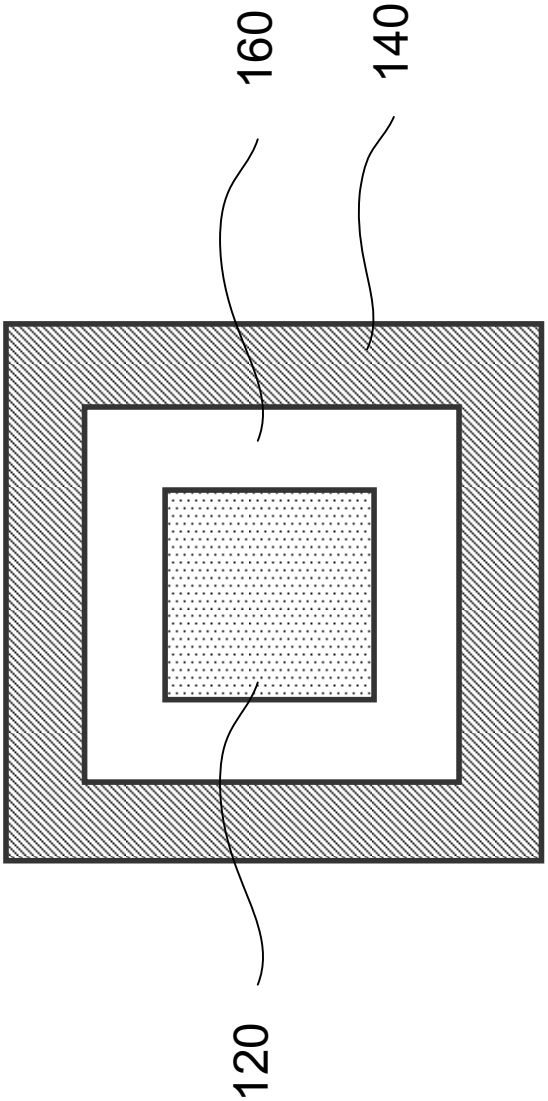


Fig. 1

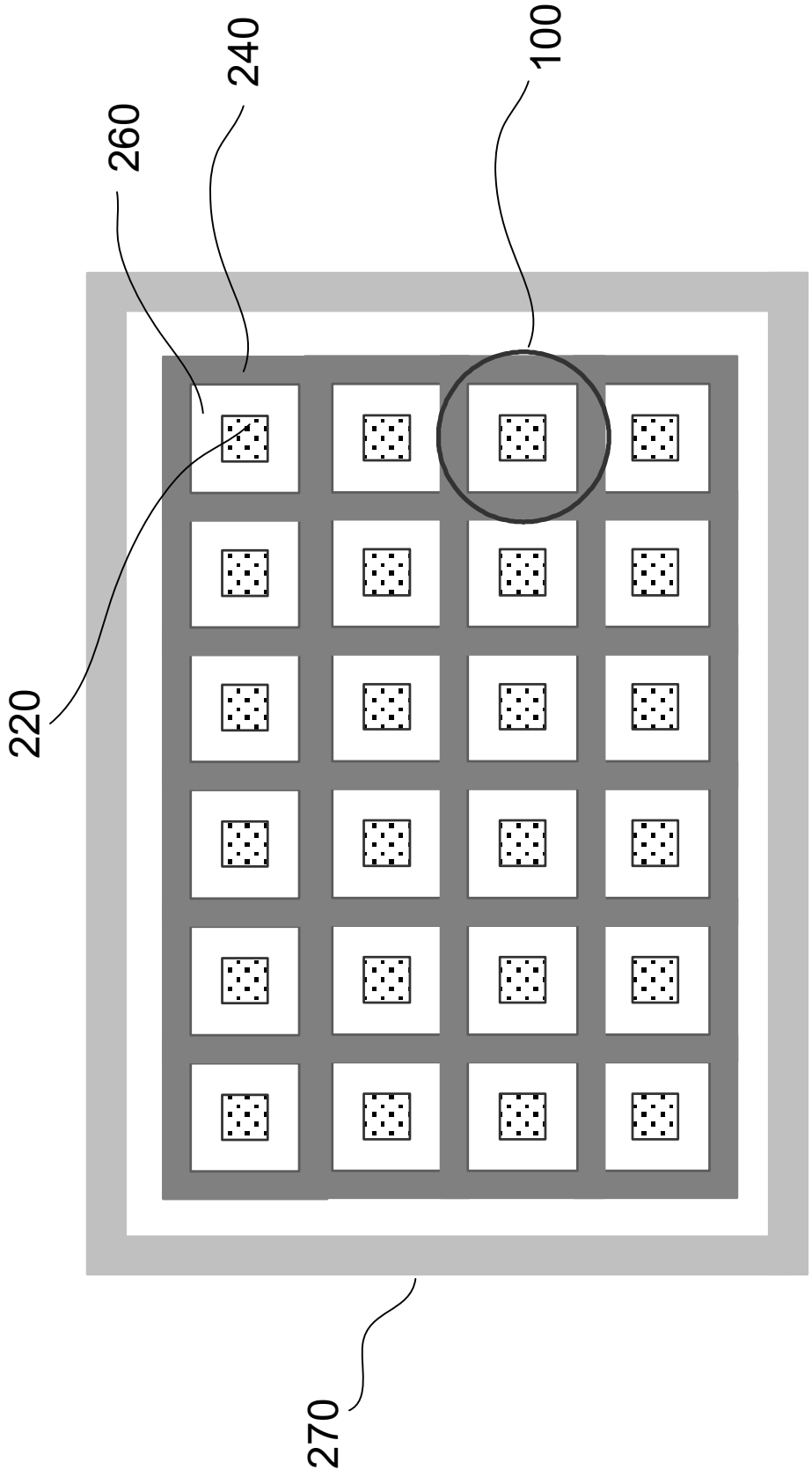


Fig. 2a

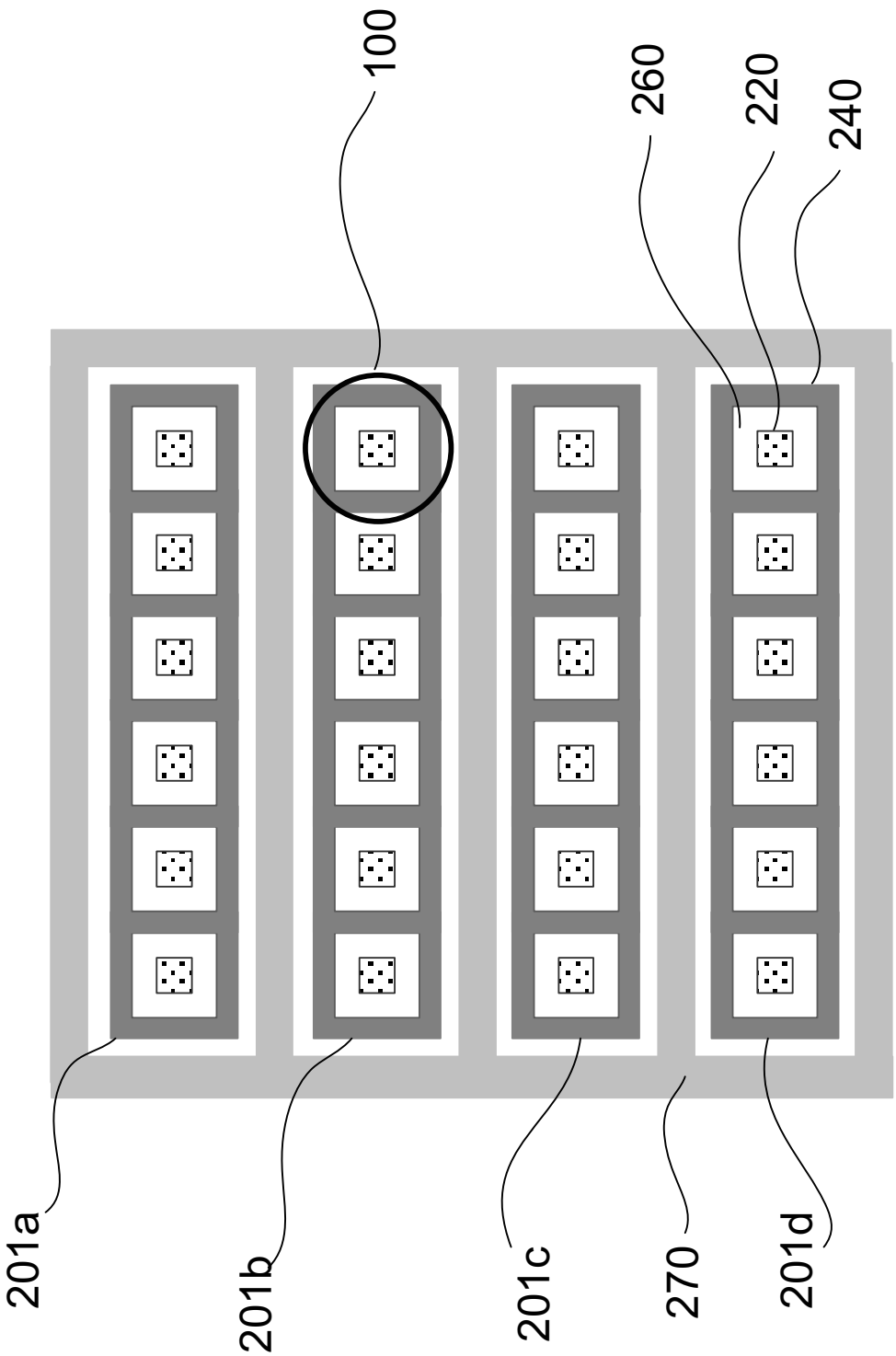


Fig. 2b

Row/Column	# Cells	Simulated Cap (F)	fF	Area (um^2)	fF / cell	fF / um^2
1x1	1	5.13E-17	0.05133474	0.25	0.051335	0.205339
2x2	4	2.04E-16	0.203607	0.81	0.050902	0.251367
5x5	25	1.26E-15	1.261134	4.41	0.050445	0.285971
10x10	100	5.03E-15	5.026946	16.81	0.050269	0.299045
100x100	10000	5.03E-13	500	1608.01	0.05	0.310943
1000x1000	1000000	5.03E-11	50000	160080.01	0.05	0.312344
10x1	10	5.09E-16	0.509162	2.05	0.050916	0.248372
10x2	20	1.01E-15	1.011833	3.69	0.050592	0.274209

Fig. 3a

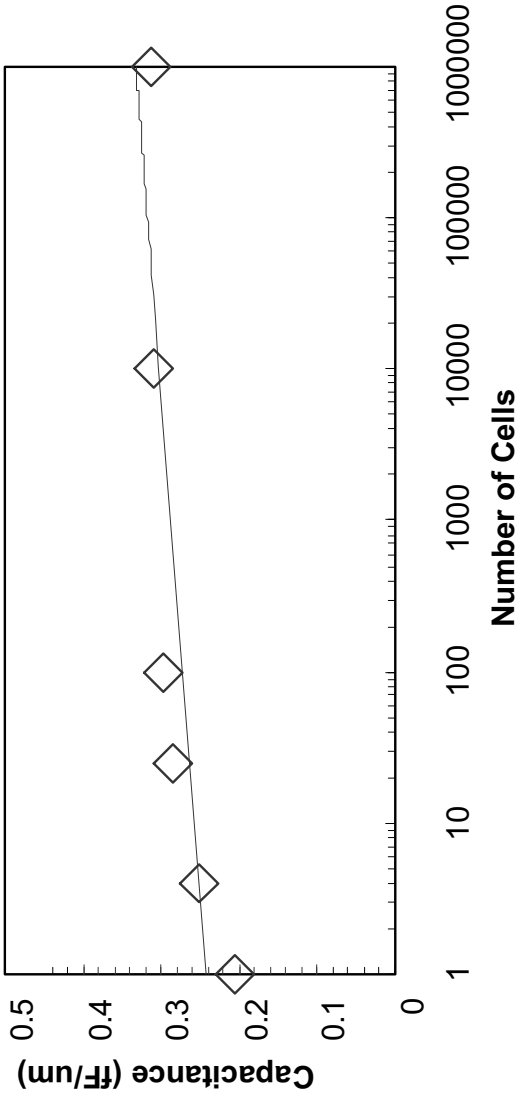

Capacitance (fF/um)
0.5
0.4
0.3
0.2
0.1
0
1
10
100
1000
10000
100000
1000000
Number of Cells

Fig. 3b

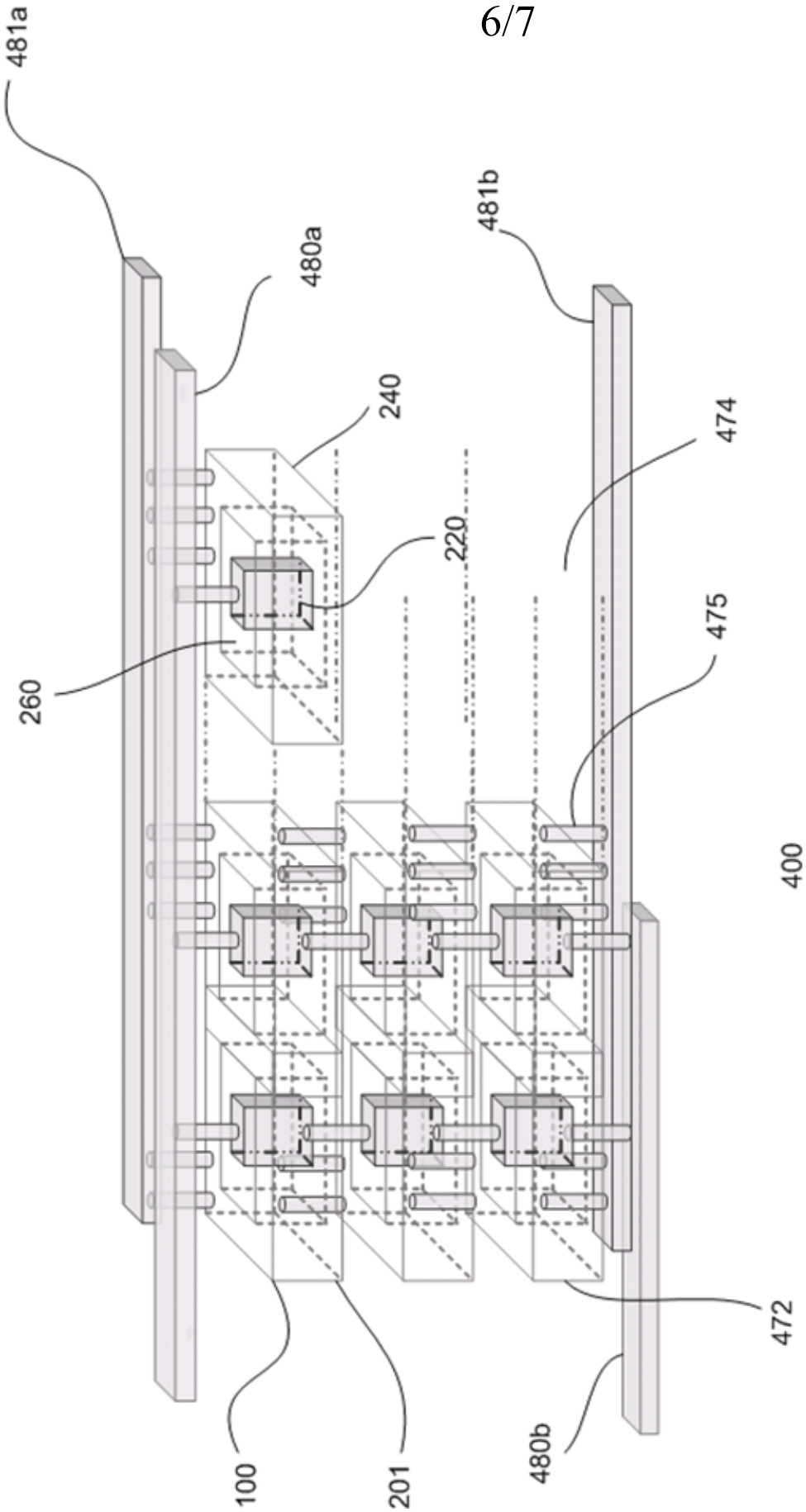


Fig. 4a

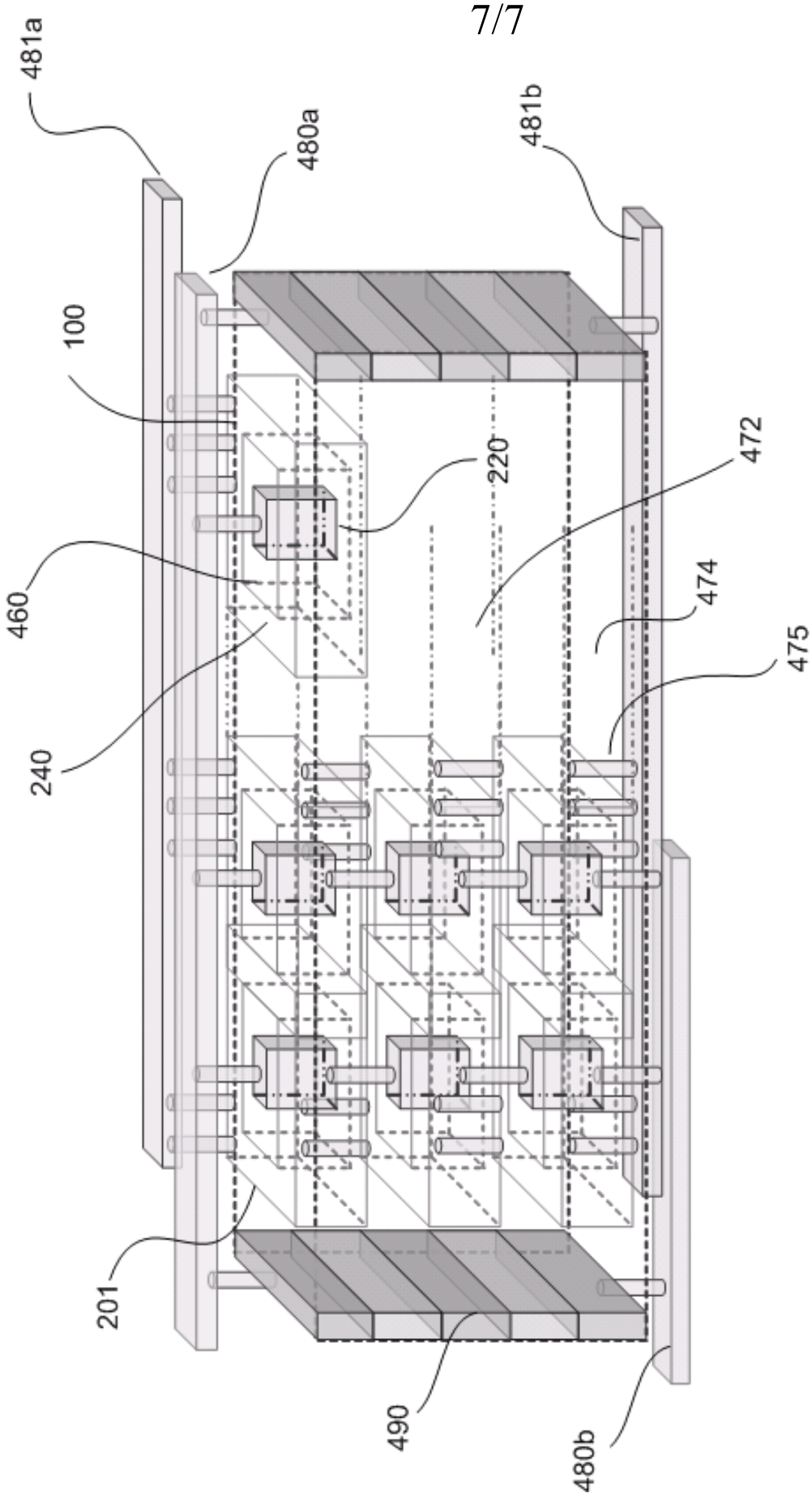


Fig. 4b