



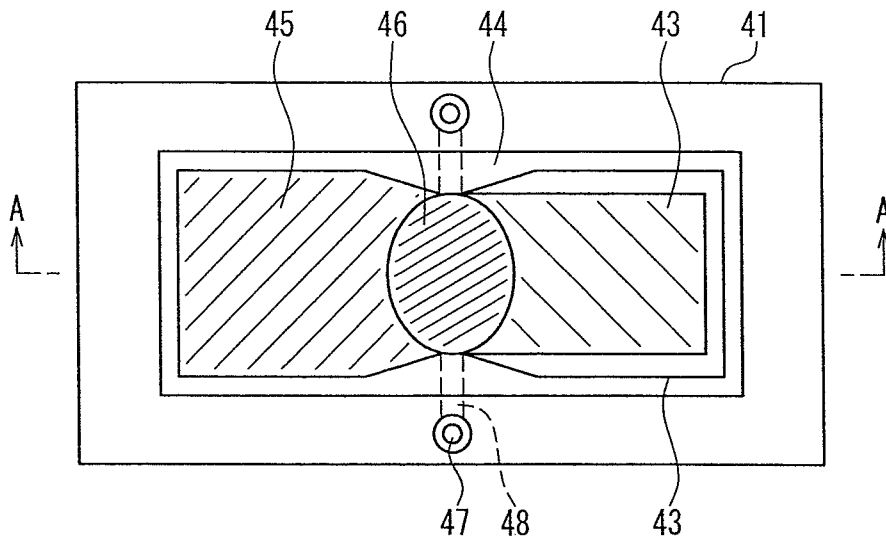


FIG. 2A

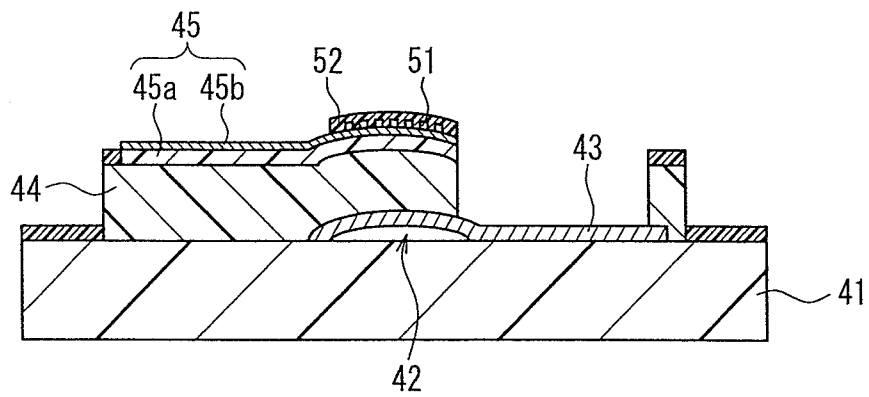


FIG. 2B

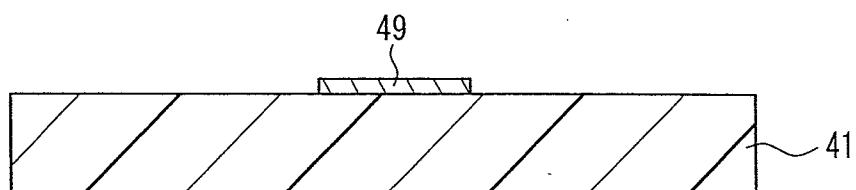


FIG. 3A

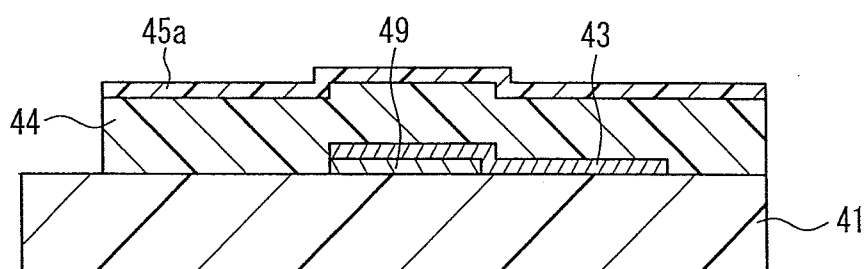


FIG. 3B

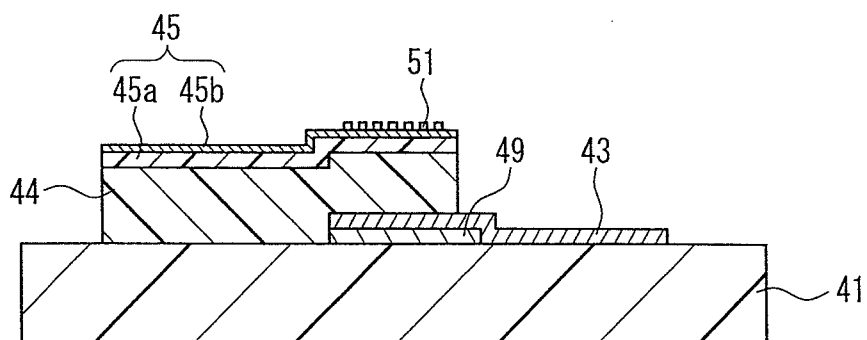


FIG. 3C

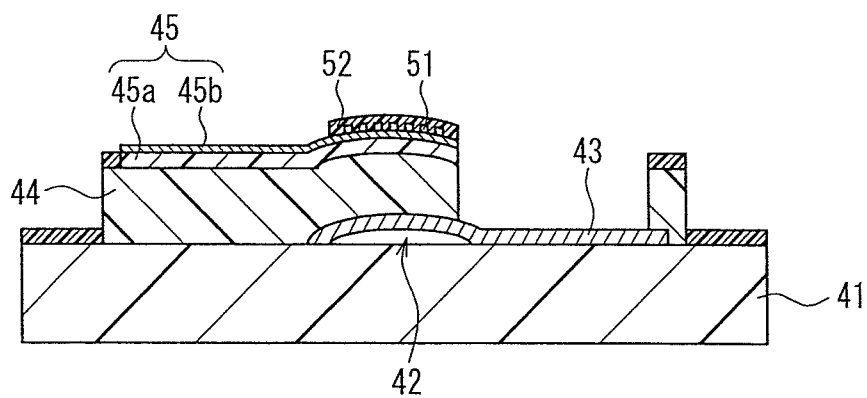


FIG. 3D

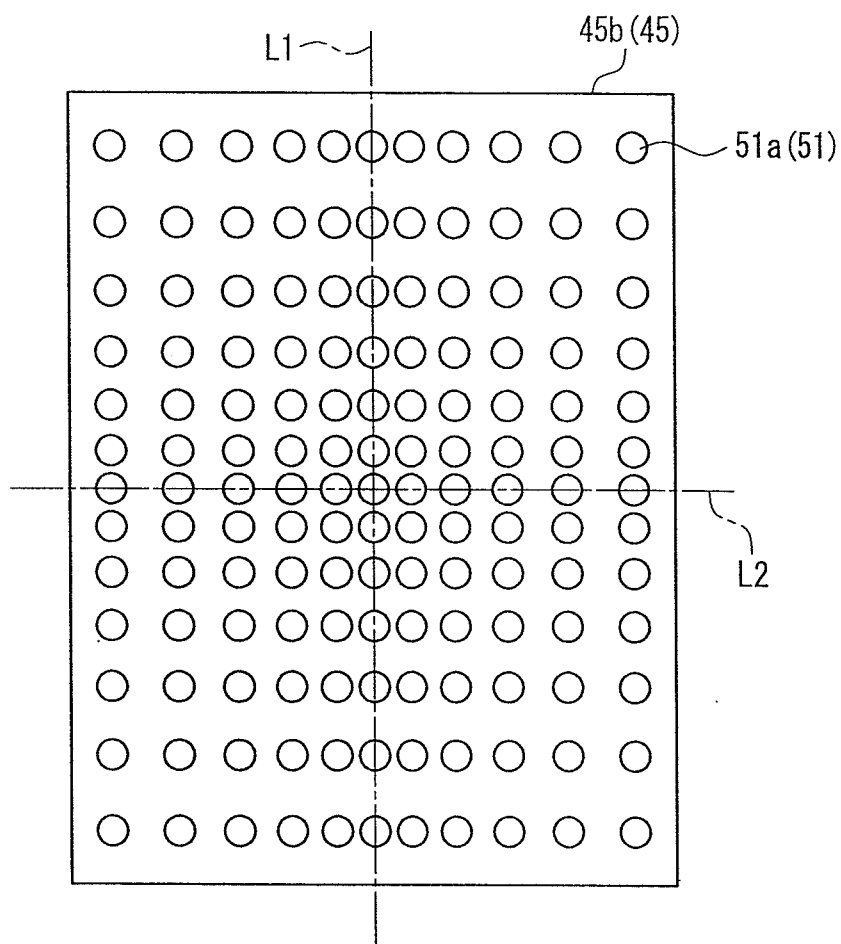


FIG. 4

Resonance characteristics of piezoelectric thin-film resonator

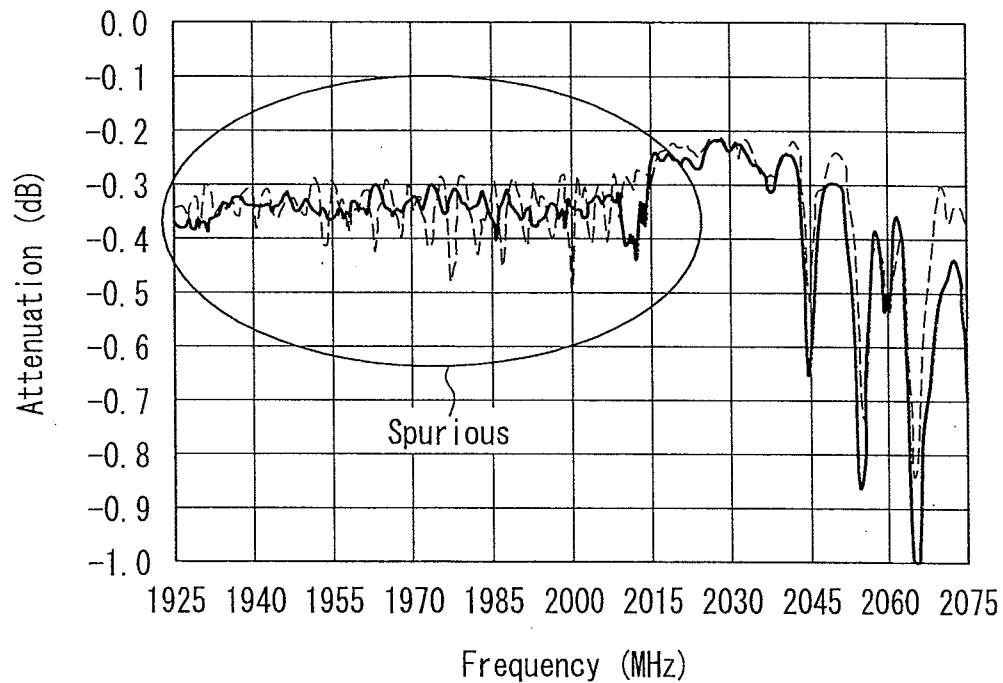
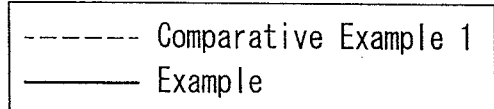


FIG. 5



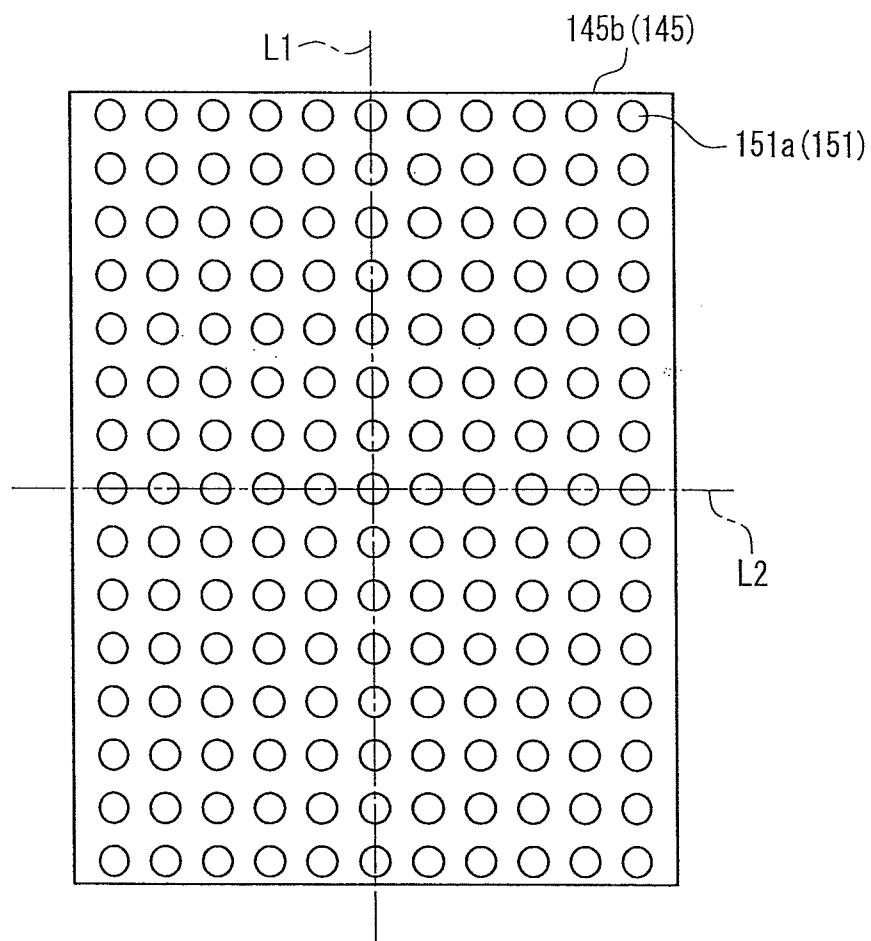


FIG. 6

Resonance characteristics of piezoelectric thin-film resonator

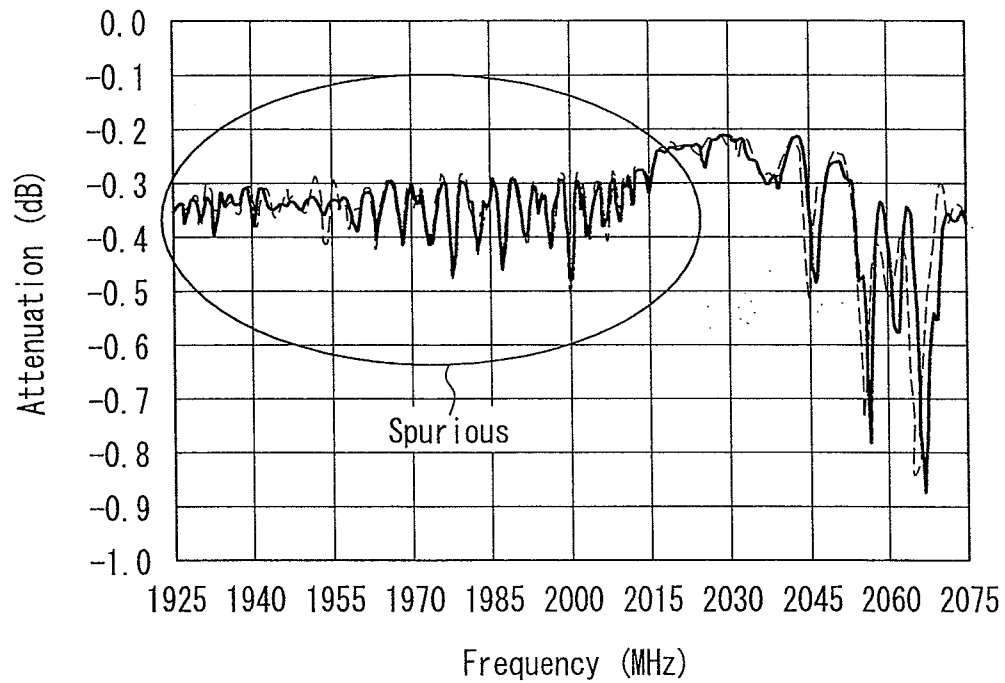
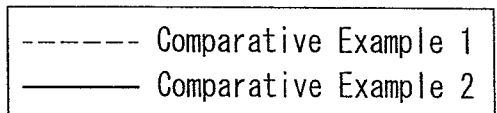


FIG. 7



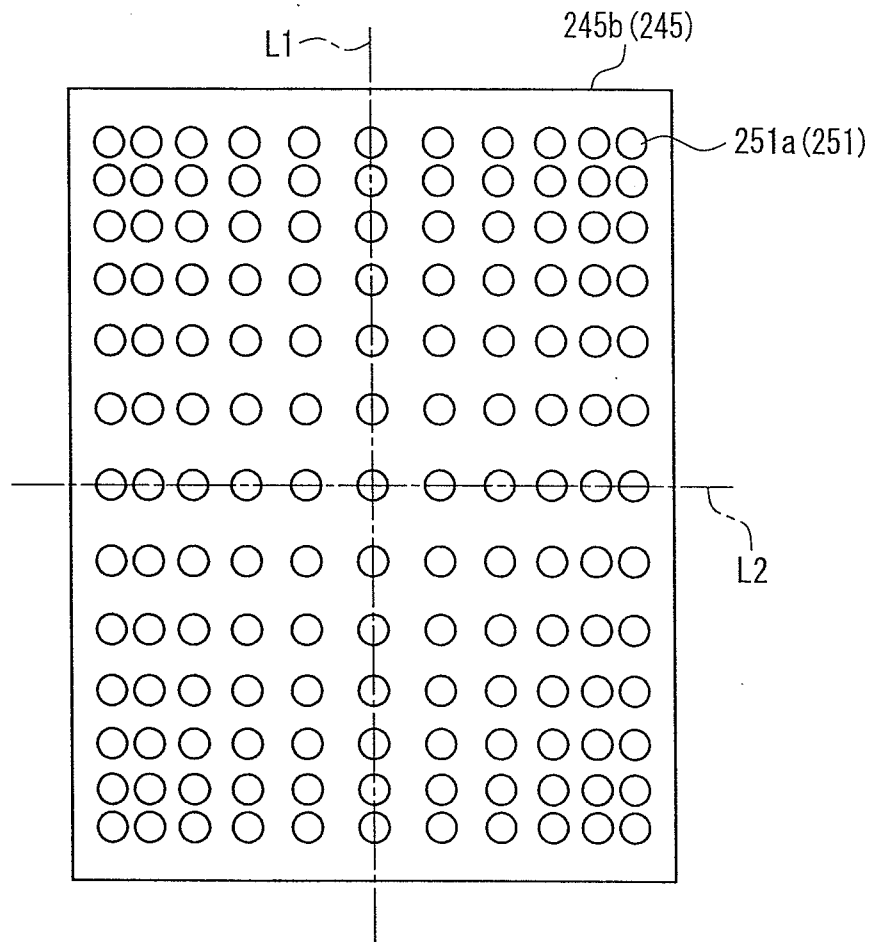


FIG. 8

Resonance characteristics of piezoelectric thin-film resonator

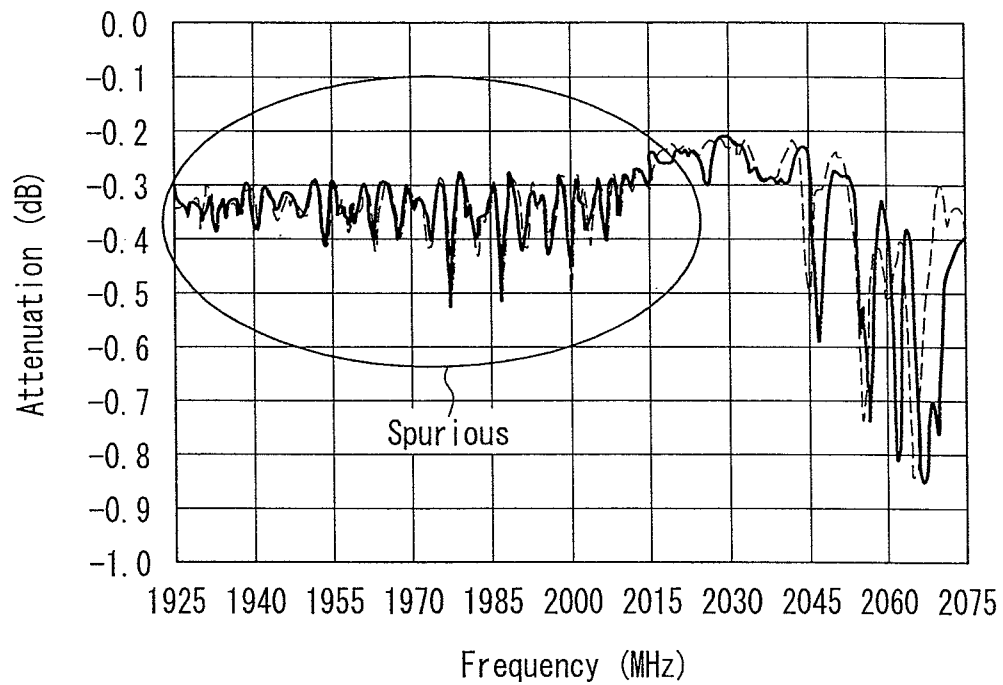
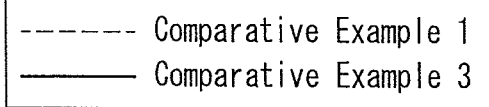


FIG. 9



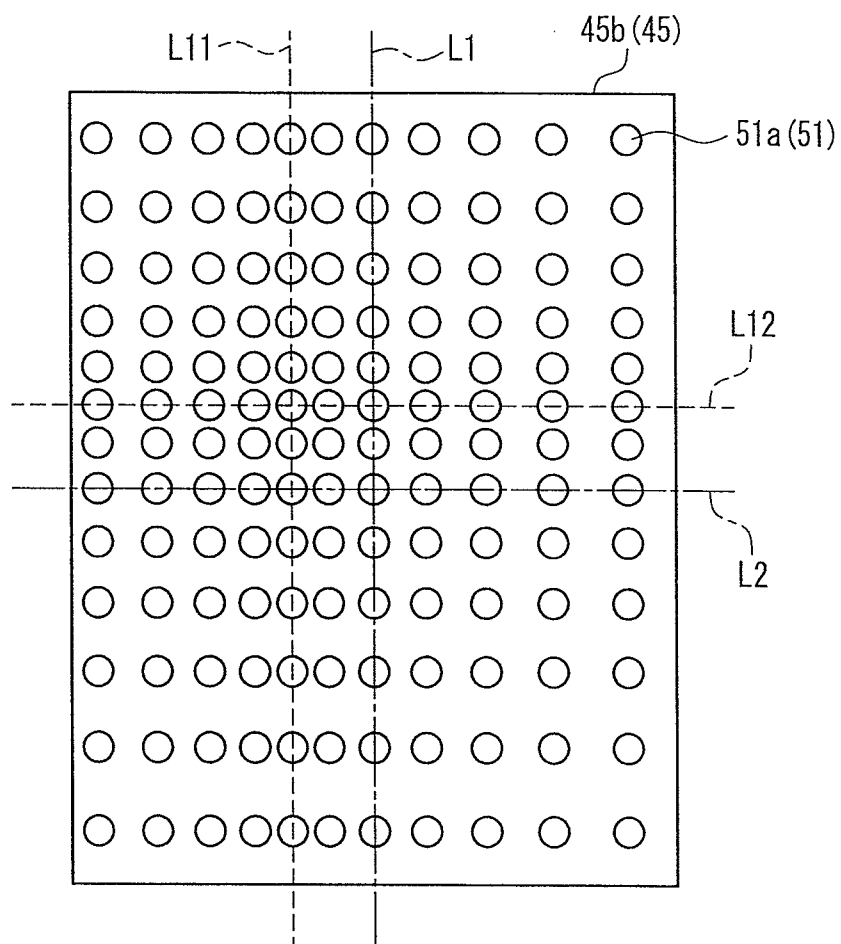


FIG. 10

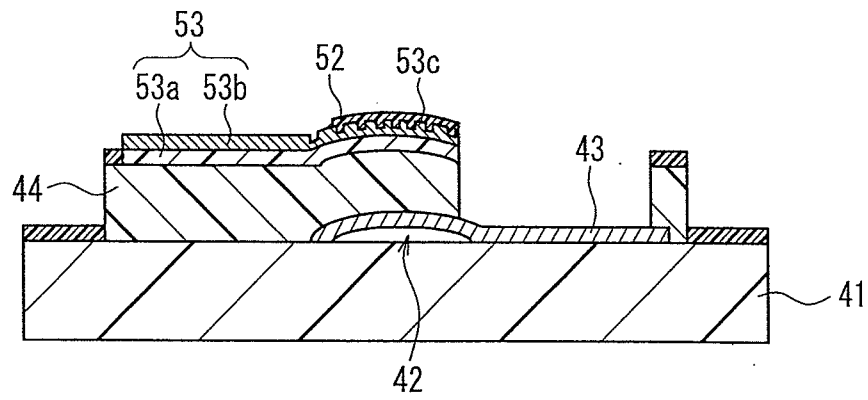


FIG. 11

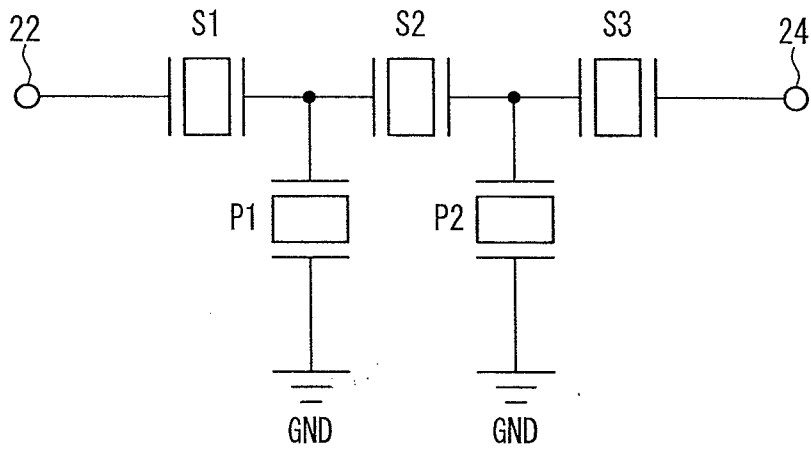


FIG. 12

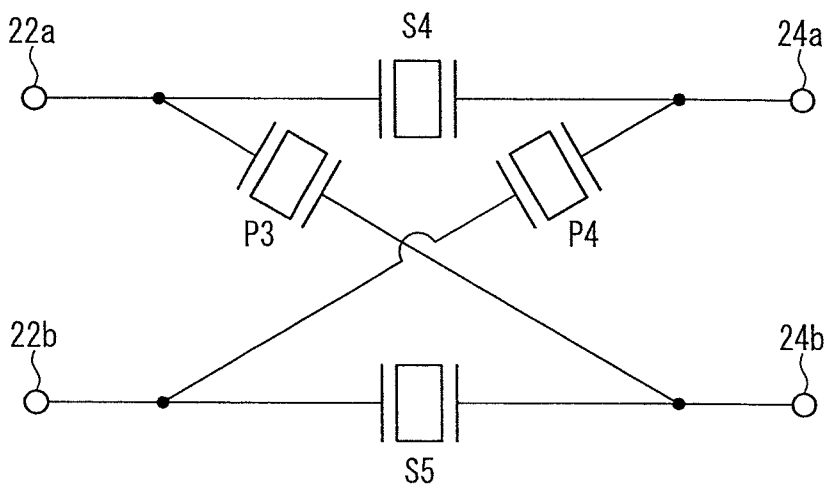


FIG. 13

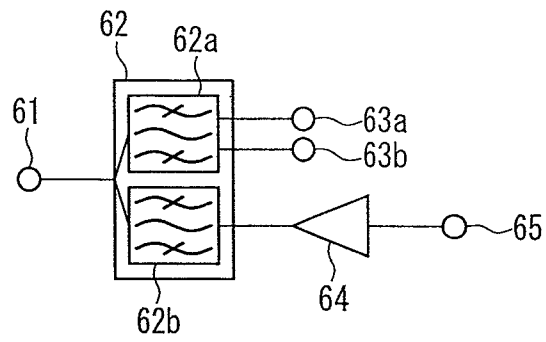


FIG. 14

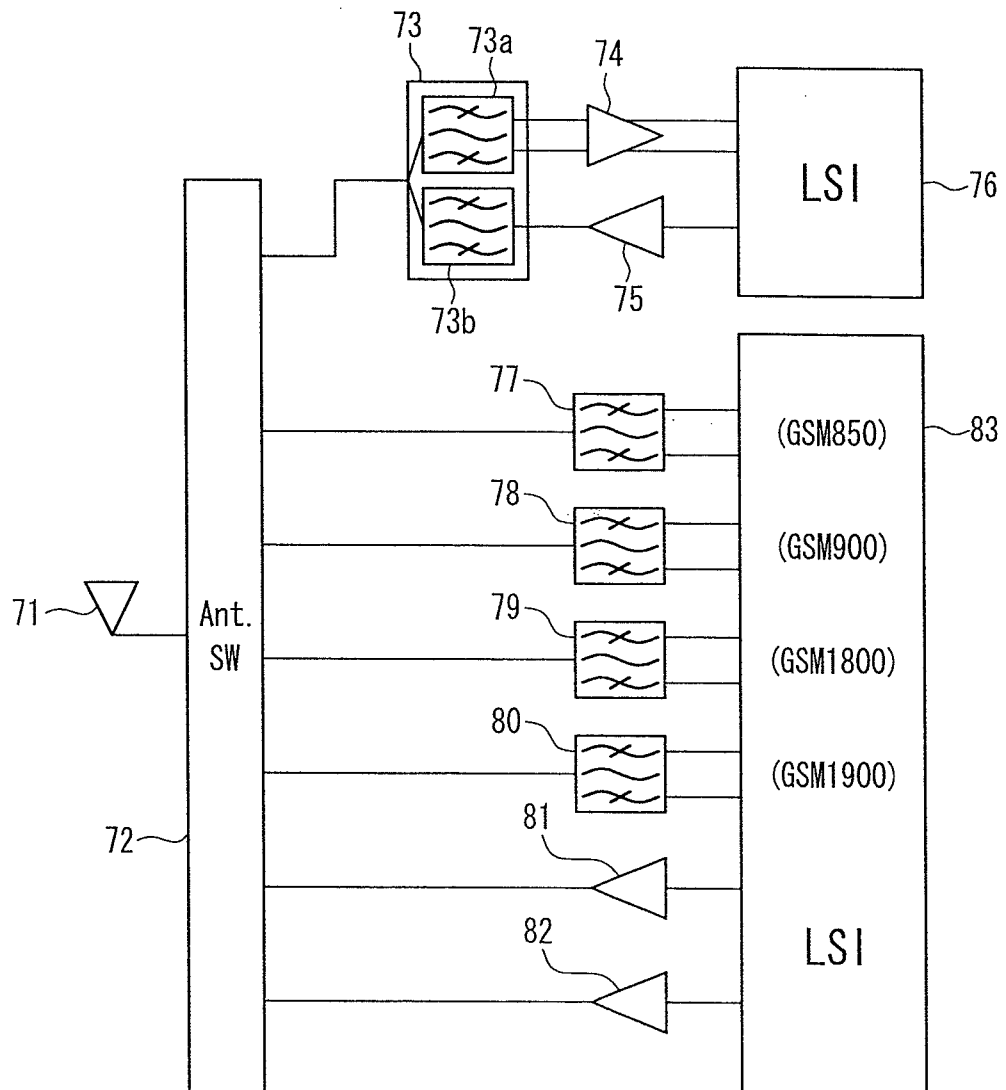


FIG. 15

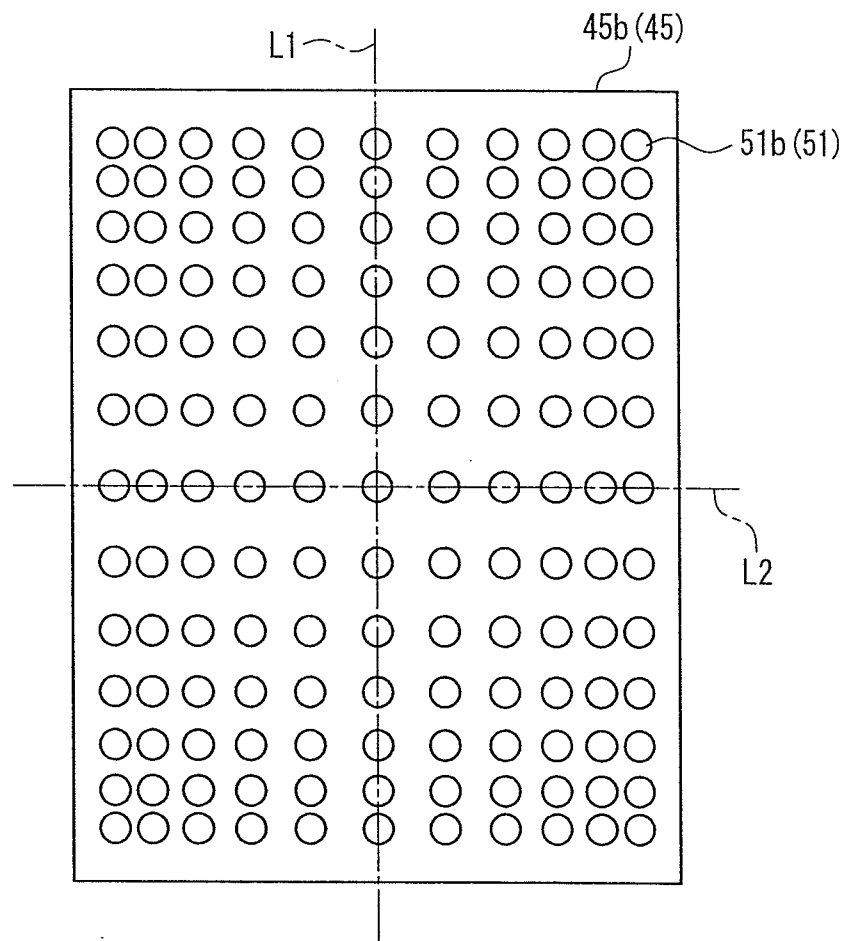


FIG. 16