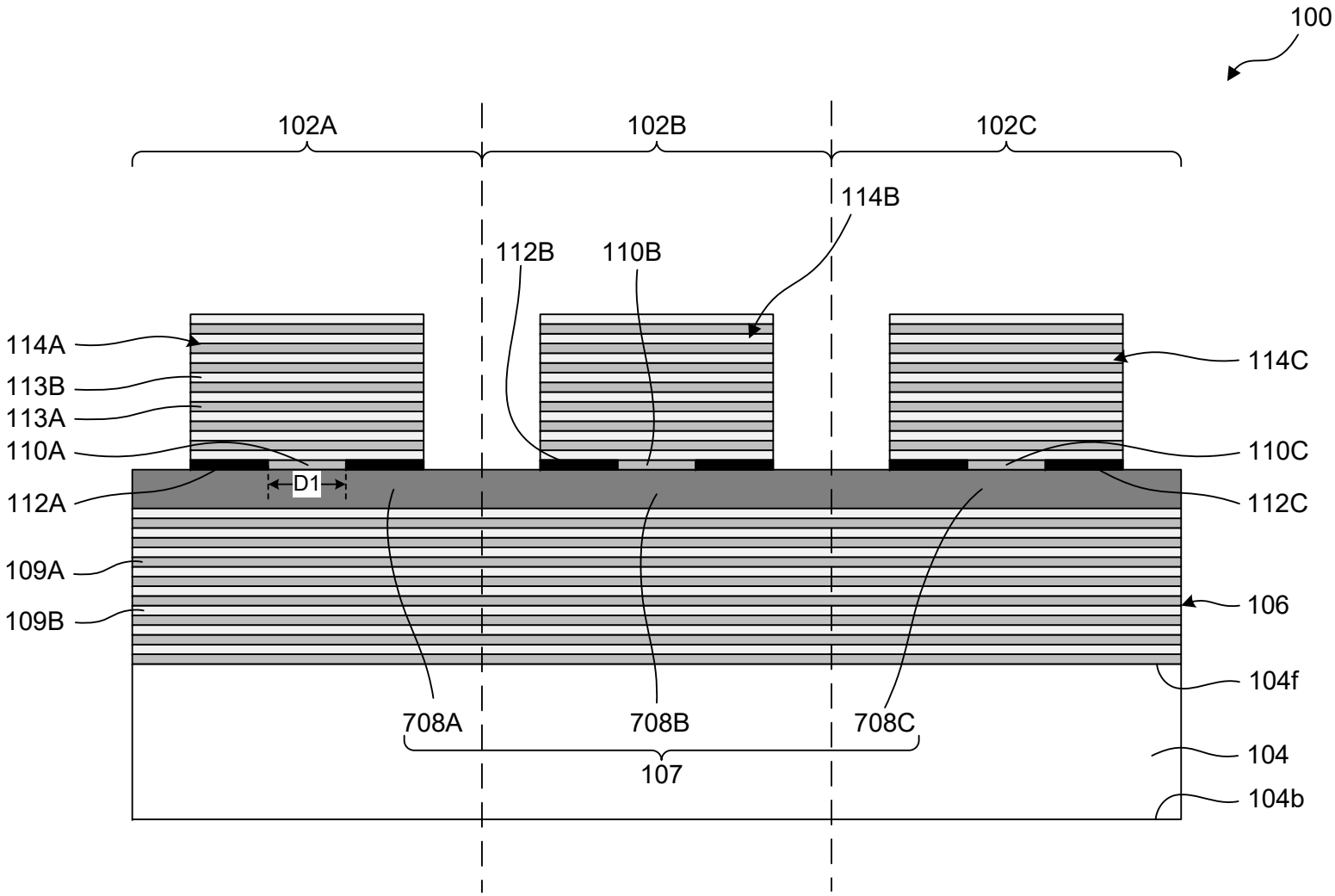
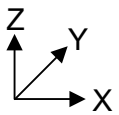

100
102A
102B
102C
114B
112B
110B
114A
113B
113A
110A
D1
112A
114C
110C
112C
109A
109B
106
104f
708A
708B
708C
107
104
104b

Fig. 9


Z
Y
X

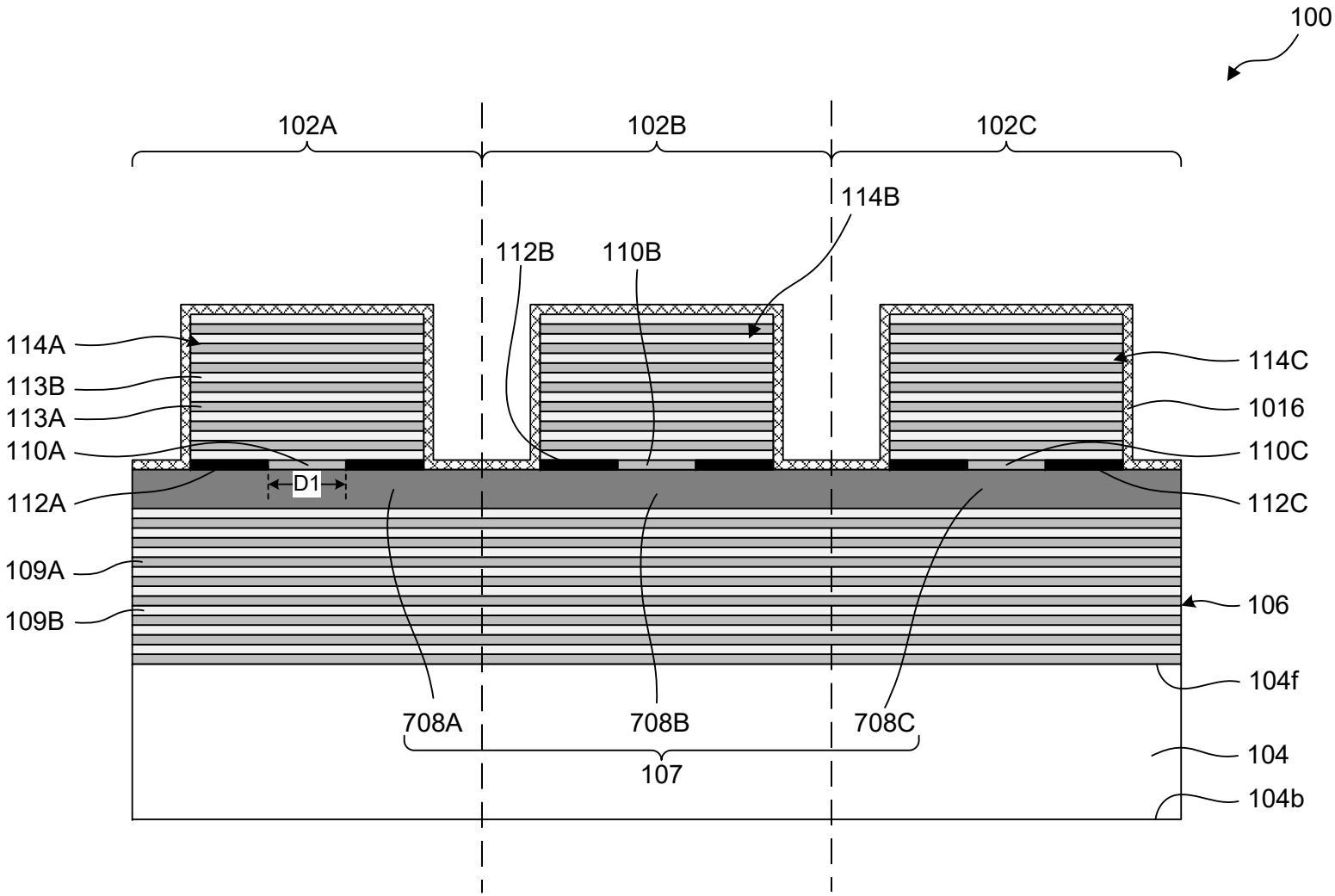
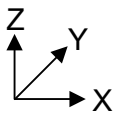

100
102A
102B
102C
114B
112B
110B
114A
113B
113A
110A
D1
112A
114C
1016
110C
112C
109A
109B
106
104f
708A
708B
708C
107
104
104b

Fig. 10


Z
Y
X

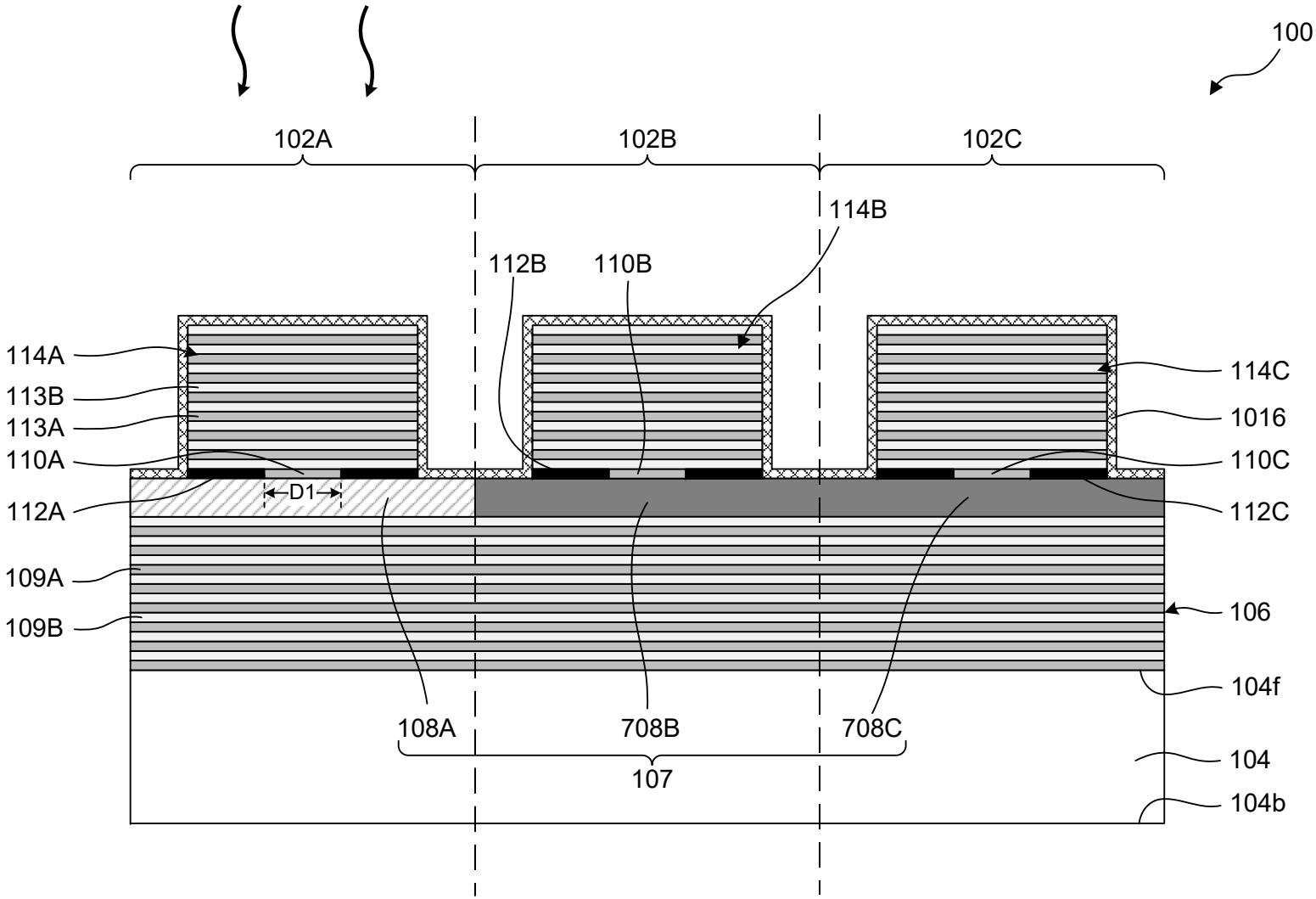
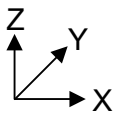

100
102A
102B
102C
114B
112B
110B
114A
113B
113A
110A
112A
D1
114C
1016
110C
112C
109A
109B
106
104f
108A
708B
708C
107
104
104b

Fig. 11


Z
Y
X

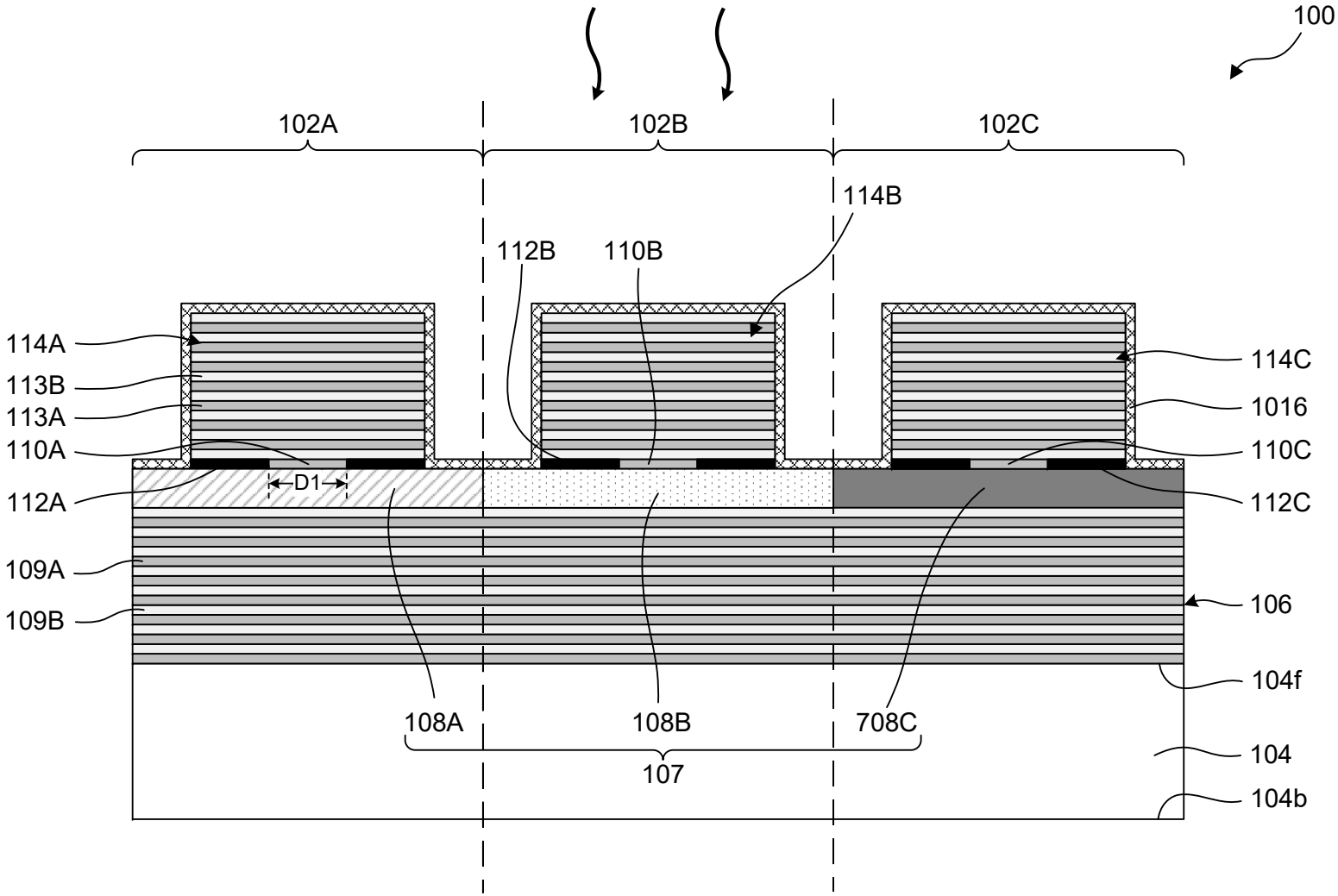
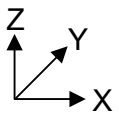

100
102A
102B
102C
114B
112B
110B
114A
113B
113A
110A
112A
D1
114C
1016
110C
112C
109A
109B
106
104f
108A
108B
708C
107
104
104b

Fig. 12


Z
Y
X

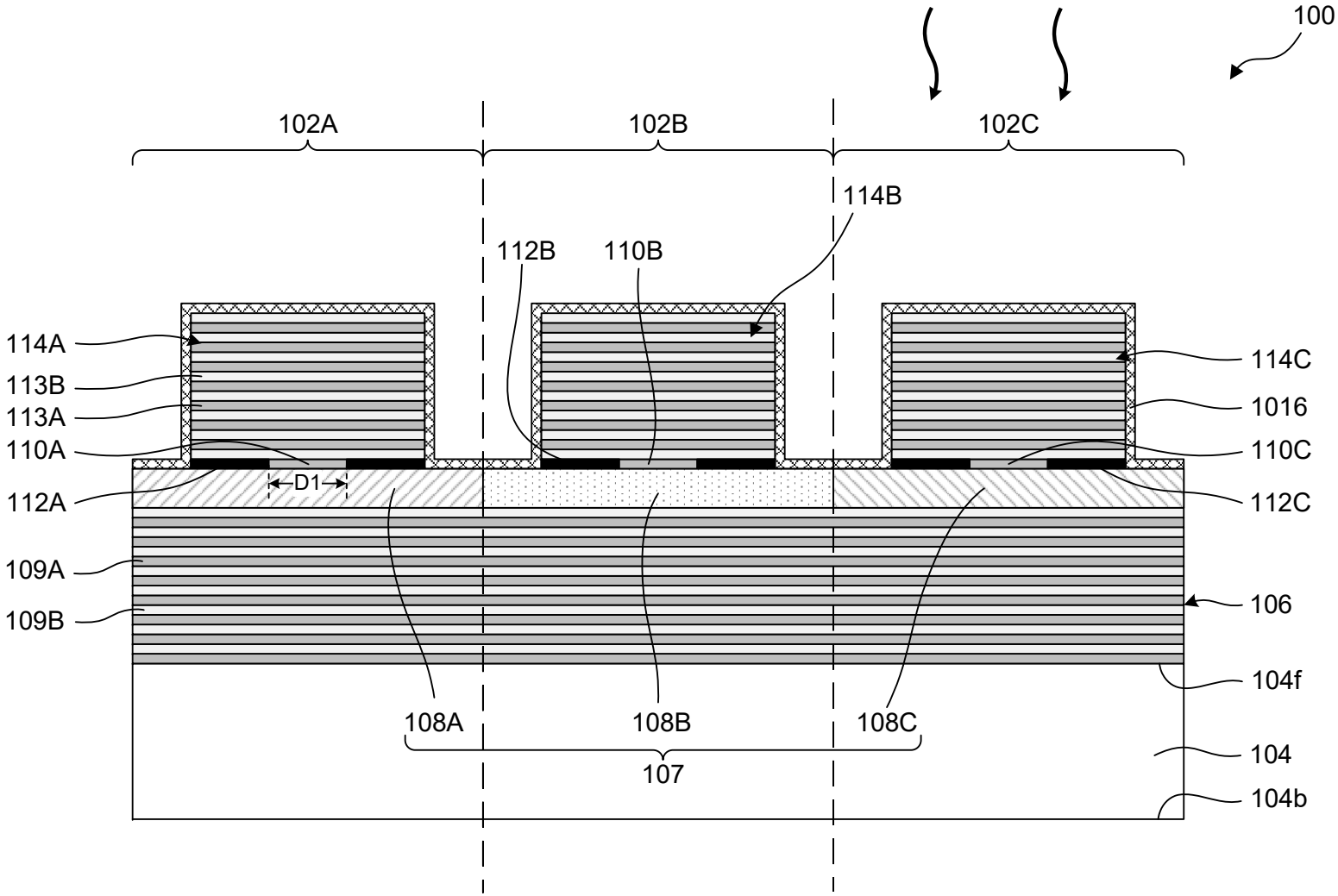
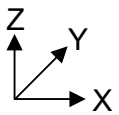

100
102A
102B
102C
114B
112B
110B
114A
113B
113A
110A
112A
D1
114C
1016
110C
112C
109A
109B
106
104f
108A
108B
108C
107
104
104b

Fig.13


Z
Y
X

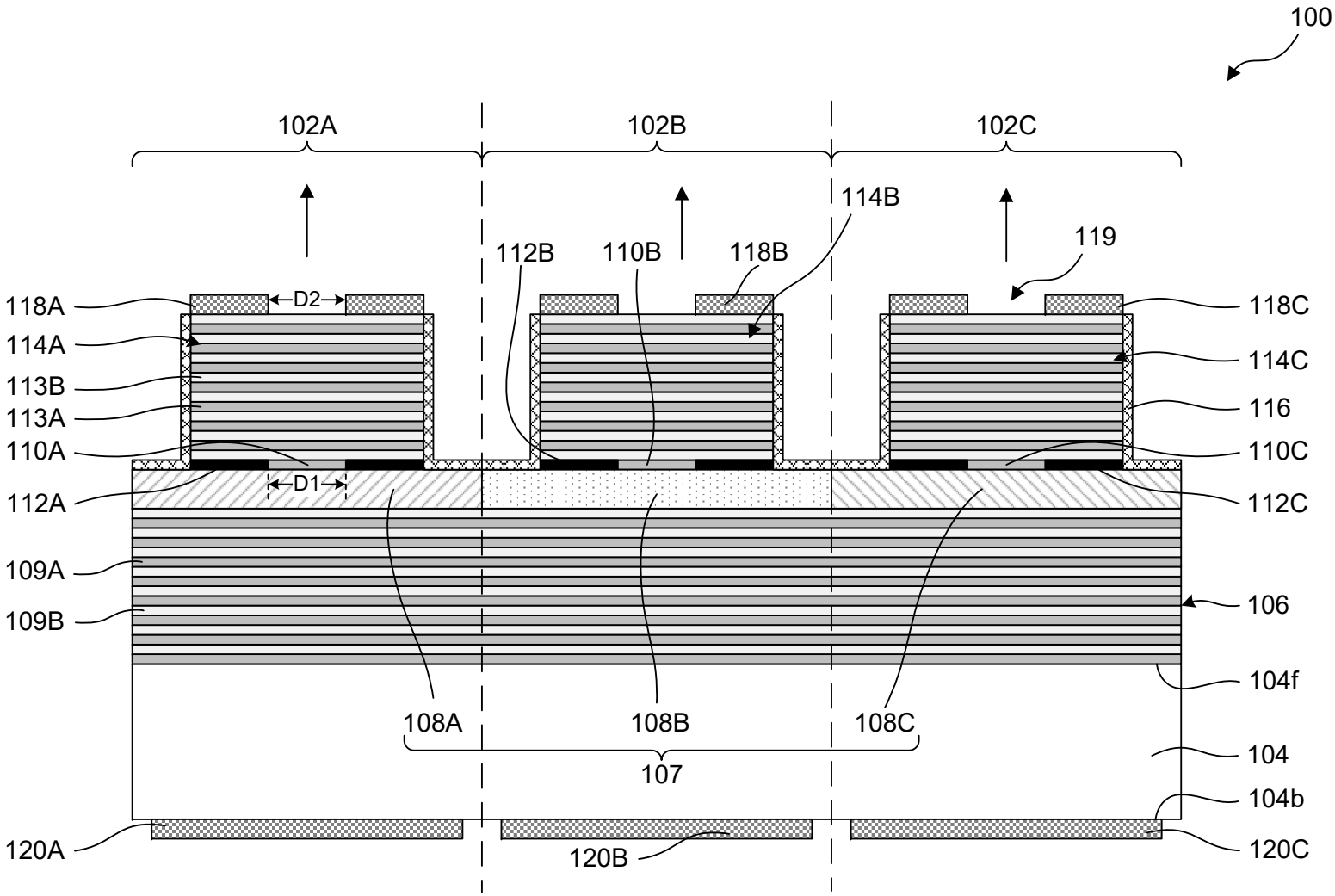
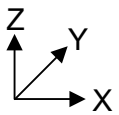

100
102A
102B
102C
114B
112B
110B
118B
119
118A
D2
118C
114A
114C
113B
116
113A
110A
110C
D1
112A
112C
109A
106
109B
104f
108A
108B
108C
107
104
104b
120A
120B
120C

Fig. 14


Z
Y
X

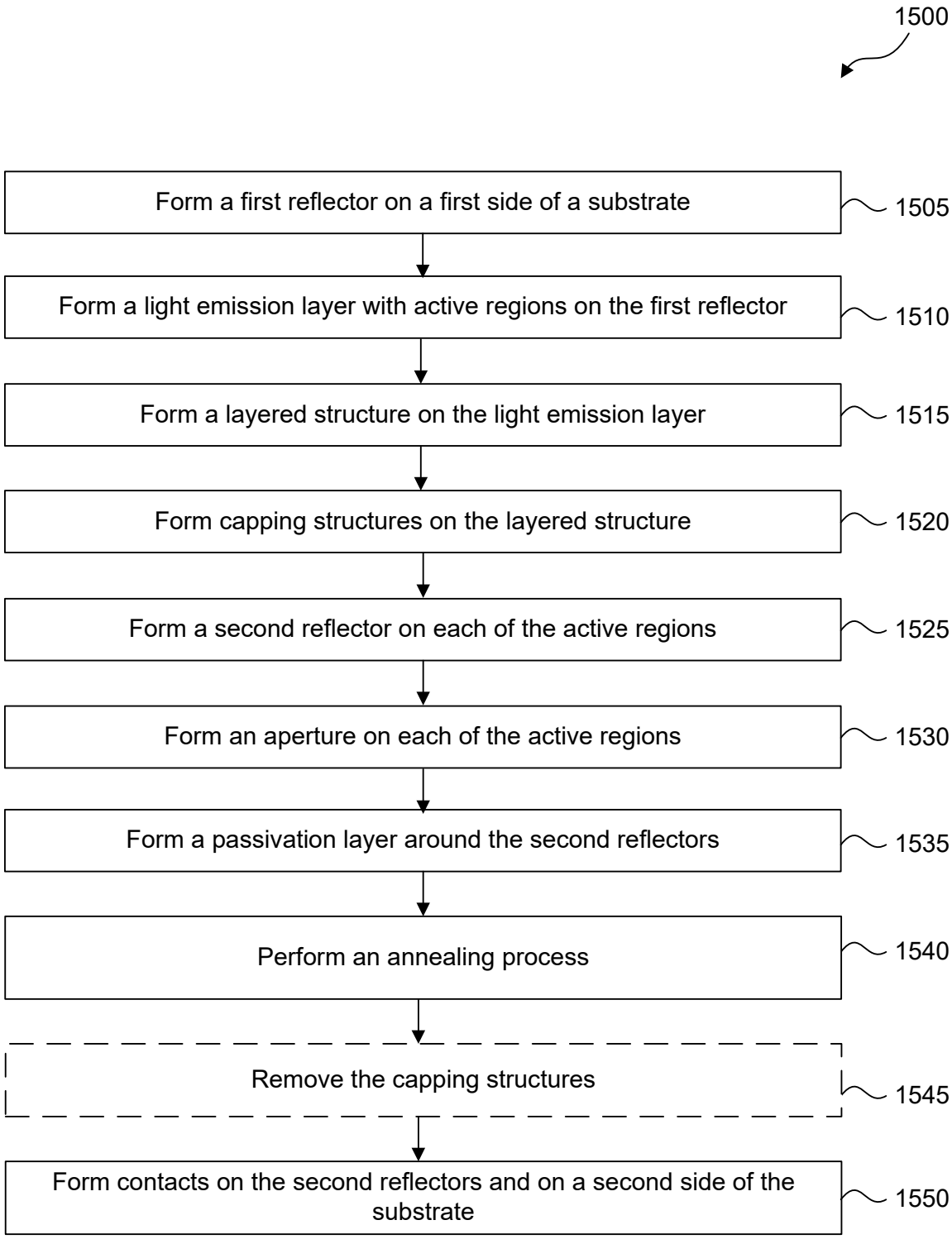

1500
Form a first reflector on a first side of a substrate
1505
Form a light emission layer with active regions on the first reflector
1510
Form a layered structure on the light emission layer
1515
Form capping structures on the layered structure
1520
Form a second reflector on each of the active regions
1525
Form an aperture on each of the active regions
1530
Form a passivation layer around the second reflectors
1535
Perform an annealing process
1540
Remove the capping structures
1545
Form contacts on the second reflectors and on a second side of the substrate
1550

Fig. 15

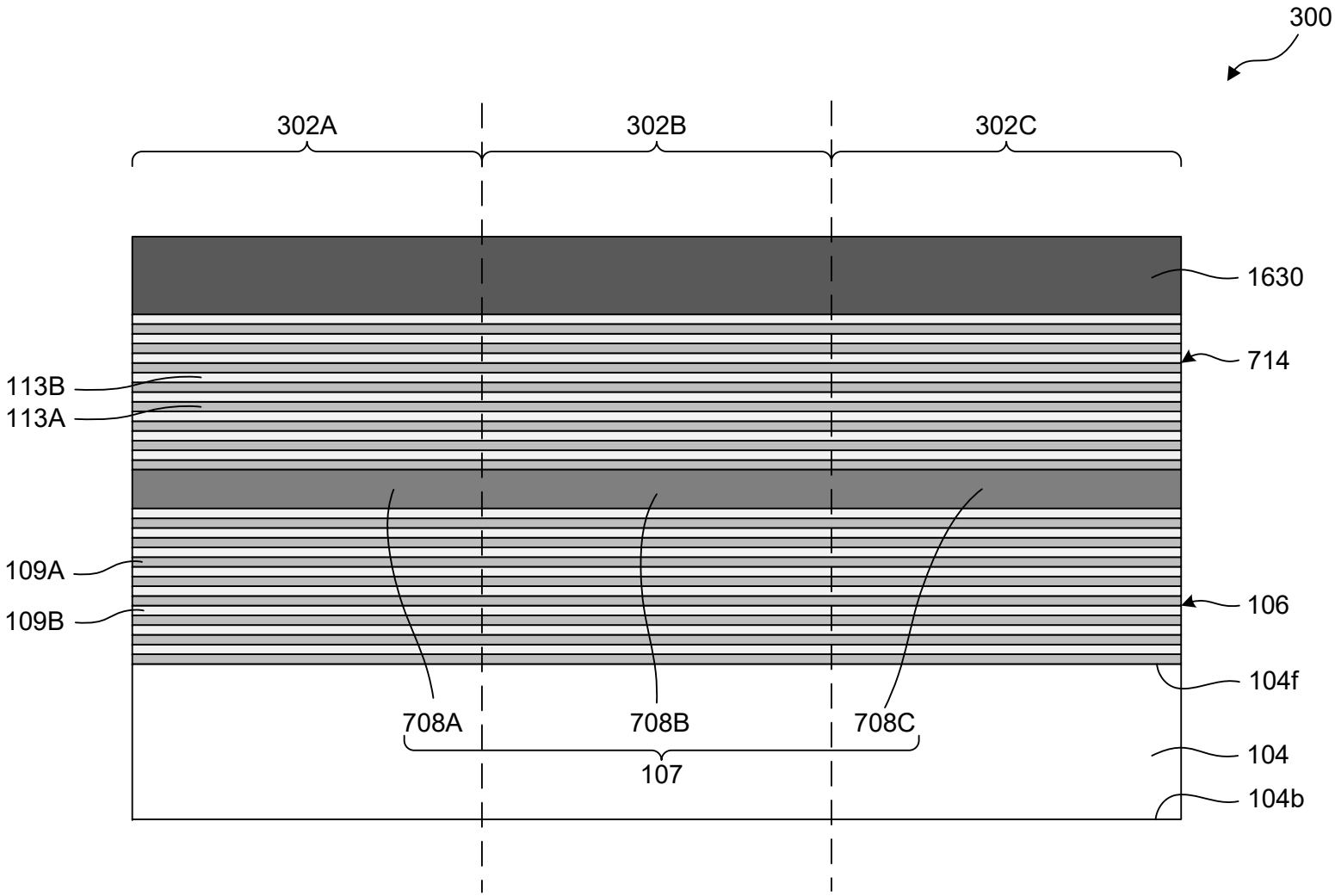
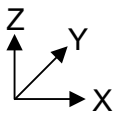

300
302A
302B
302C
1630
714
113B
113A
109A
109B
106
104f
708A
708B
708C
107
104
104b

Fig. 16


Z
Y
X

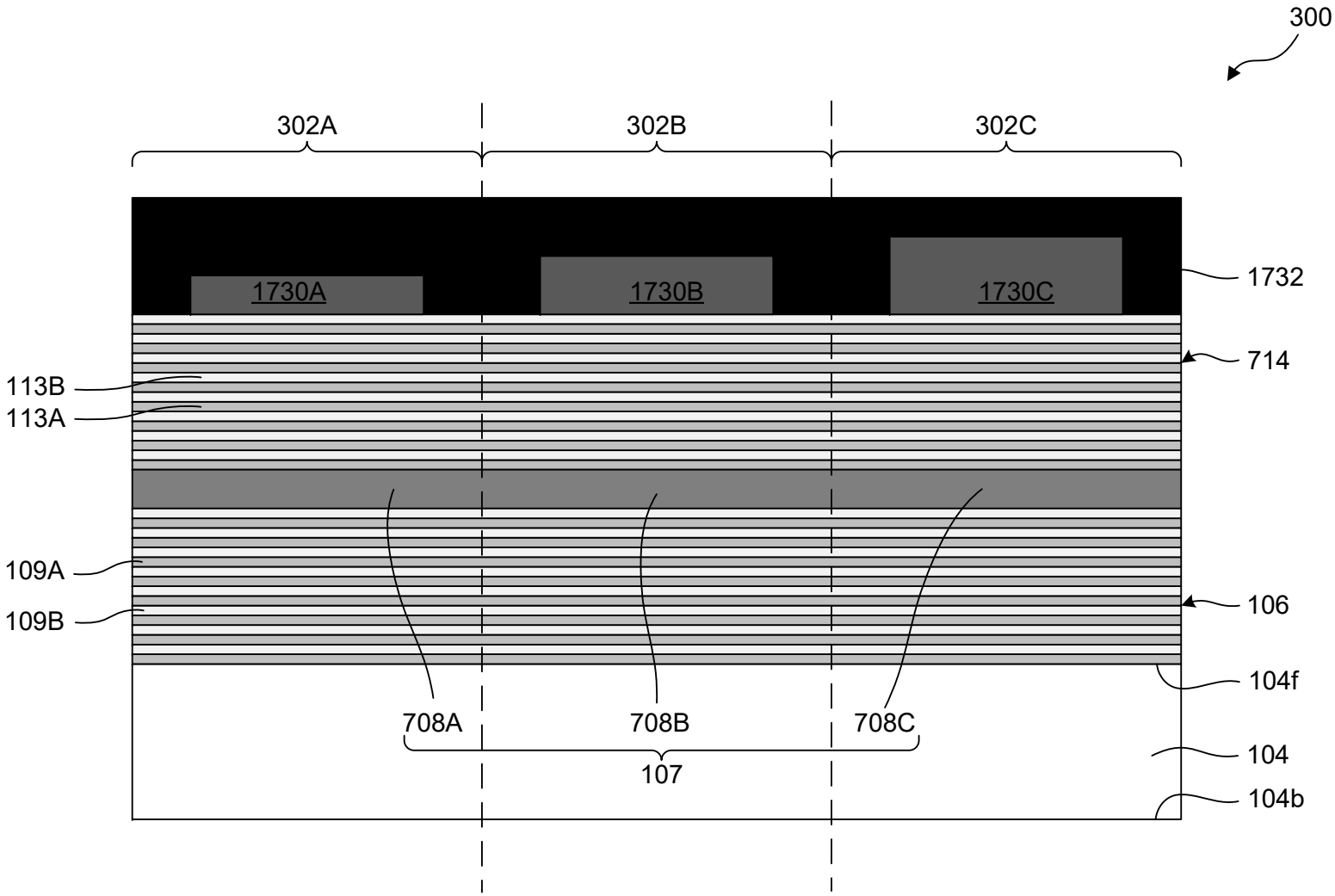
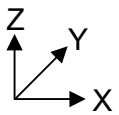

300
302A
302B
302C
1730A
1730B
1730C
1732
714
113B
113A
109A
109B
106
104f
708A
708B
708C
107
104
104b

Fig. 17


Z
Y
X

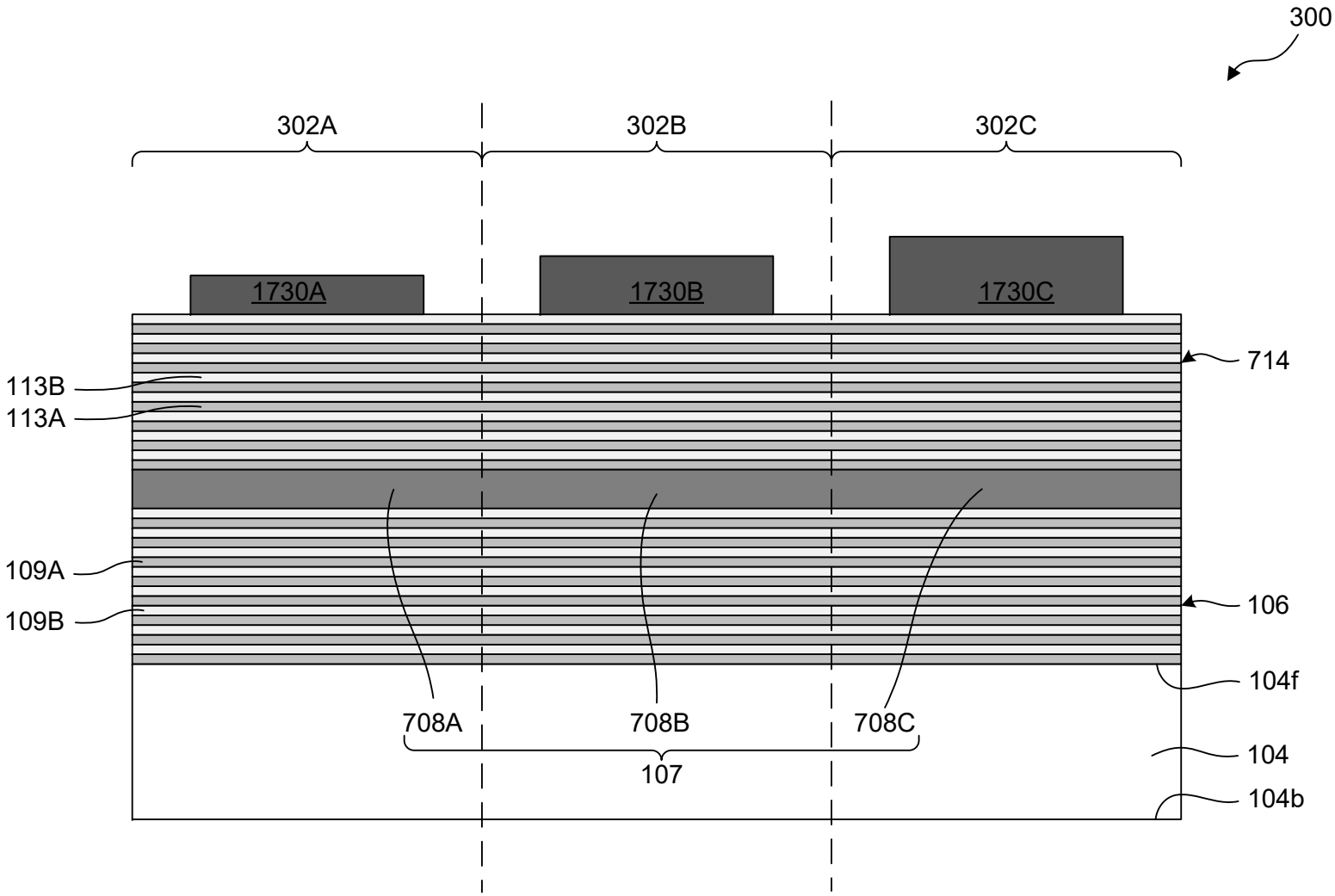
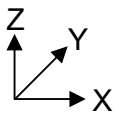

300
302A
302B
302C
1730A
1730B
1730C
714
113B
113A
109A
109B
106
104f
708A
708B
708C
107
104
104b

Fig. 18


Z
Y
X

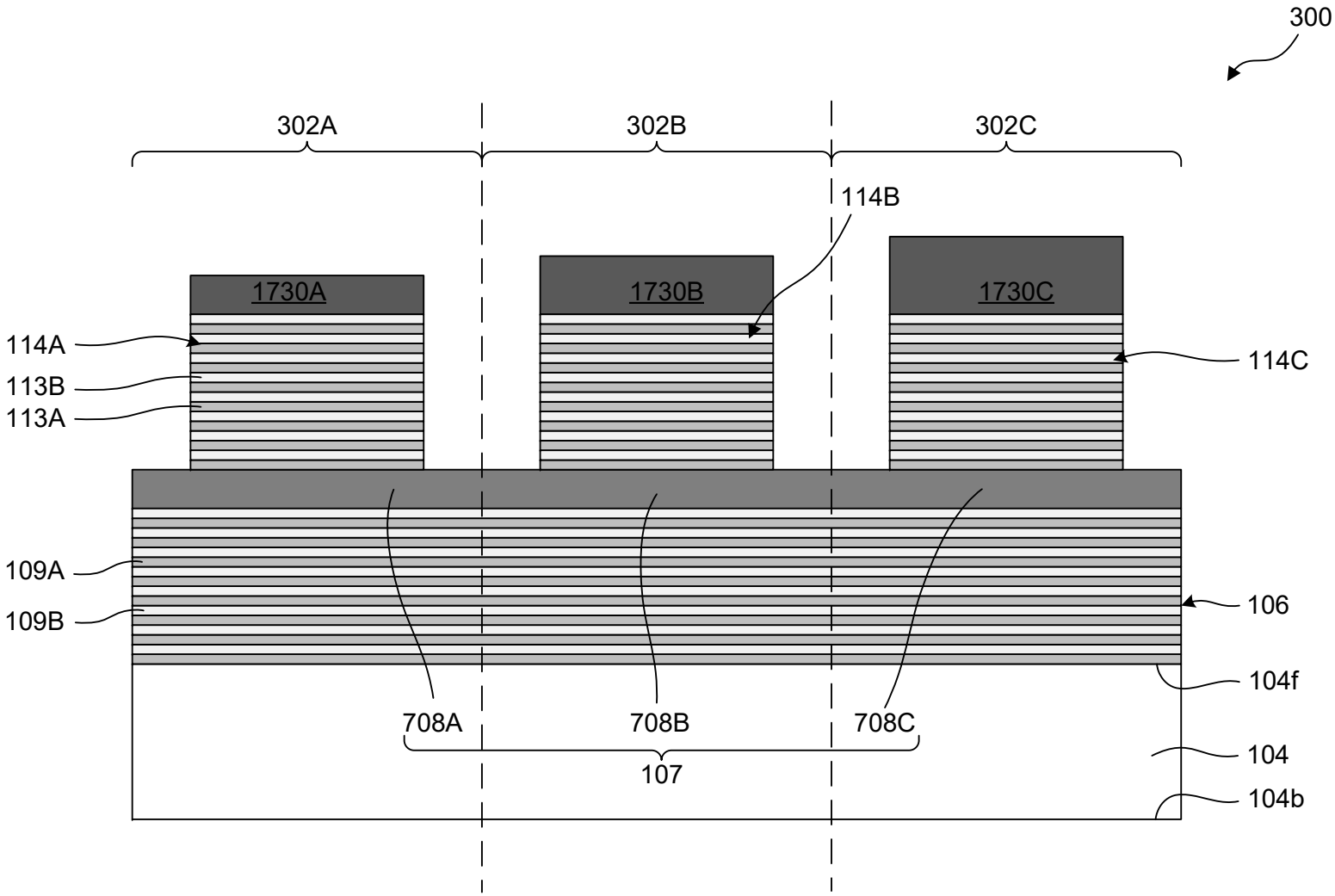
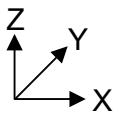

300
302A
302B
302C
114B
1730A
1730B
1730C
114A
113B
113A
114C
109A
109B
106
104f
708A
708B
708C
107
104
104b

Fig. 19


Z
Y
X

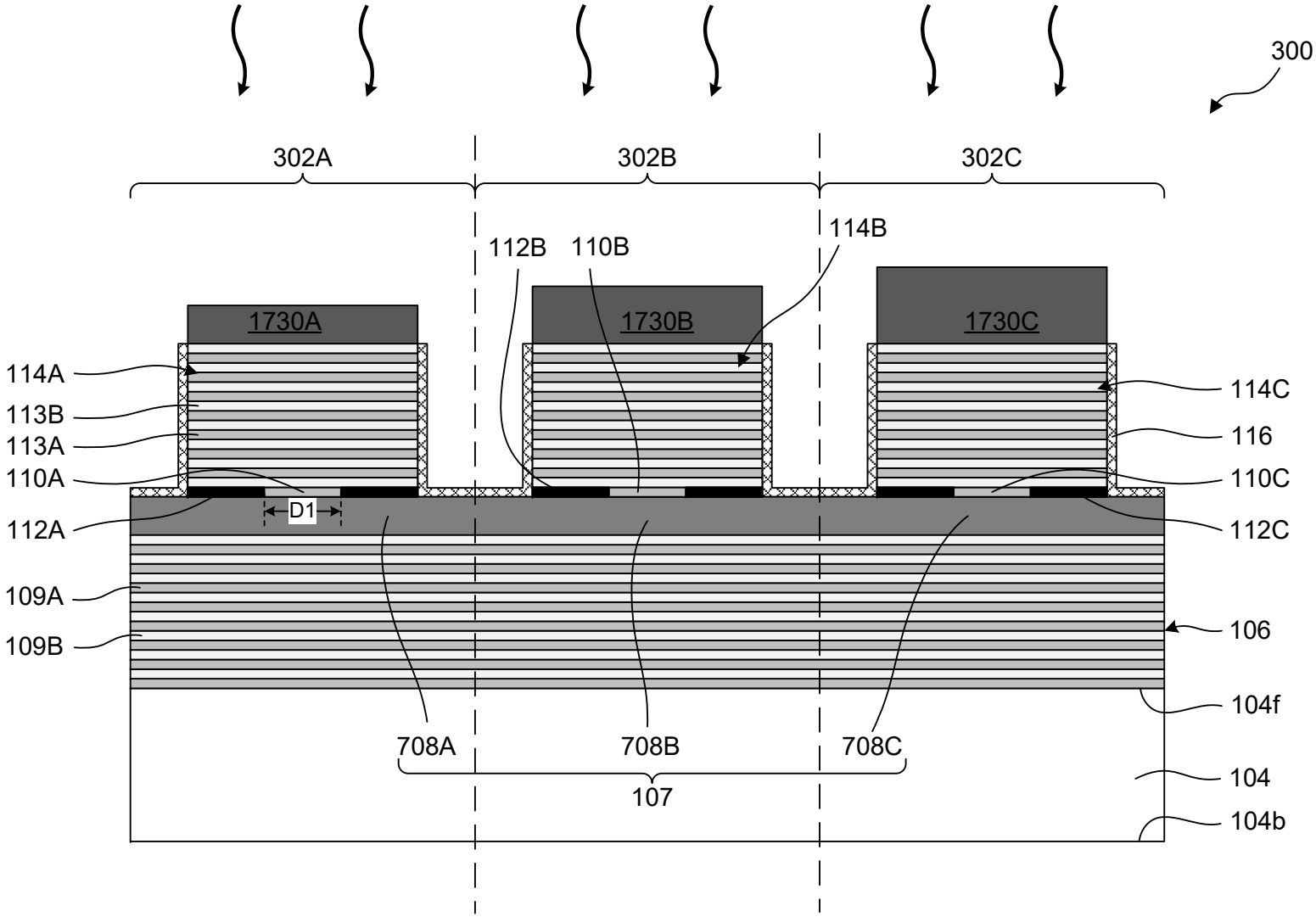
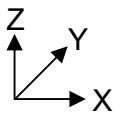

300
302A
302B
302C
112B
110B
114B
1730A
1730B
1730C
114A
113B
113A
110A
D1
112A
109A
109B
114C
116
110C
112C
106
104f
708A
708B
708C
107
104
104b

Fig. 20


Z
Y
X

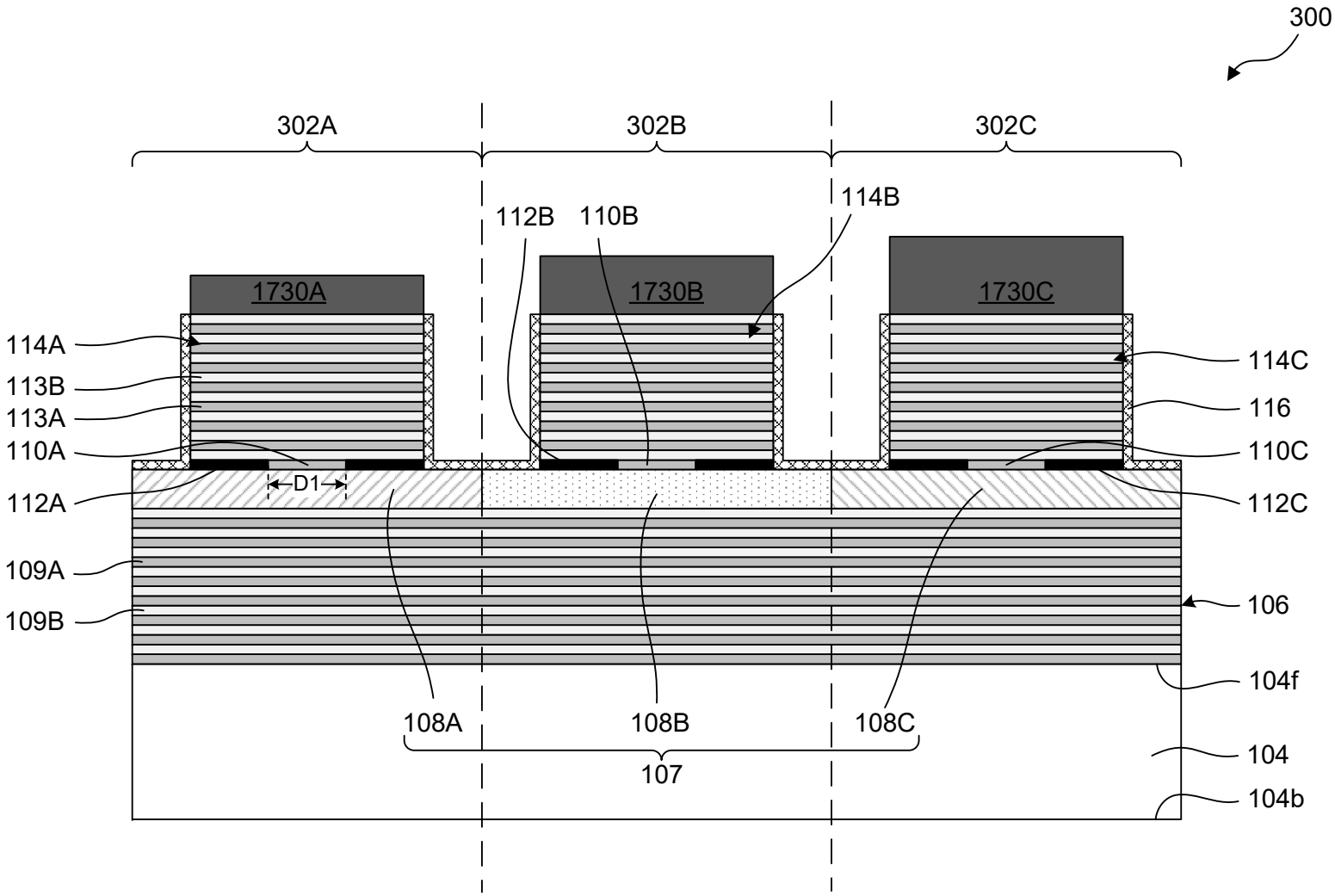
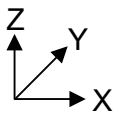

300
302A
302B
302C
112B
110B
114B
1730A
1730B
1730C
114A
113B
113A
110A
112A
D1
114C
116
110C
112C
109A
109B
106
104f
108A
108B
108C
107
104
104b

Fig. 21


Z
Y
X

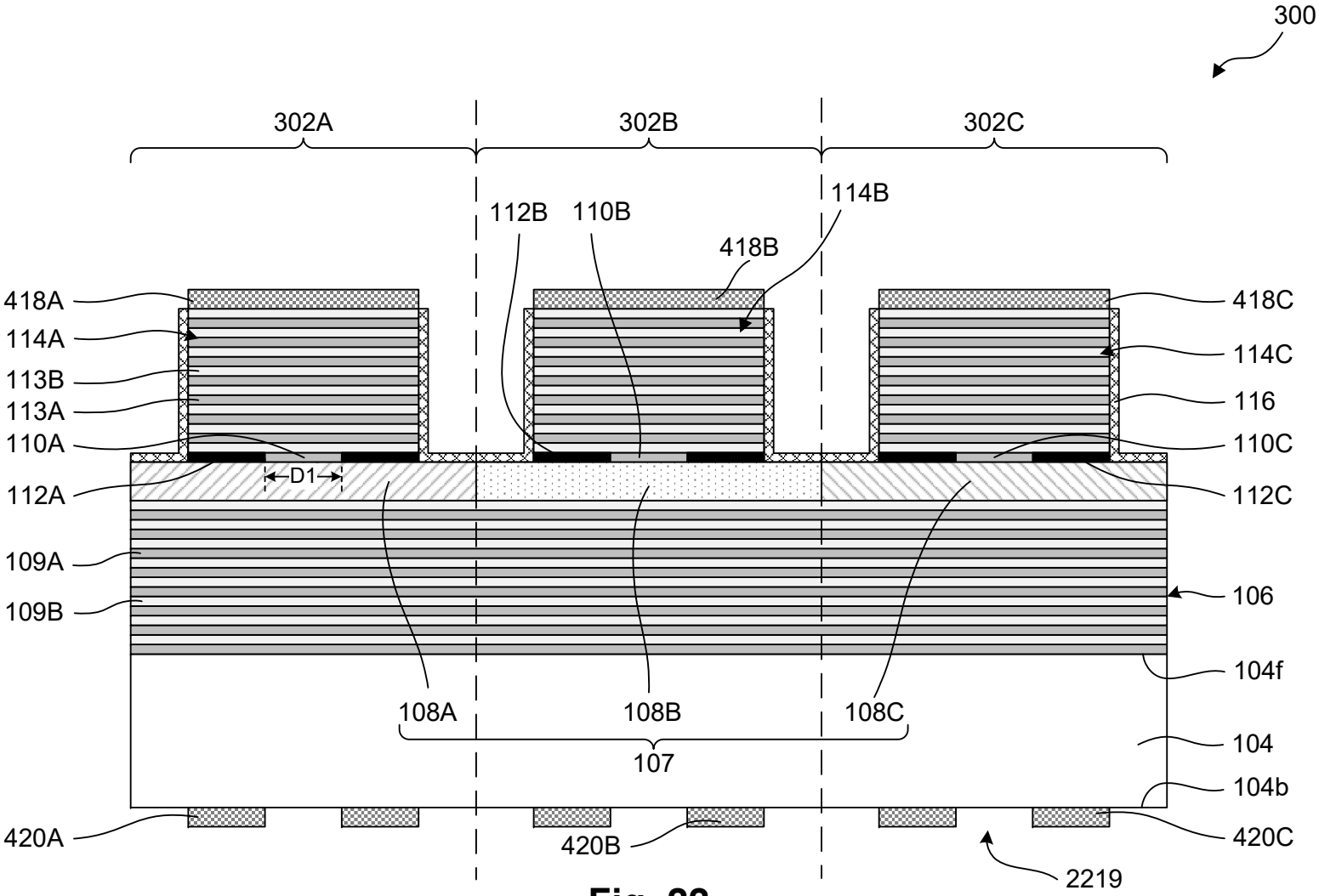
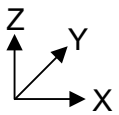

300
302A
302B
302C
112B
110B
114B
418B
418A
418C
114A
114C
113B
116
113A
110A
110C
D1
112A
112C
109A
106
109B
104f
108A
108B
108C
107
104
104b
420A
420B
420C
2219

Fig. 22


Z
Y
X

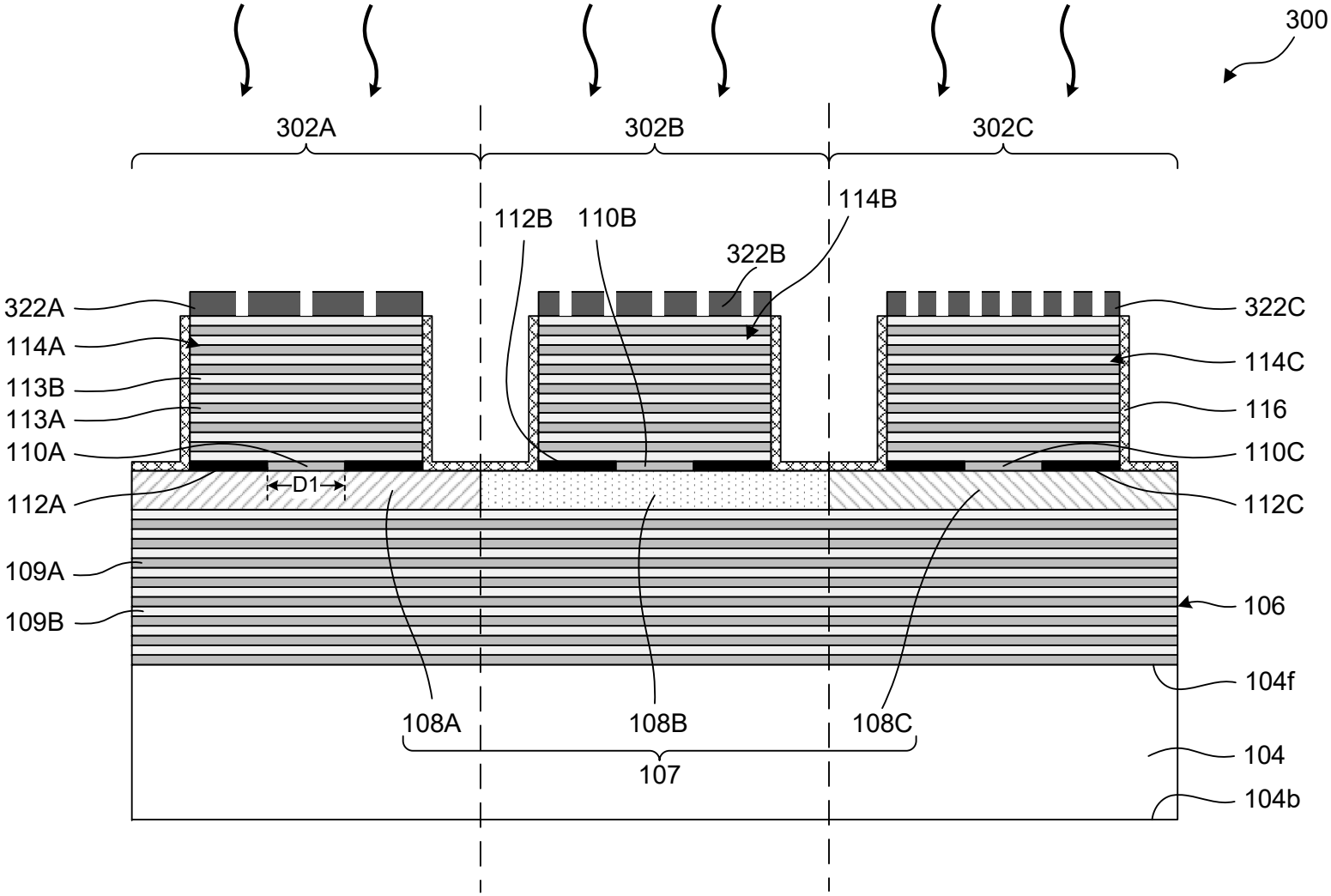
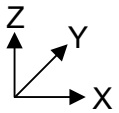

300
302A
302B
302C
112B
110B
114B
322B
322A
322C
114A
114C
113B
116
113A
110A
110C
D1
112A
112C
109A
106
109B
104f
108A
108B
108C
107
104
104b

Fig. 23


Z
Y
X

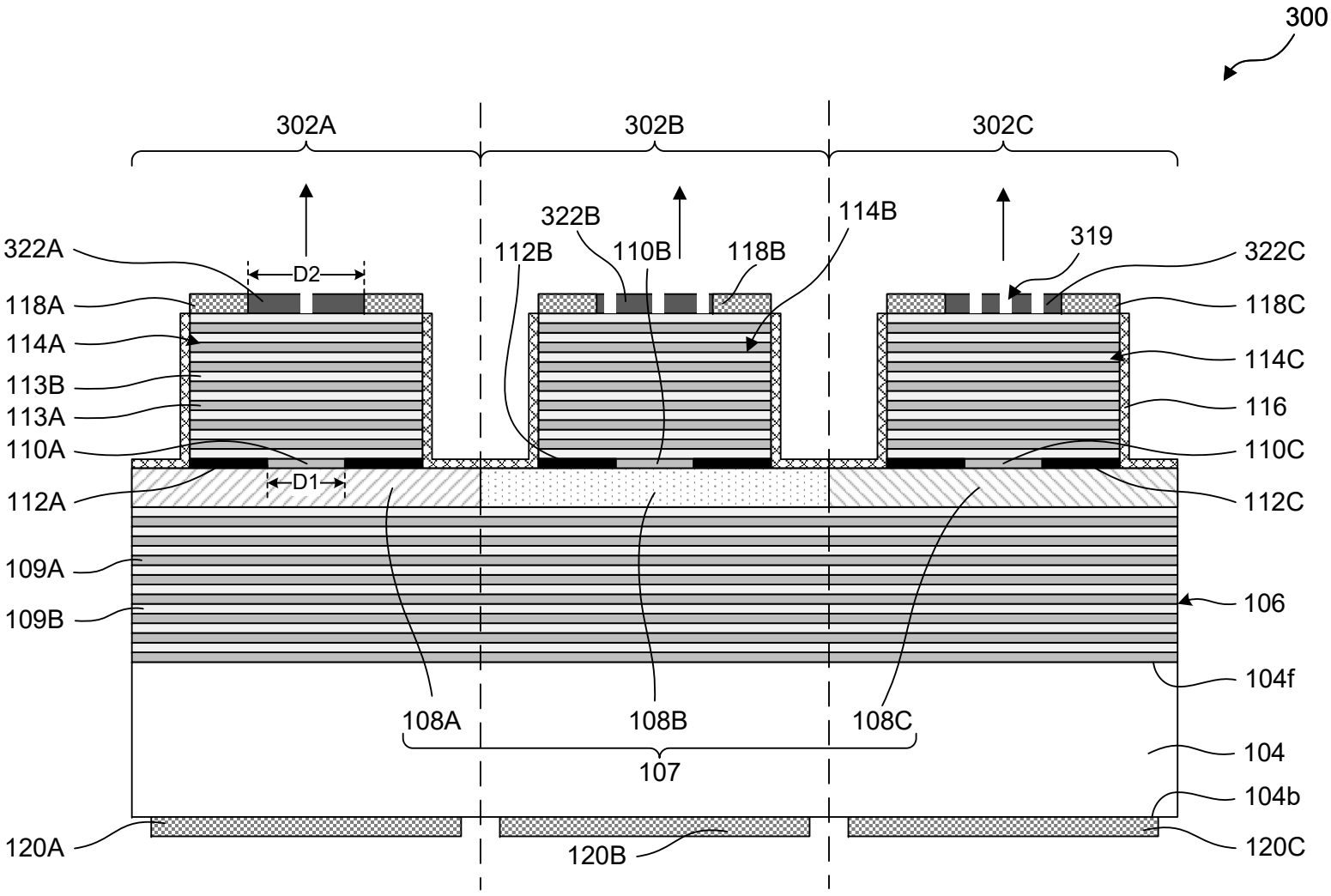

300
302A
302B
302C
322A
322B
114B
319
322C
112B
110B
118B
D2
118A
118C
114A
114C
113B
116
113A
110A
110C
D1
112A
112C
109A
106
109B
104f
108A
108B
108C
107
104
104b
120A
120B
120C
Z
Y
X

Fig. 24

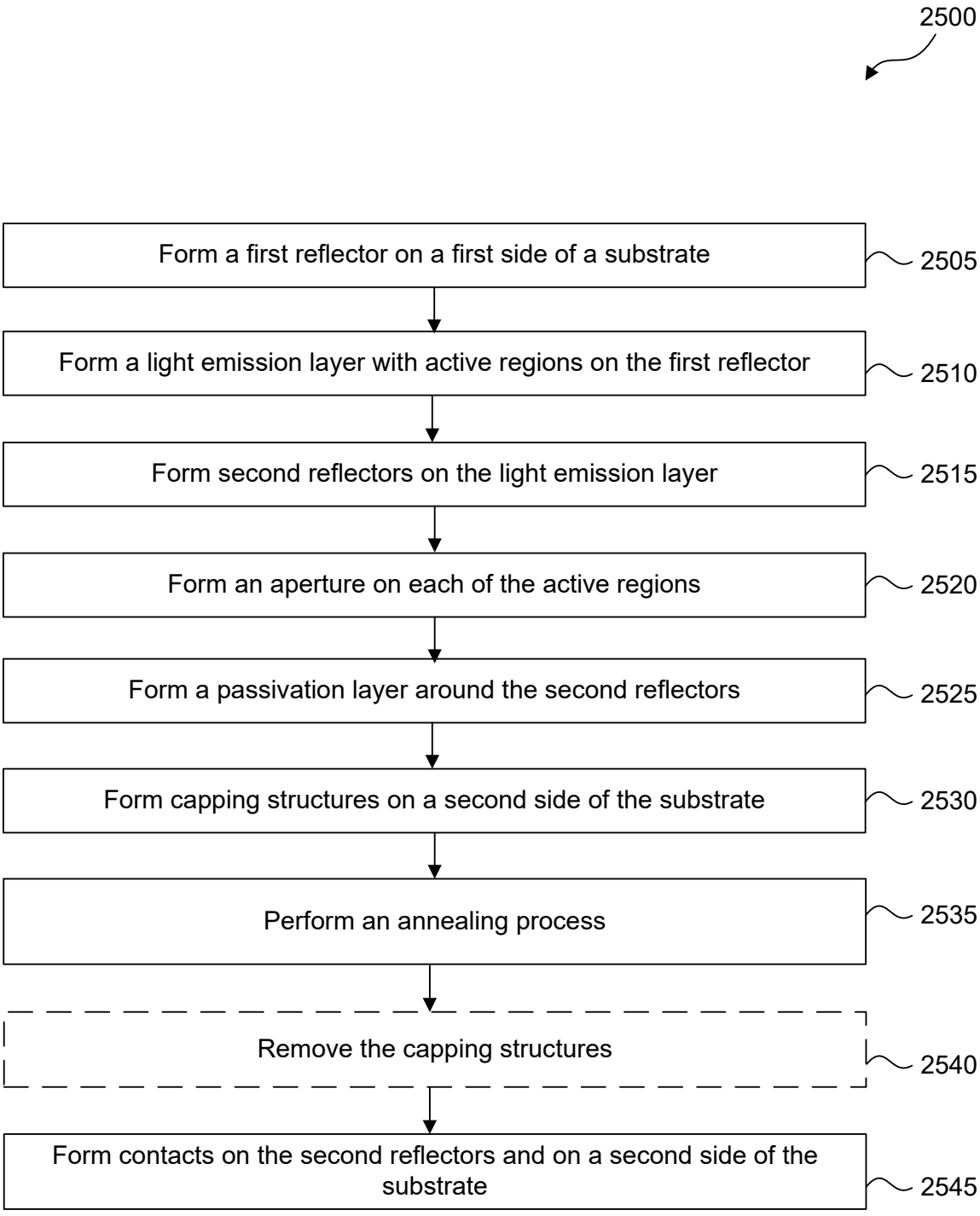

2500
Form a first reflector on a first side of a substrate
2505
Form a light emission layer with active regions on the first reflector
2510
Form second reflectors on the light emission layer
2515
Form an aperture on each of the active regions
2520
Form a passivation layer around the second reflectors
2525
Form capping structures on a second side of the substrate
2530
Perform an annealing process
2535
Remove the capping structures
2540
Form contacts on the second reflectors and on a second side of the substrate
2545

Fig. 25

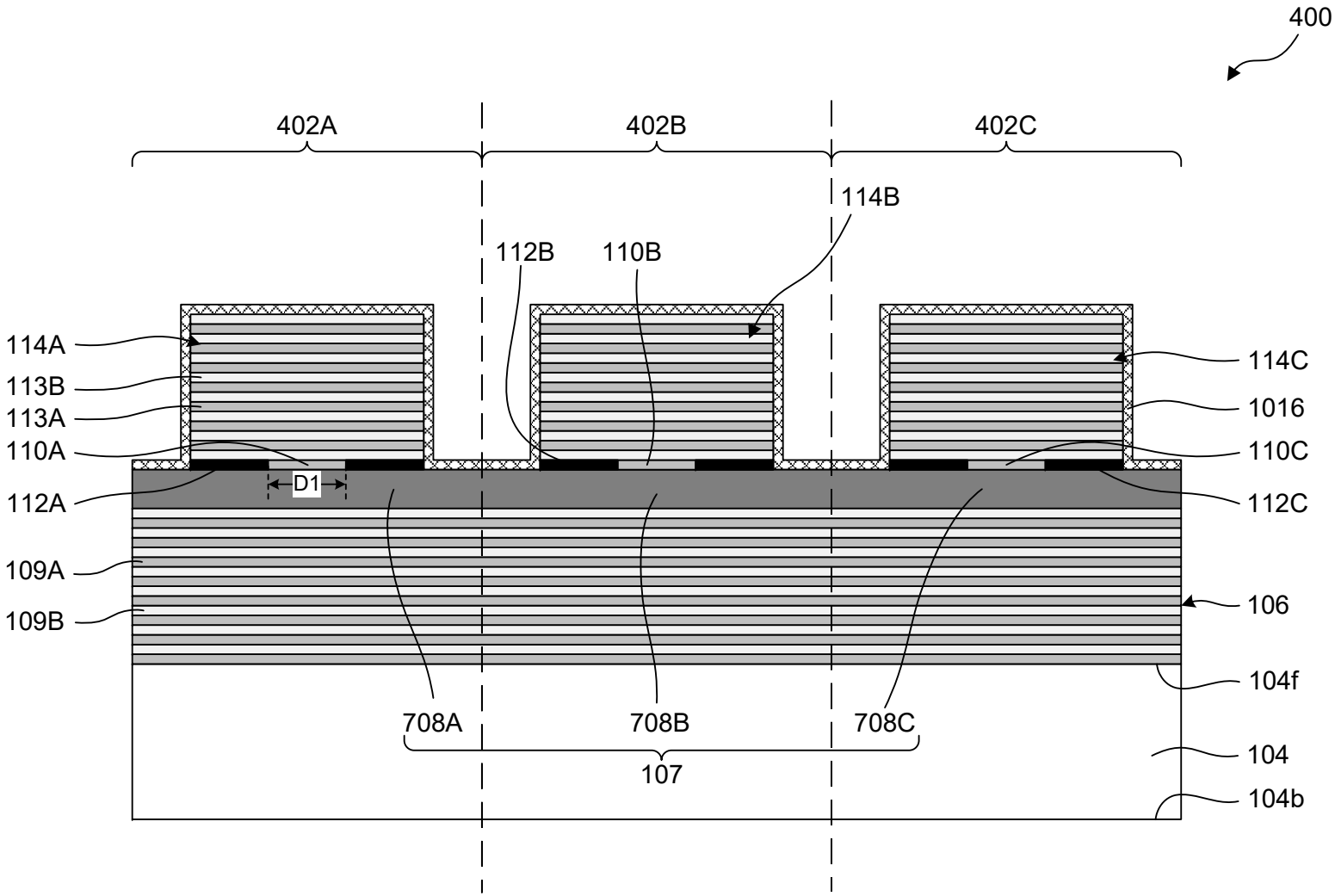
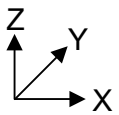

400
402A
402B
402C
114B
112B
110B
114A
113B
113A
110A
D1
112A
114C
1016
110C
112C
109A
109B
106
104f
708A
708B
708C
107
104
104b

Fig. 26


Z
Y
X

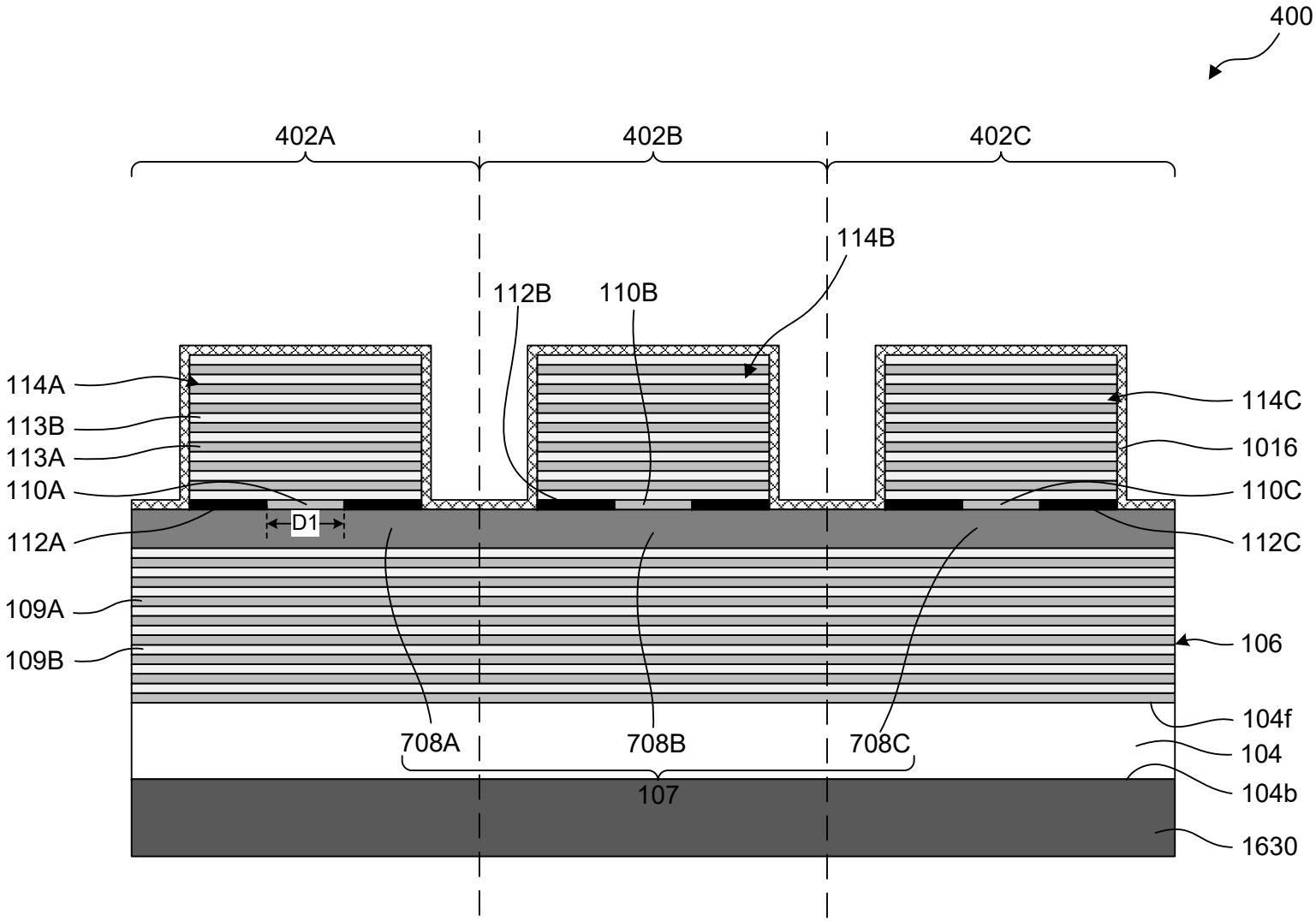
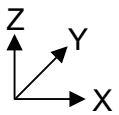

400
402A
402B
402C
114B
112B
110B
114A
113B
113A
110A
112A
D1
114C
1016
110C
112C
109A
109B
106
104f
104
104b
1630
708A
708B
708C
107

Fig. 27


Z
Y
X

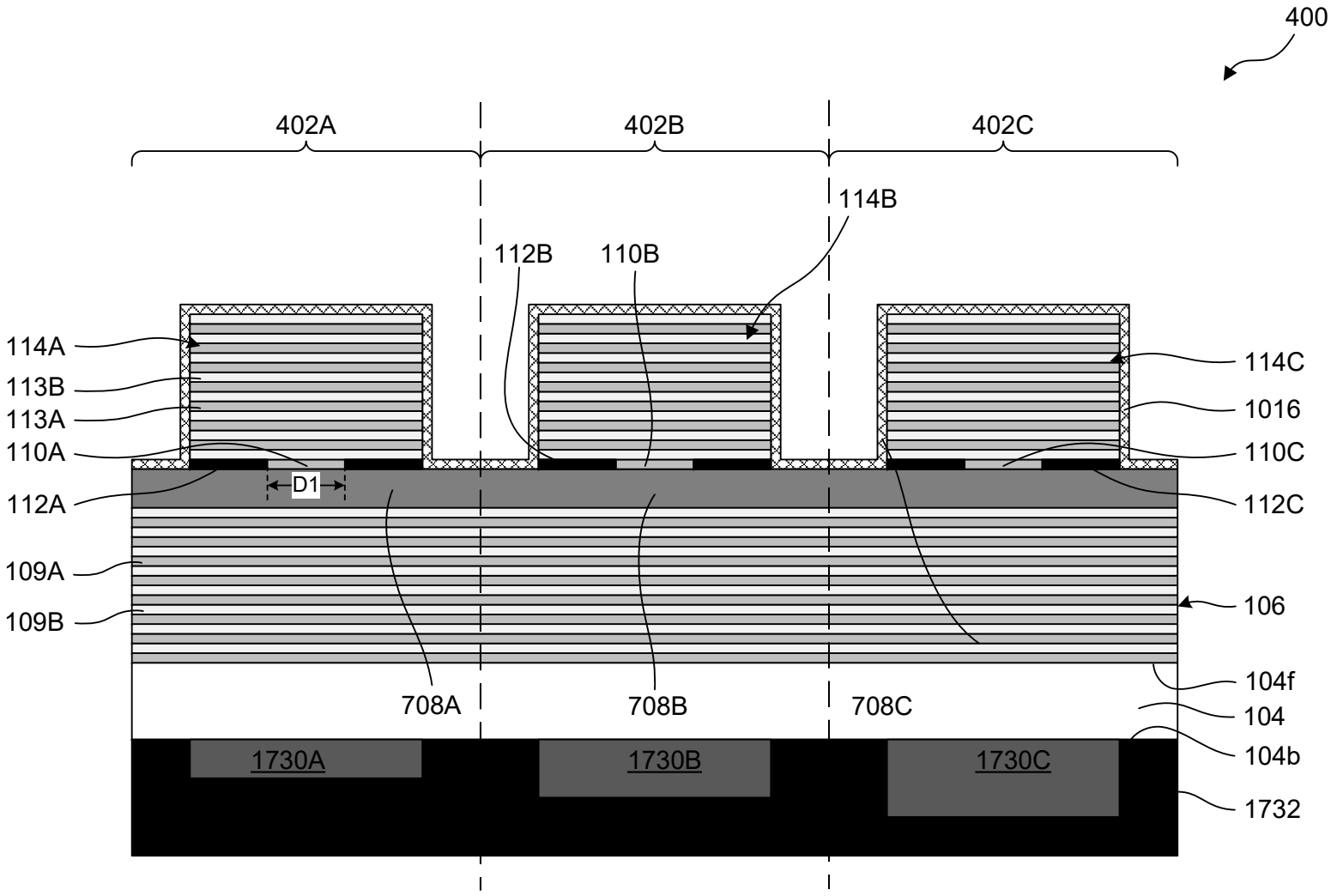
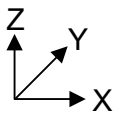

400
402A
402B
402C
114B
112B
110B
114A
113B
113A
110A
D1
112A
114C
1016
110C
112C
109A
109B
106
104f
104
104b
1732
708A
708B
708C
1730A
1730B
1730C

Fig. 28


Z
Y
X

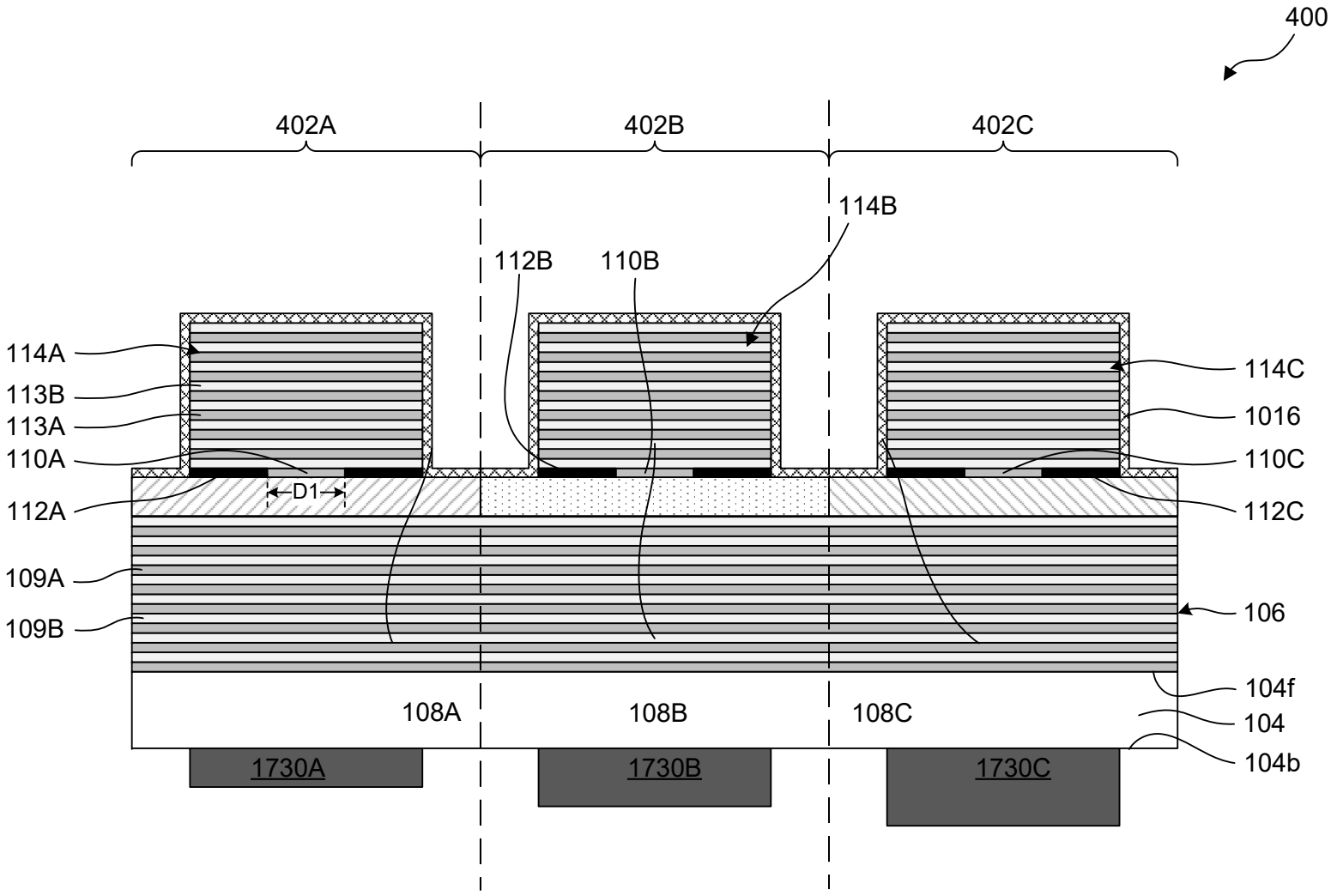

400
402A
402B
402C
114B
112B
110B
114A
113B
113A
110A
112A
D1
114C
1016
110C
112C
109A
109B
106
104f
104
104b
108A
108B
108C
1730A
1730B
1730C
Z
Y
X

Fig. 29

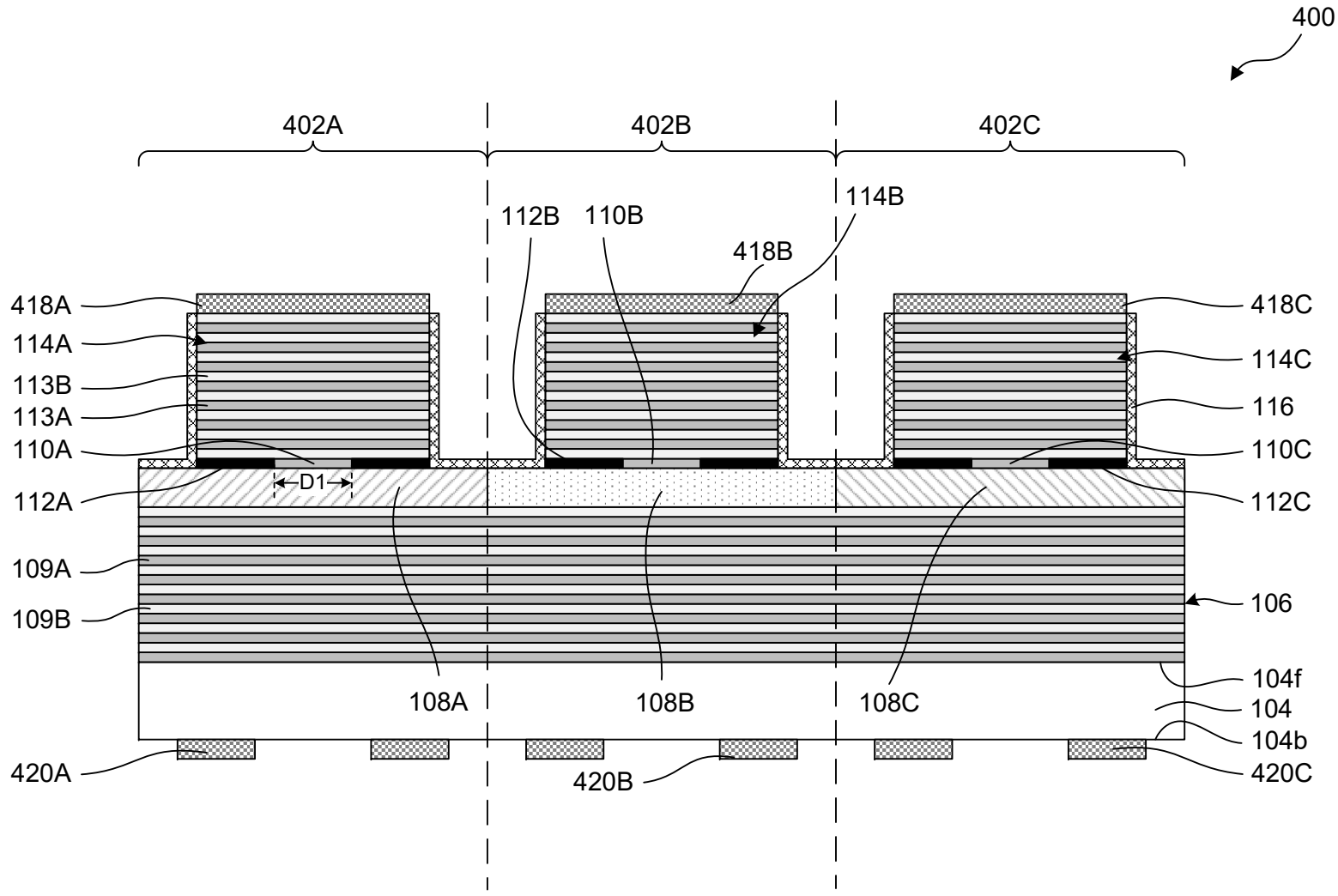
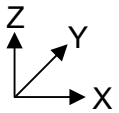

400
402A
402B
402C
112B
110B
114B
418B
418A
418C
114A
114C
113B
116
113A
110A
110C
D1
112A
112C
109A
106
109B
104f
108A
108B
108C
104
104b
420A
420B
420C

Fig. 30


Z
Y
X

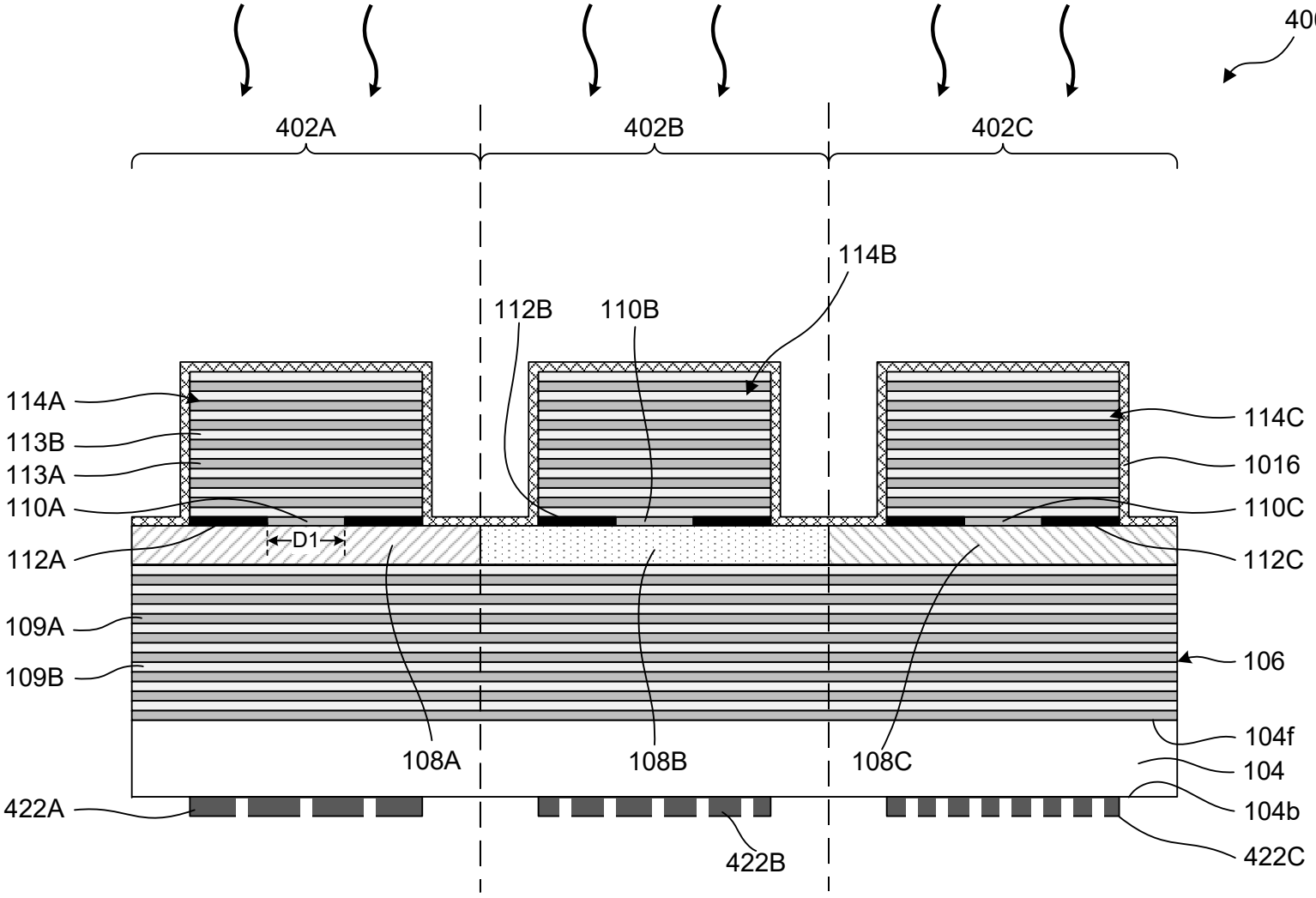
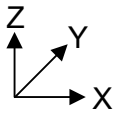

400
402A
402B
402C
114B
112B
110B
114A
113B
113A
110A
112A
D1
114C
1016
110C
112C
109A
109B
106
104f
104
104b
422C
108A
108B
108C
422A
422B

Fig. 31


Z
Y
X

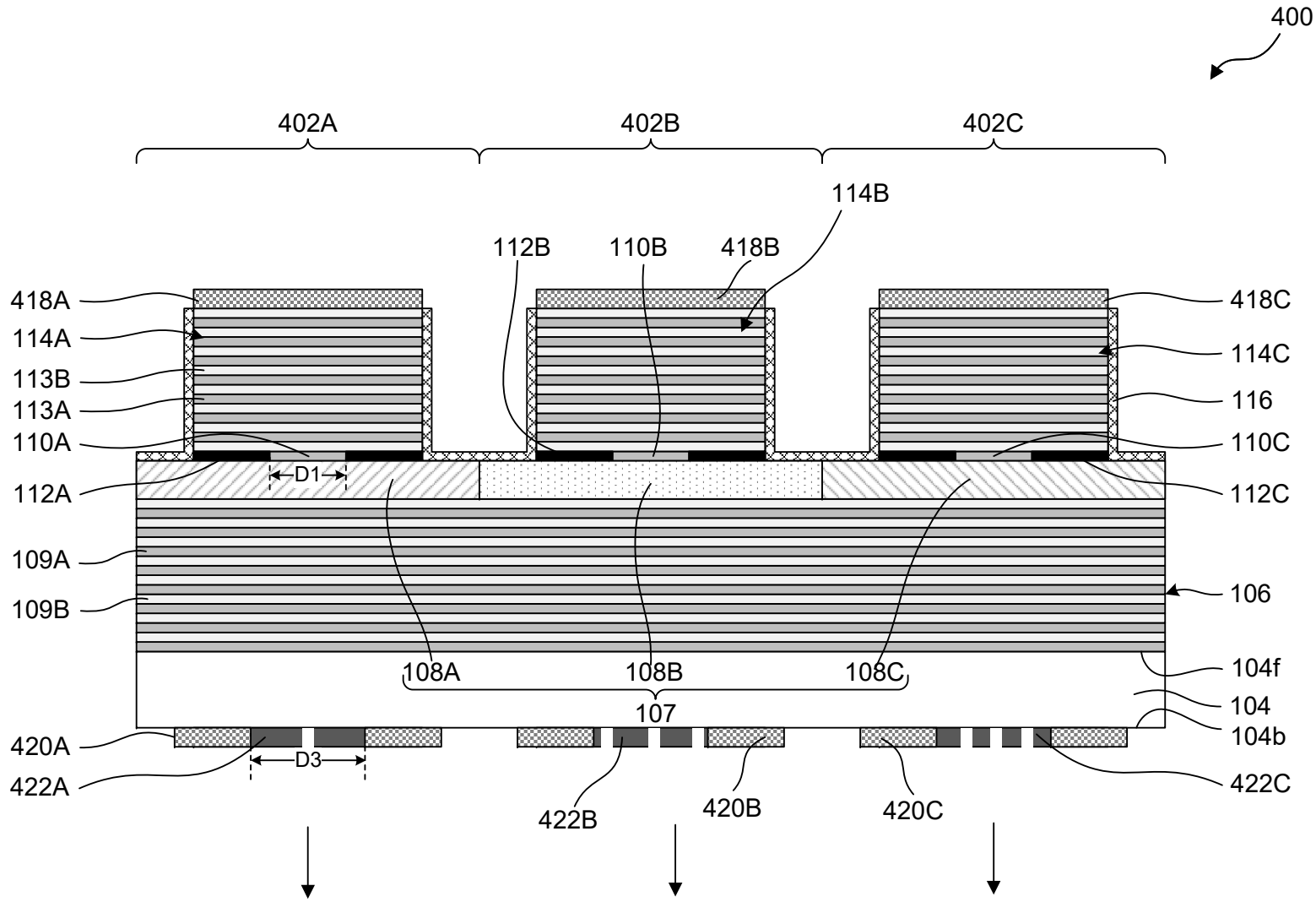

400
402A
402B
402C
114B
112B
110B
418B
418A
418C
114A
114C
113B
116
113A
110A
110C
D1
112A
112C
109A
106
109B
108A
108B
108C
104f
107
104
104b
420A
D3
422A
422C
422B
420B
420C
Z
Y
X

Fig. 32

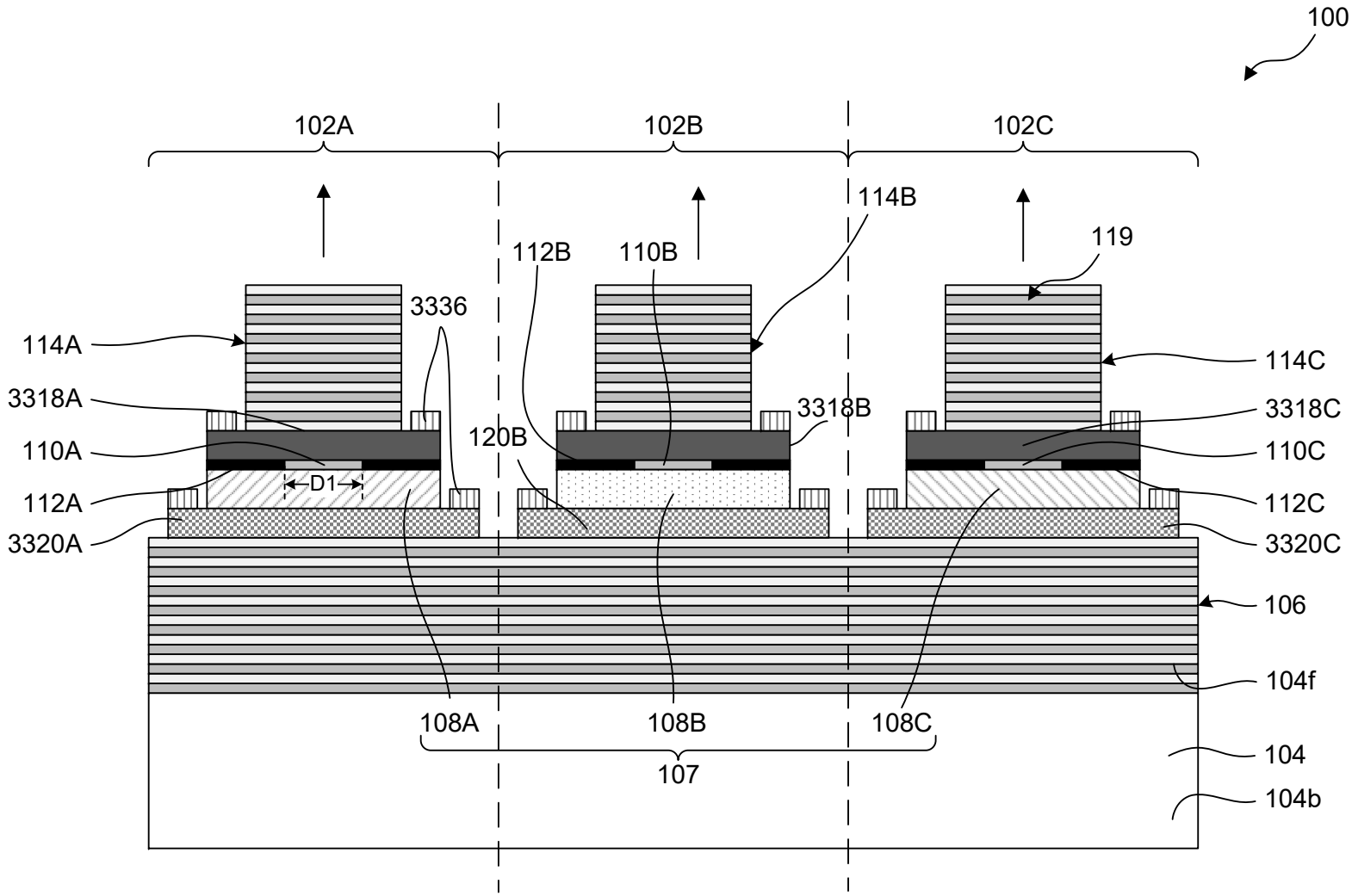

100
102A
102B
102C
114B
112B
110B
119
3336
114A
114C
3318A
3318B
3318C
120B
110A
110C
D1
112A
112C
3320A
3320C
106
104f
108A
108B
108C
107
104
104b
Z
Y
X

Fig. 33