

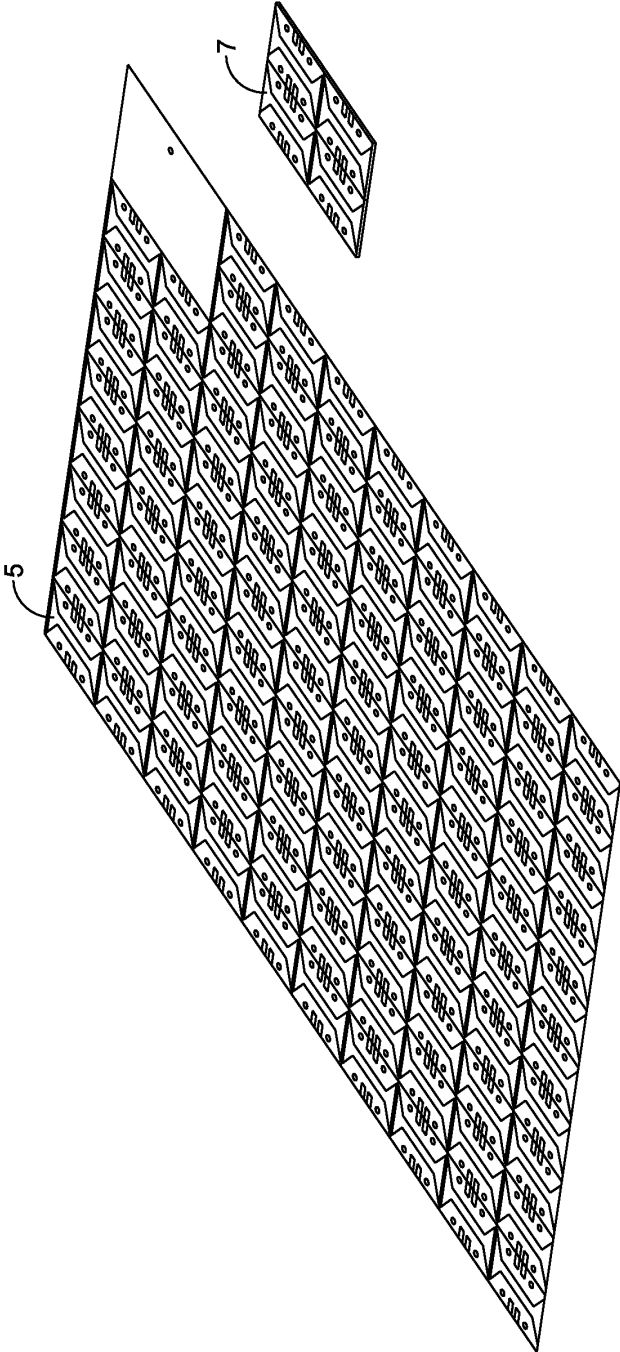


FIG. 1

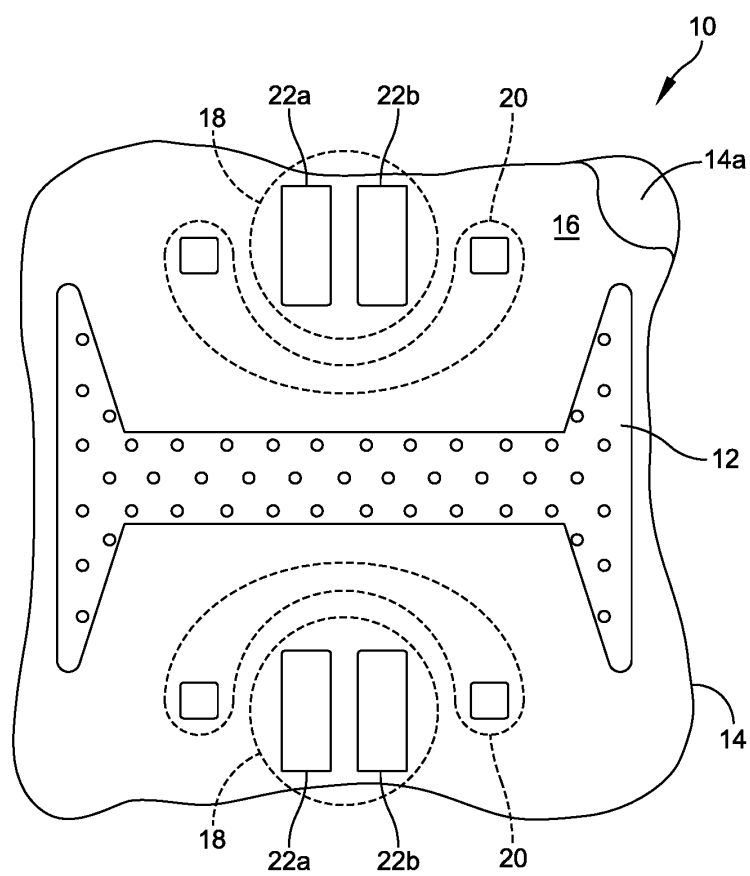


FIG. 1A

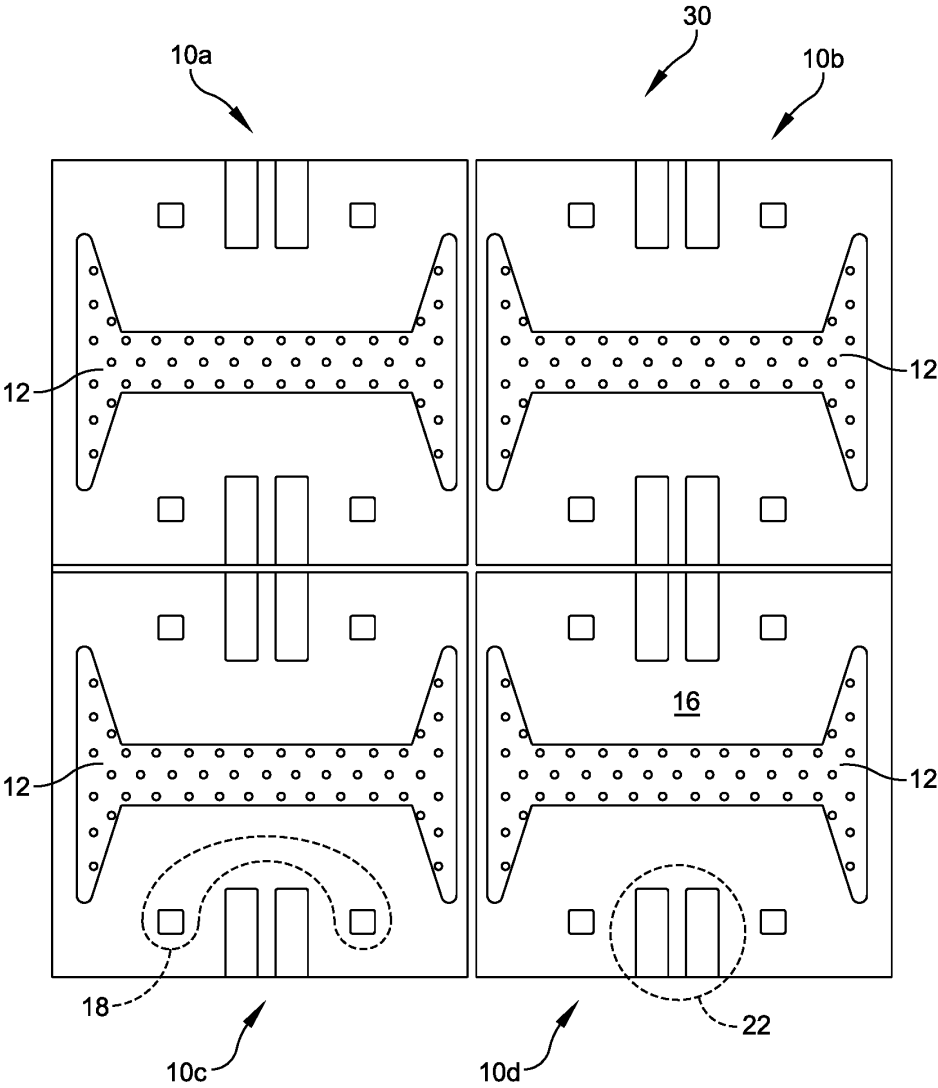


FIG. 1B

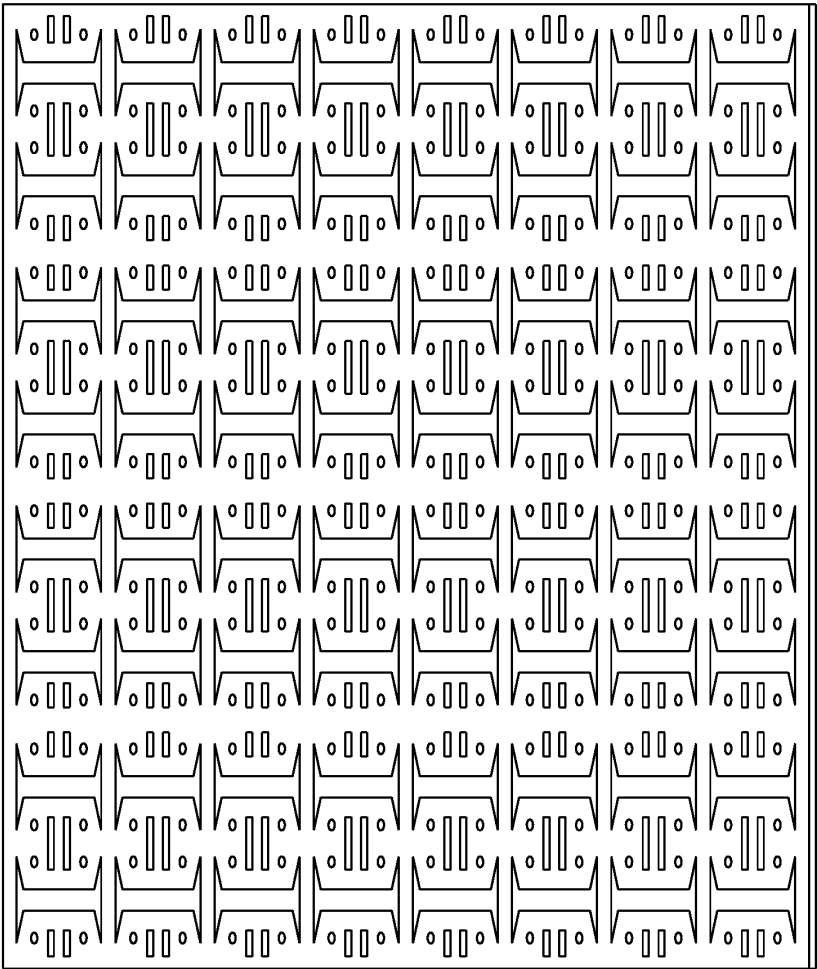


FIG. 1C

200

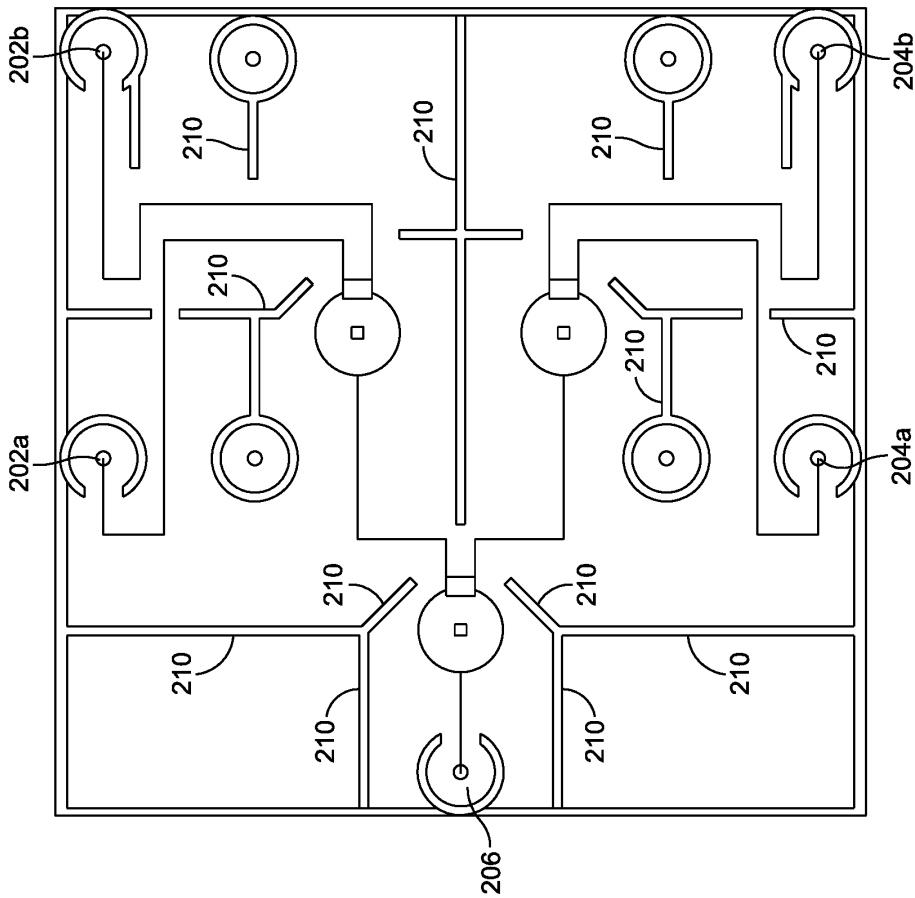


FIG. 2

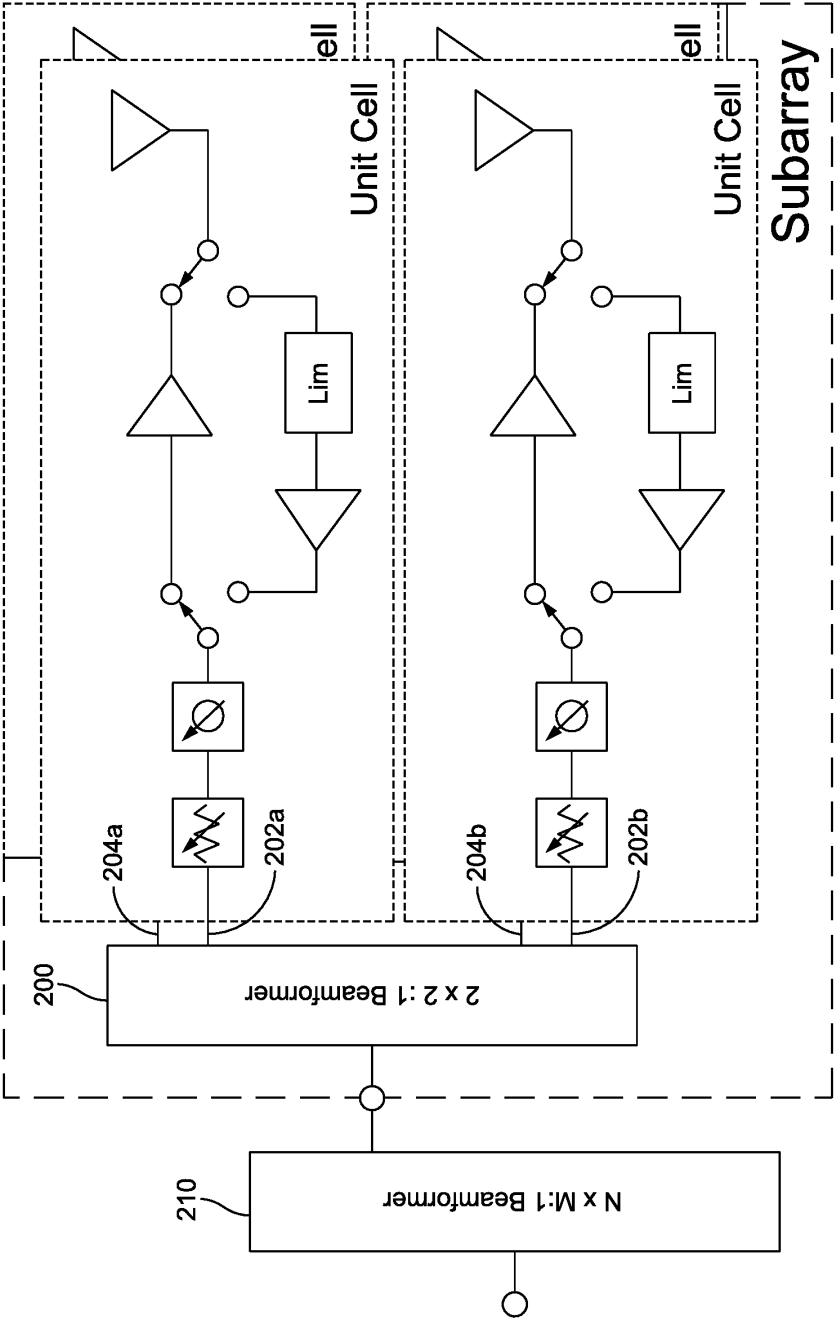


FIG. 2A

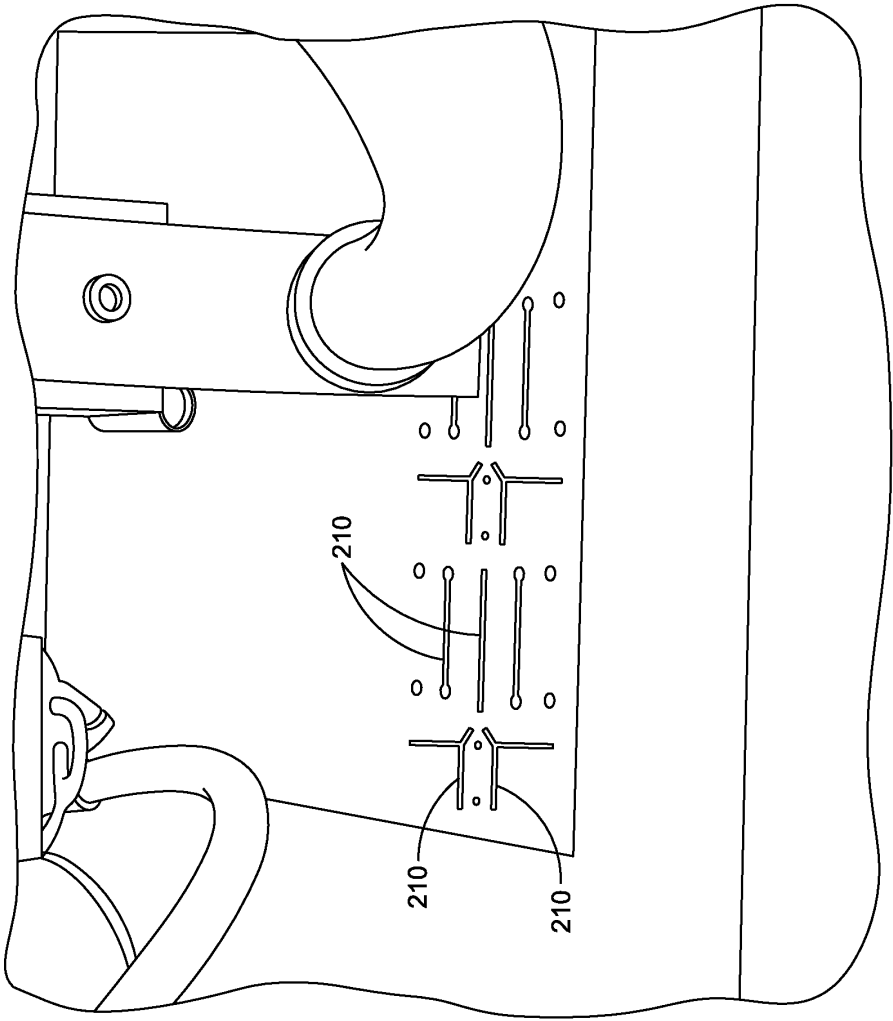


FIG. 2B

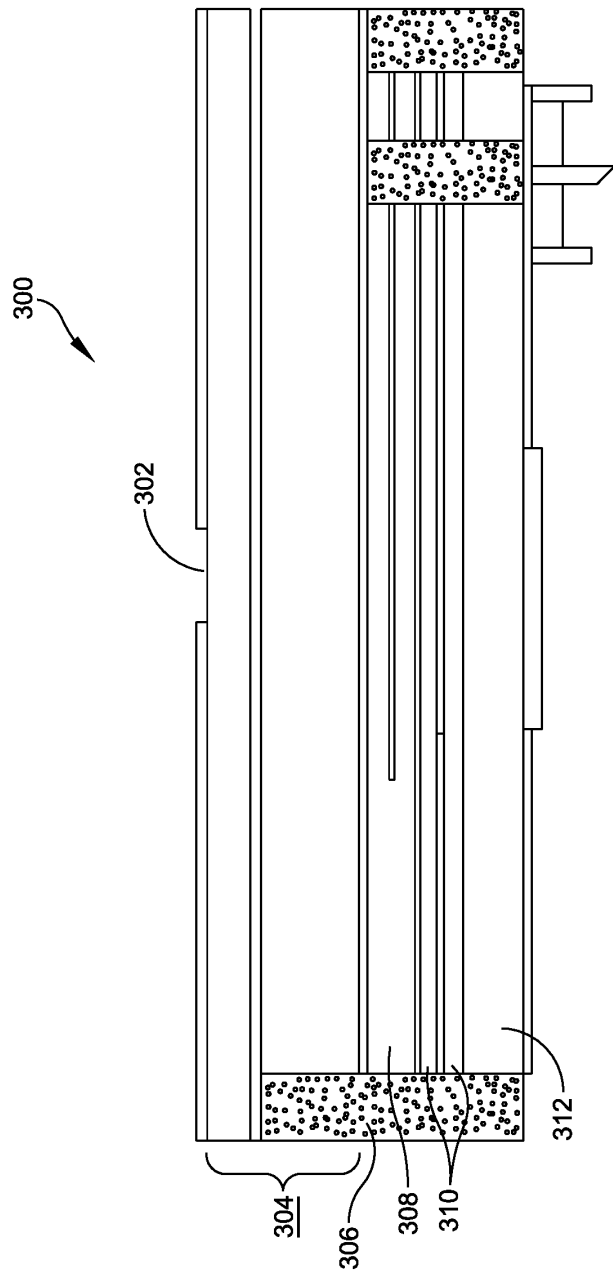


FIG. 3

Function	Material	Height (mils)	SubAssy (mils)
Active Component Microstrip	Copper	0.7	
Microstrip substrate	Taconic RF-35	5.0	
Microstrip Ground	Copper	0.7	6.4
DC-logic substrate (x2)	FR-4	8.0	
DC-logic trace (x2)	Copper	1.4	
DC-Logic Ground (x3)	Copper	1.4	10.8
Beamformer (45) ground	Copper	0.7	
Bfmr (45) substrate	Taconic RF-35	5.0	
Bfmr (45) trace	Copper	0.7	
Bfmr (45) substrate	Taconic RF-35	5.0	
Bfmr (±45) ground	Copper	0.7	12.1
Radiator Feed ground	Copper	0.7	
Radiator Feed substrate	Taconic RF-35	10.0	
Radiator Feed ground	Copper	0.7	
Radiator substrate	Taconic RF-35	5.0	
Radiator ground	Copper	0.7	17.1
		Total	46.4

FIG. 4

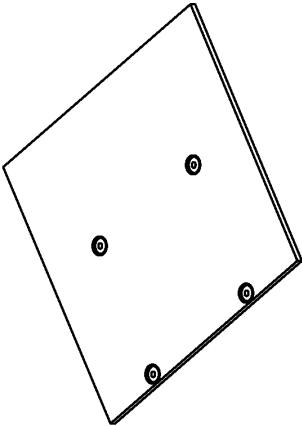


FIG. 5C

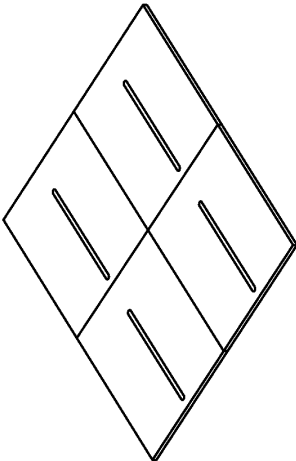


FIG. 5B

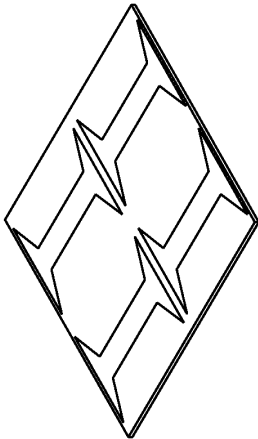


FIG. 5A

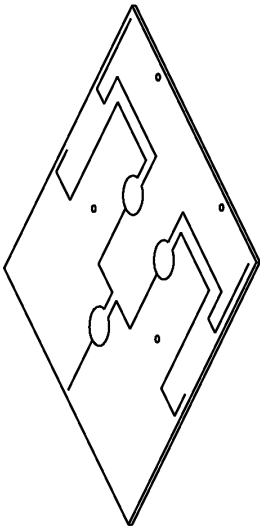


FIG. 6A

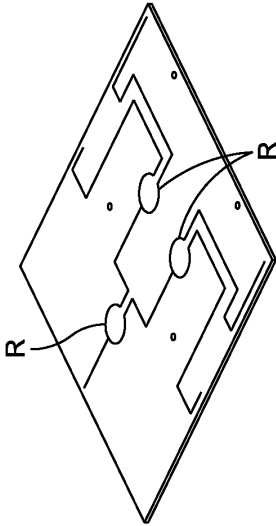


FIG. 6B

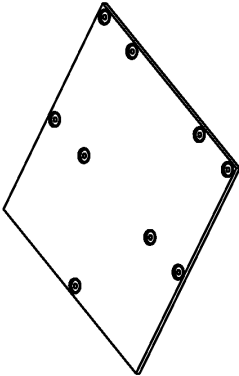


FIG. 6C

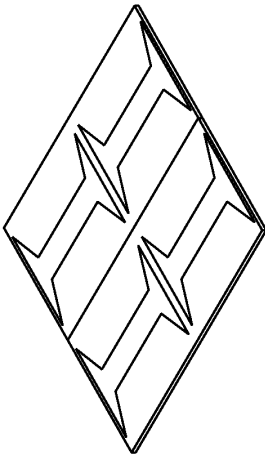


FIG. 7A

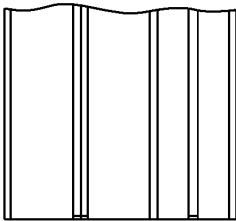


FIG. 7B

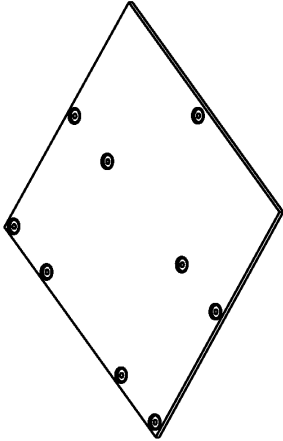


FIG. 7C

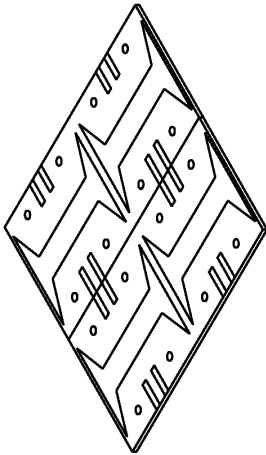


FIG. 8A

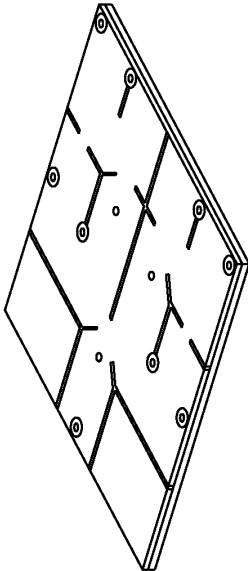


FIG. 8B

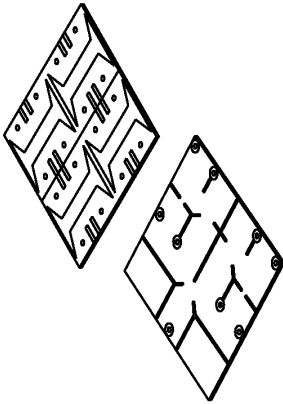


FIG. 8C

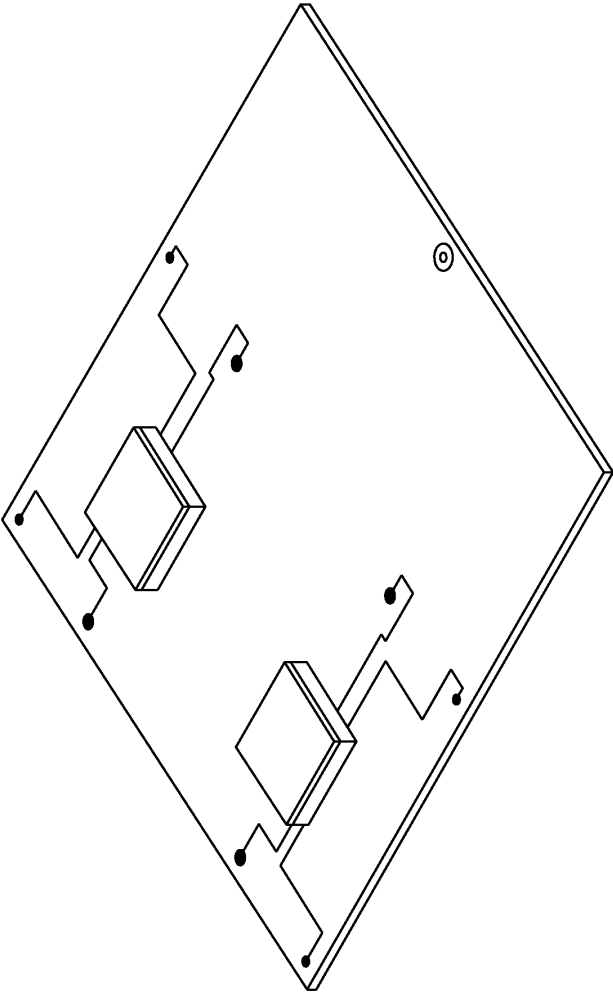


FIG. 9

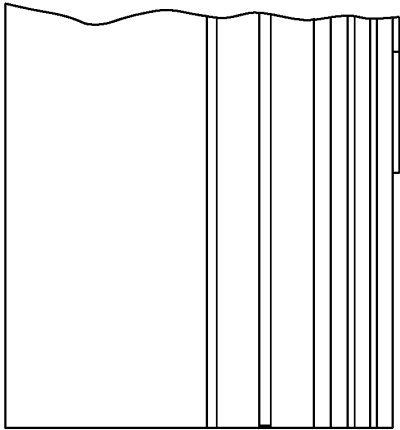


FIG. 10B

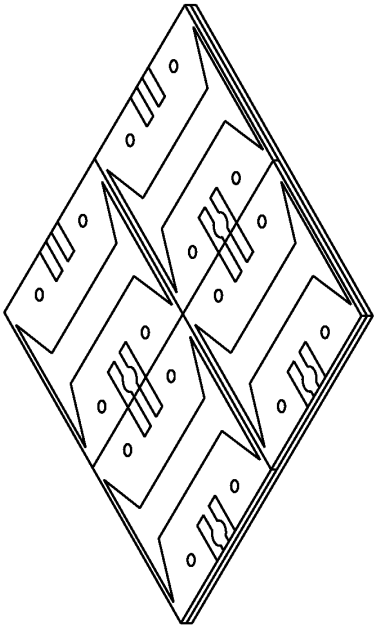


FIG. 10A

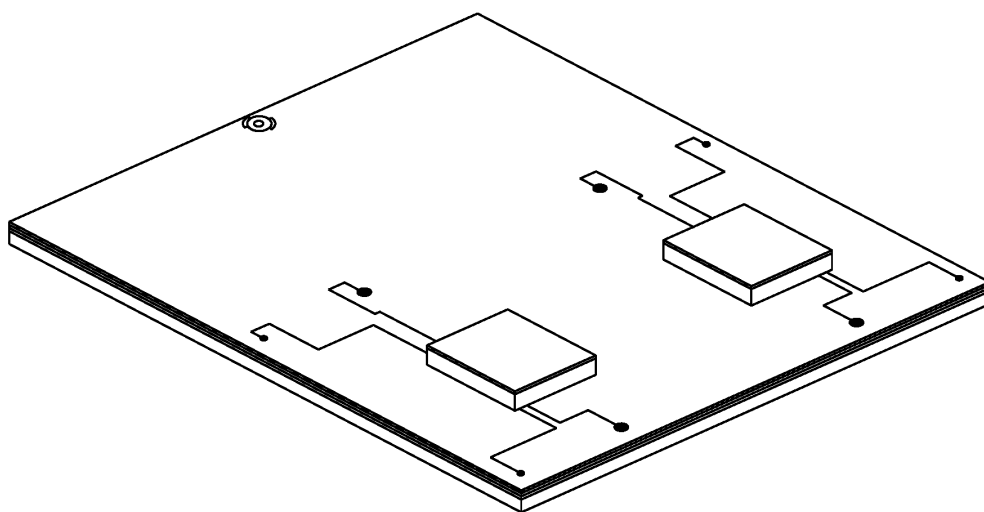


FIG. 11A

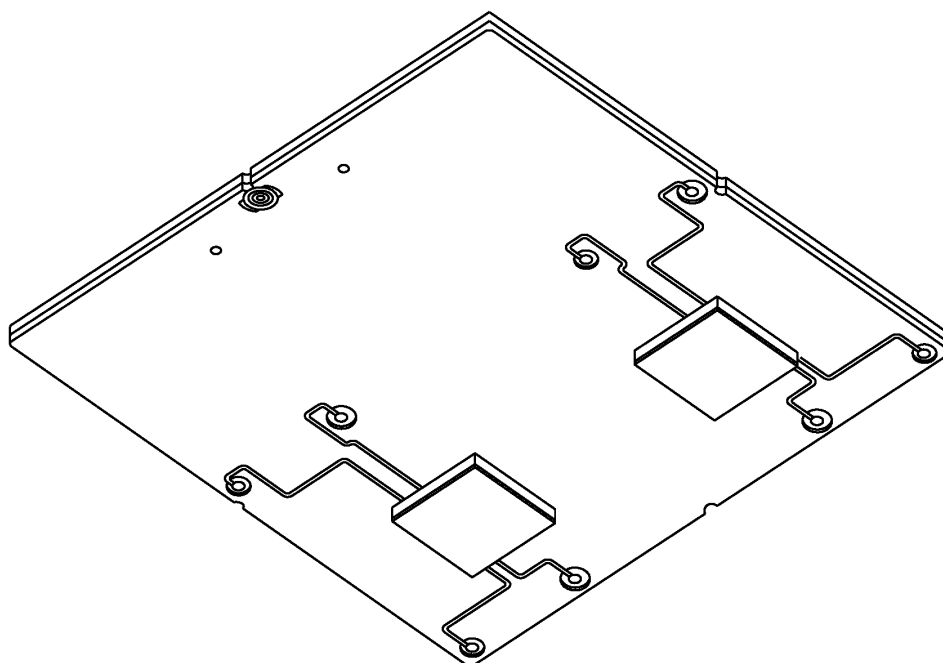


FIG. 11B

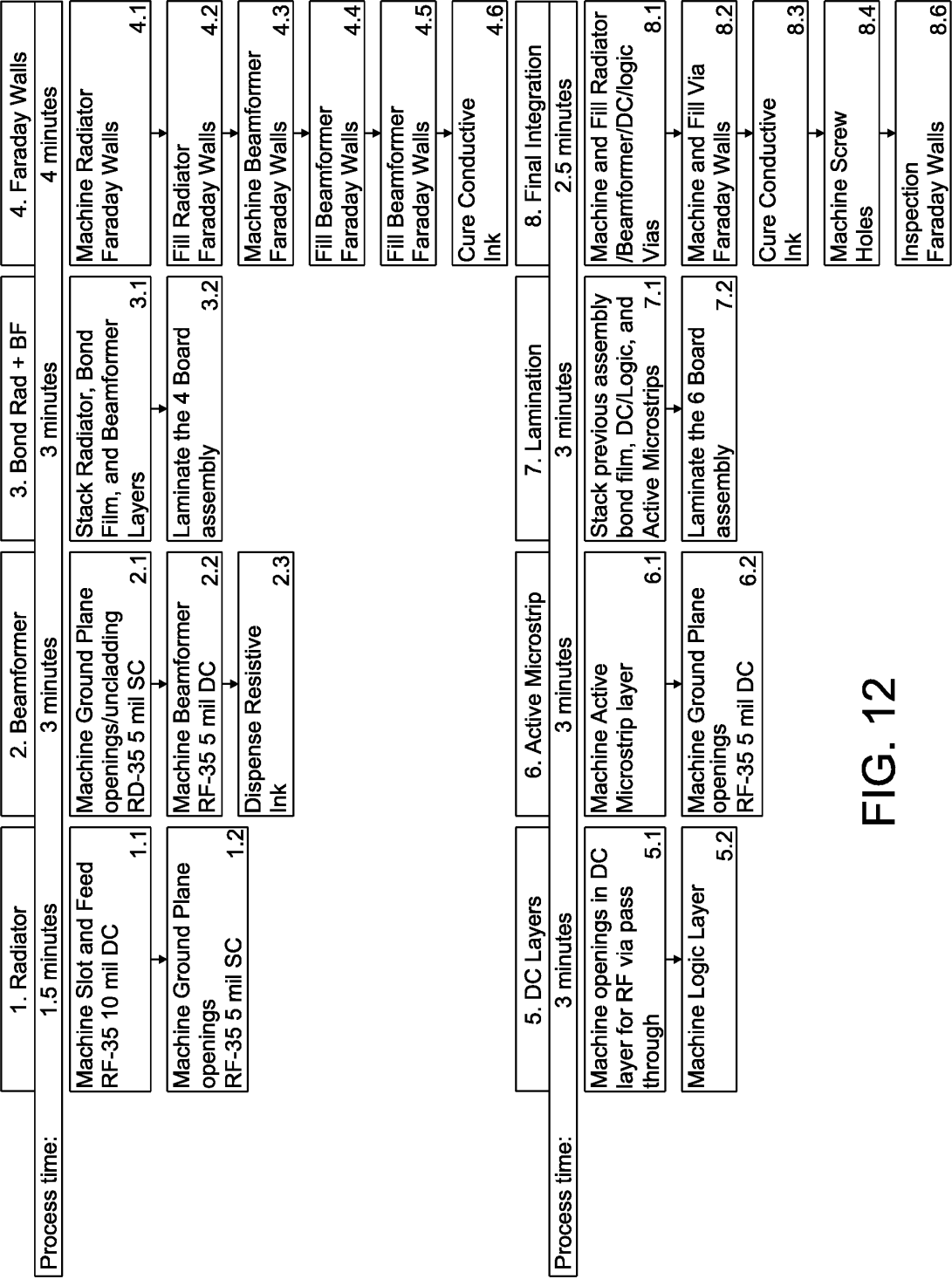


FIG. 12