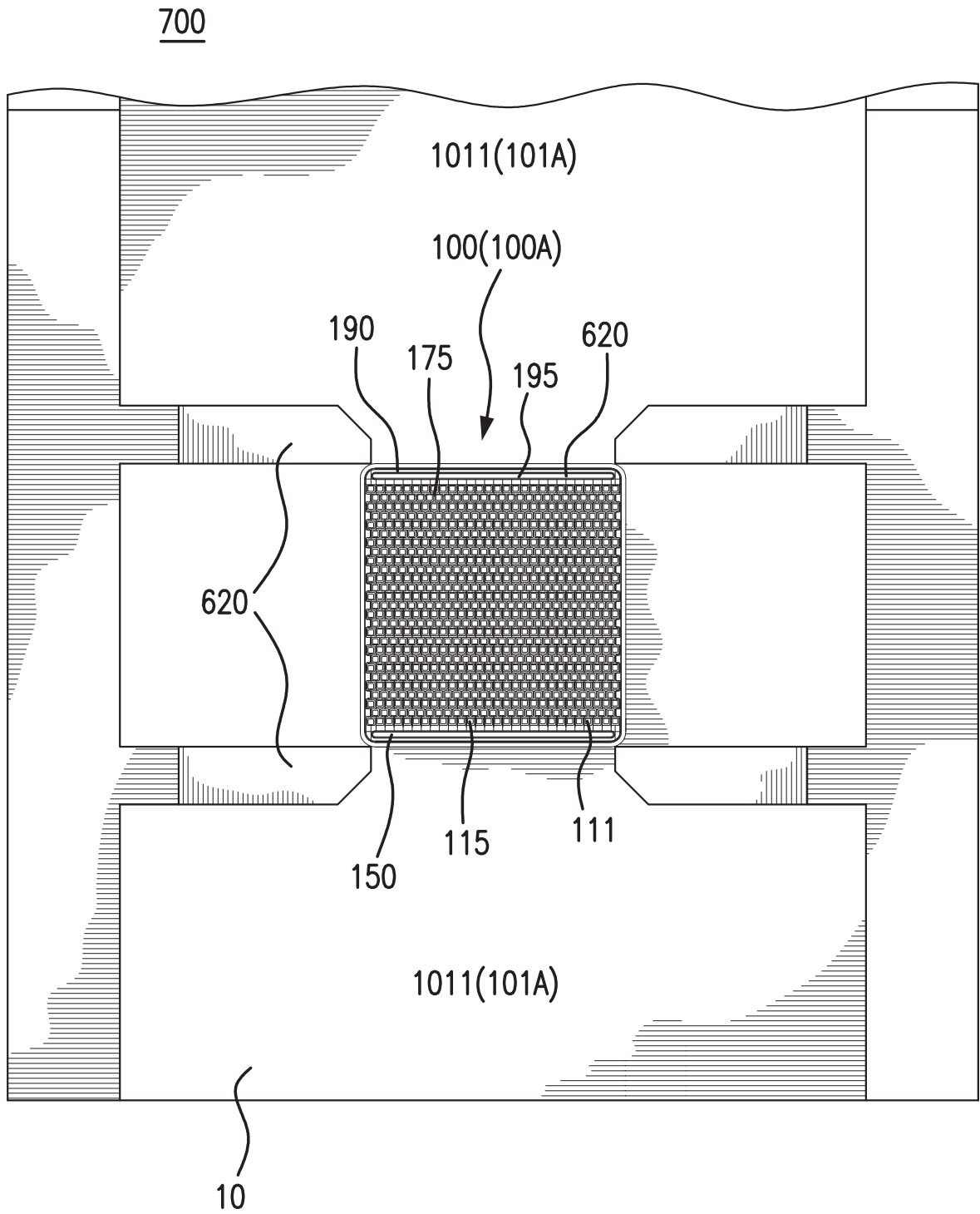


**FIG. 1**

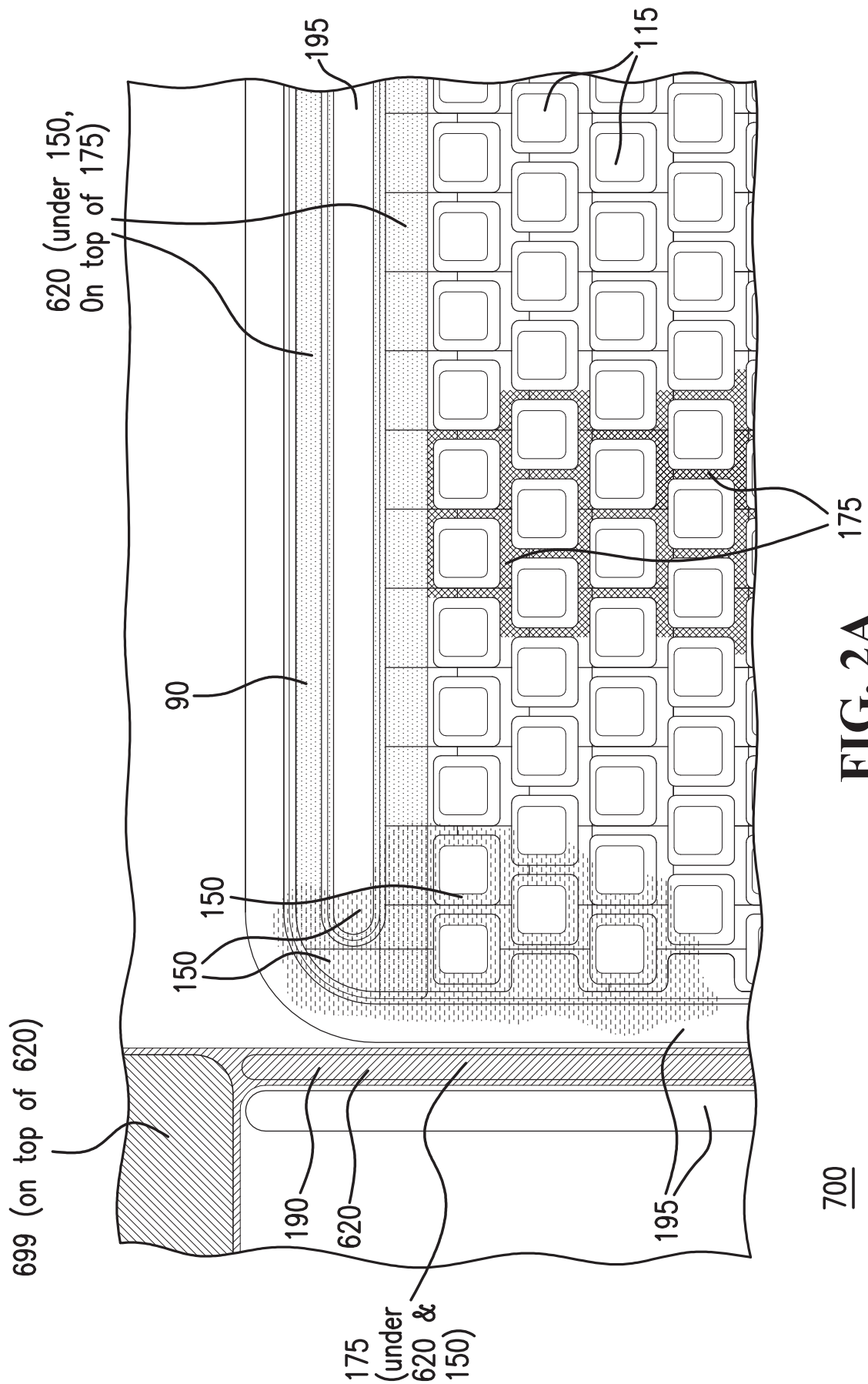
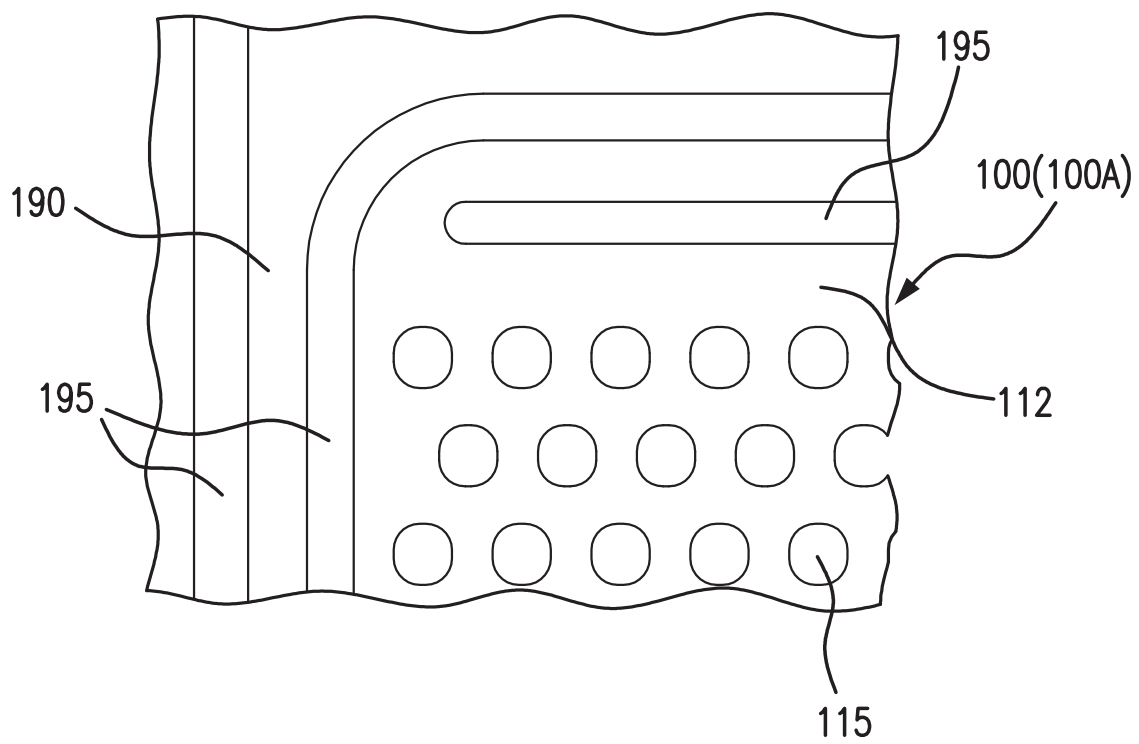


FIG. 2A

**FIG. 2B**

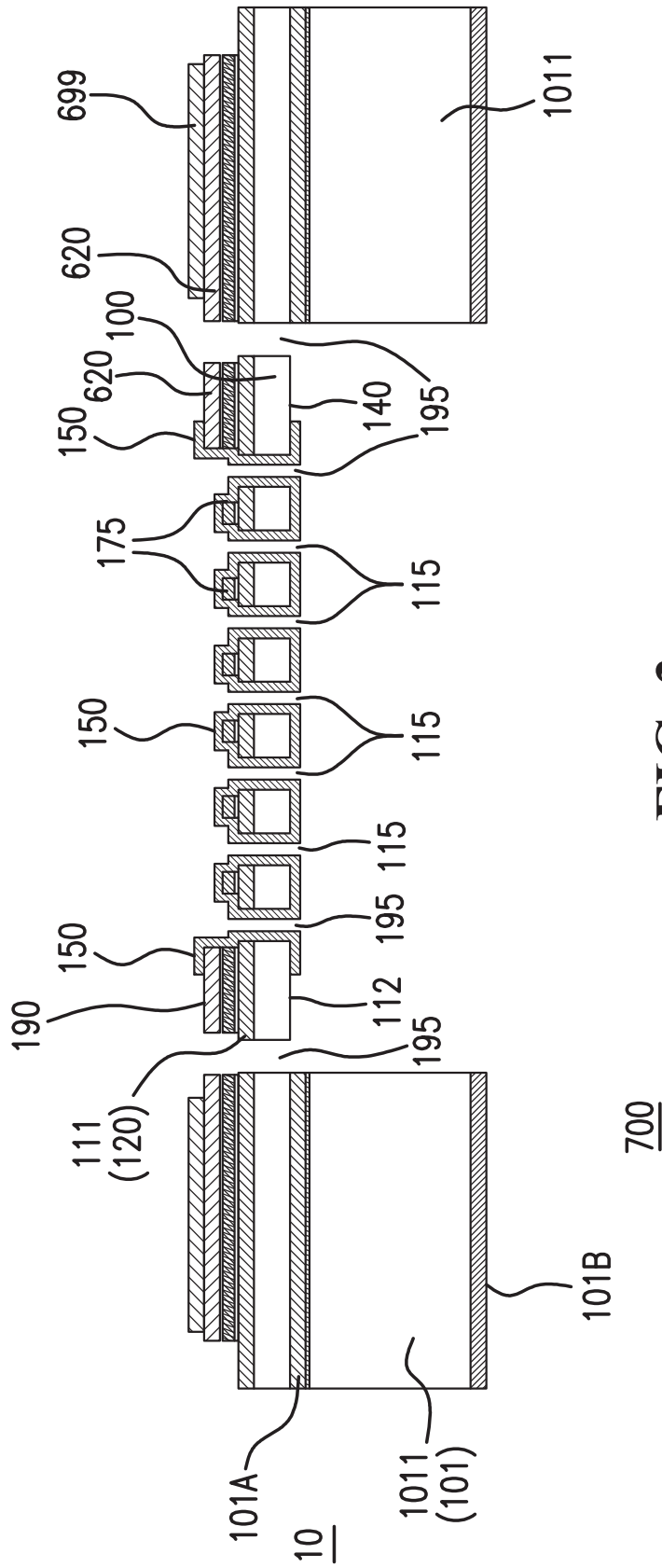


FIG. 3

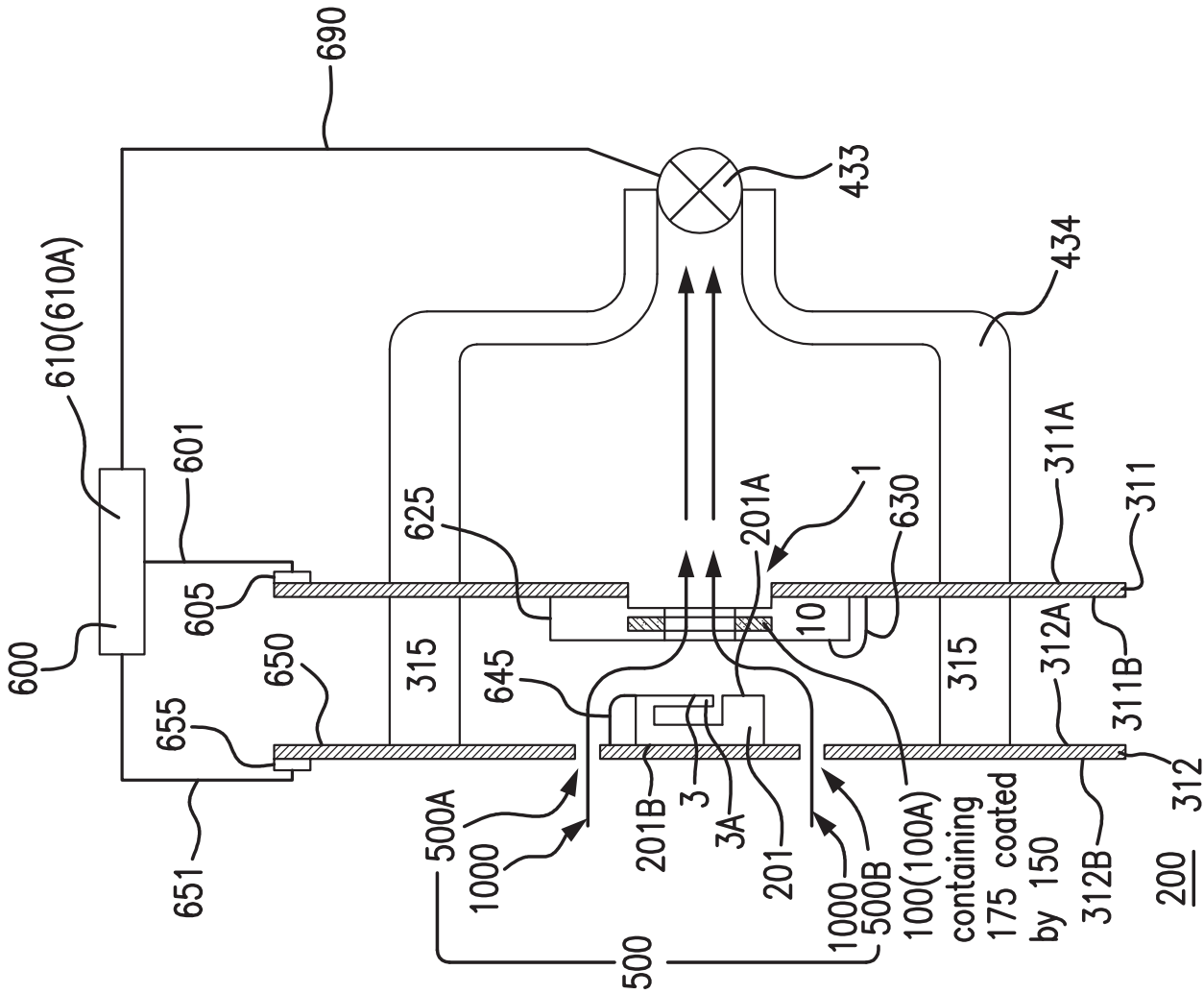


FIG. 4

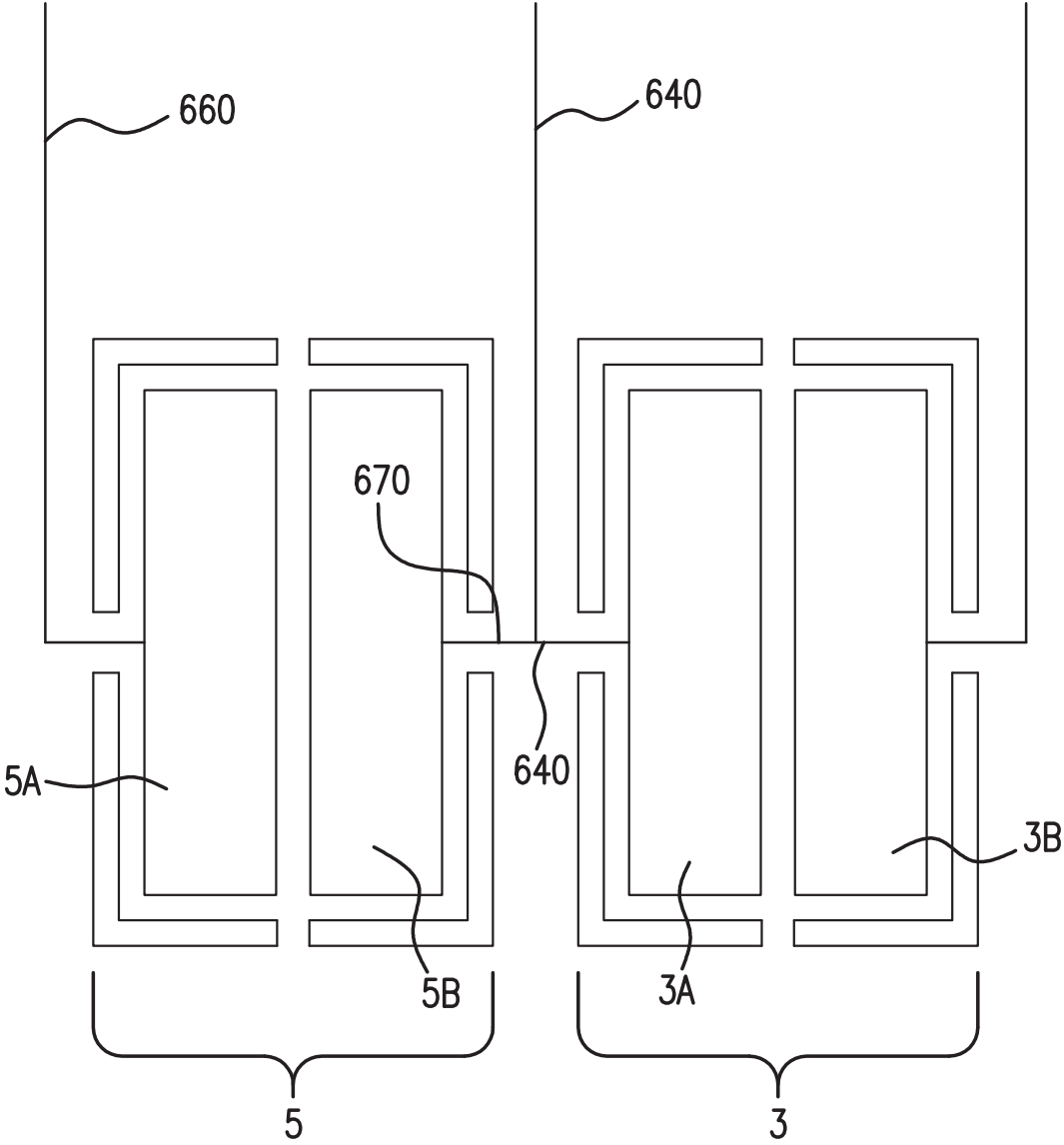
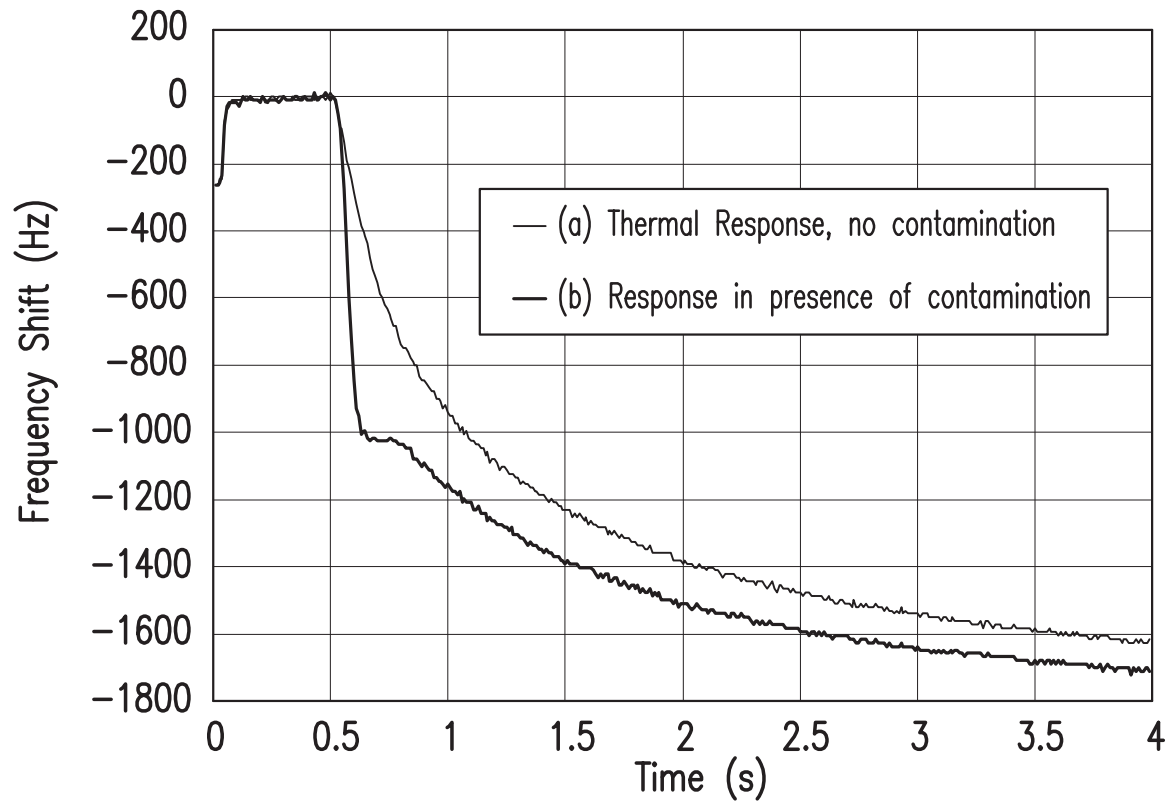
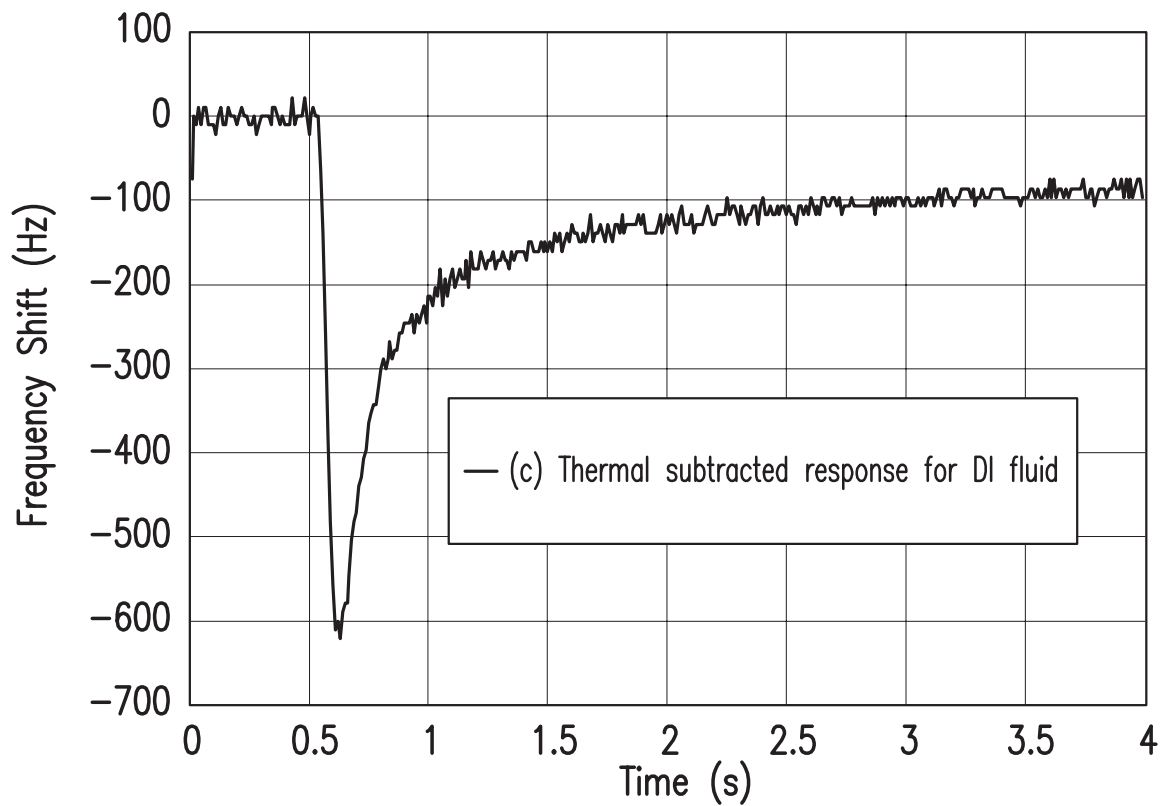
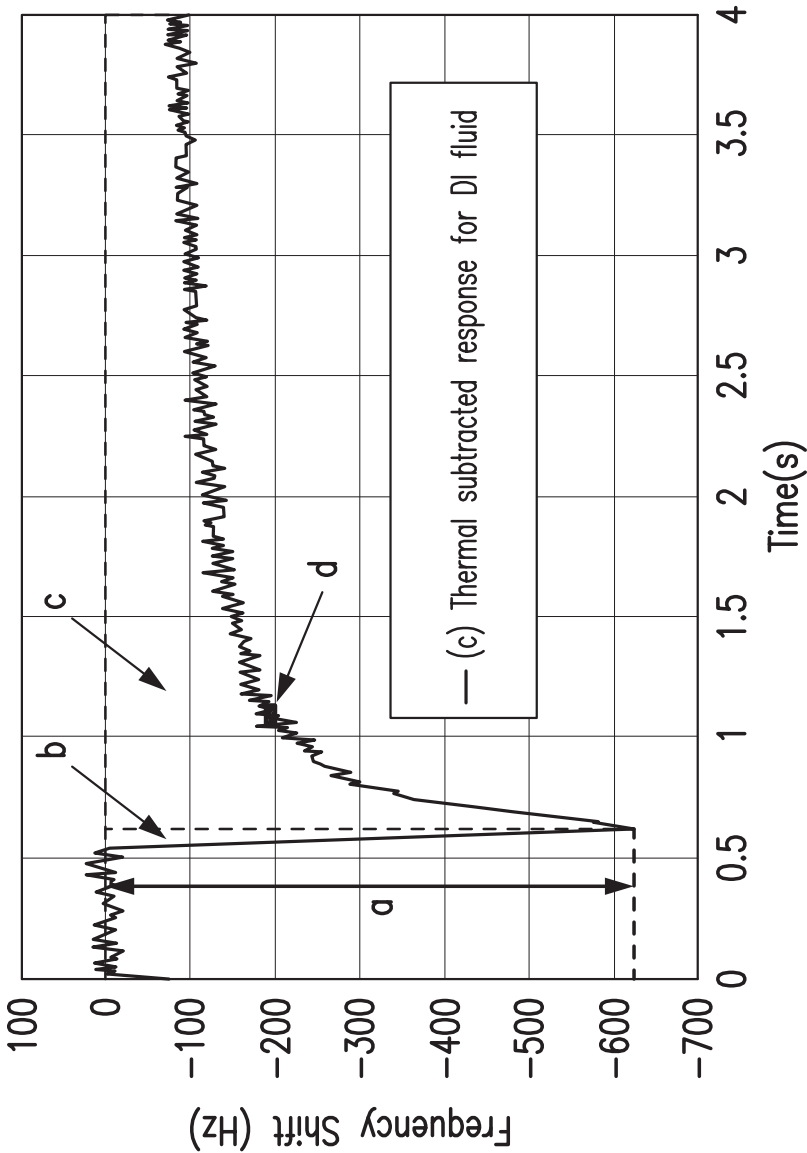


FIG. 5

**FIG. 6****FIG. 7**

Features are calculated from the "thermal subtracted responses"



- a) Maximum frequency shift (MFS): the MFS seen during the response
- b) Sum before peak (SB): area under the curve before the MFS
- c) Sum after peak (SA): area under the curve after the MFS
- d) Segment #5 (S5): the average of the 37th thru 46th frequency measurements following the MFS

FIG. 8

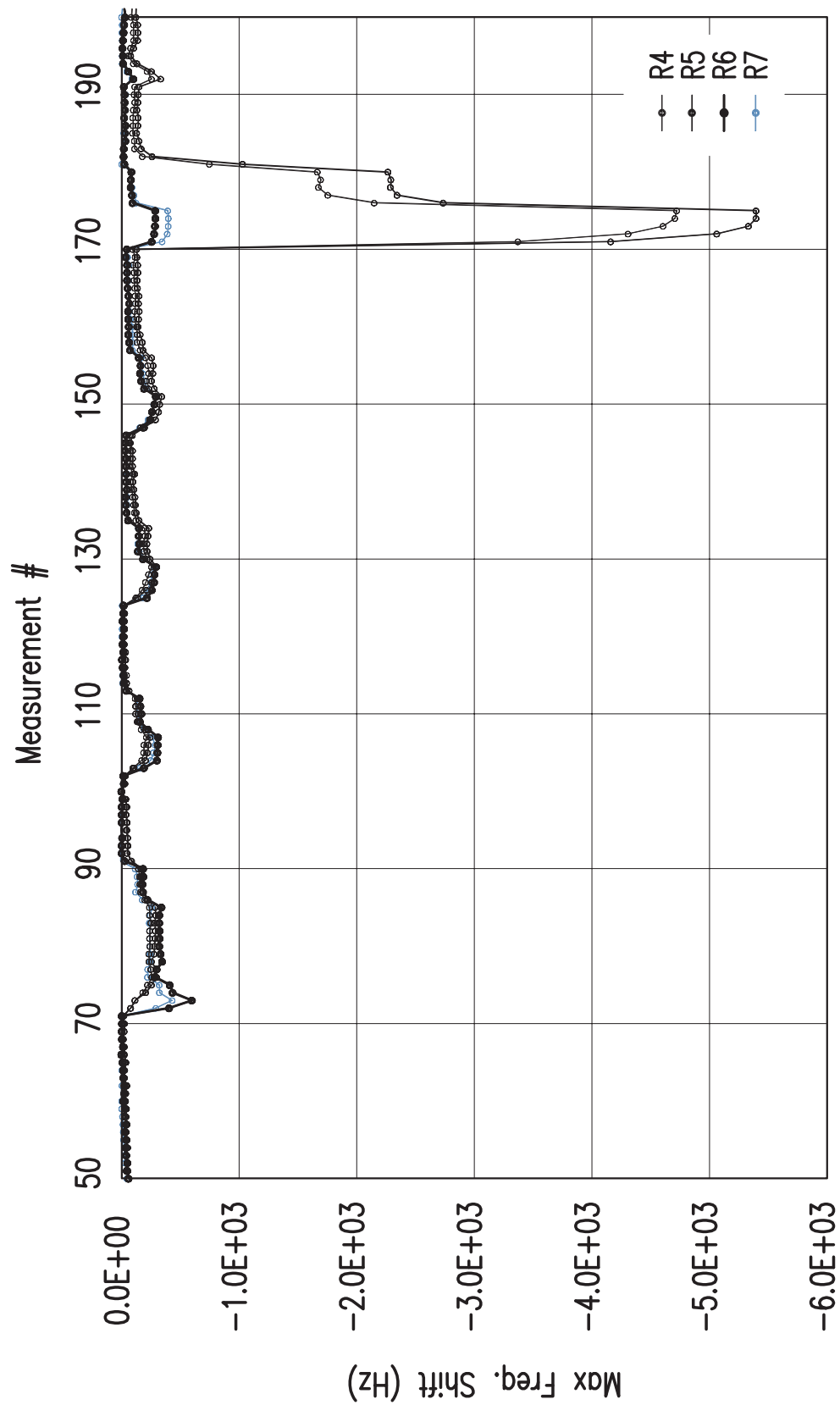


FIG. 9

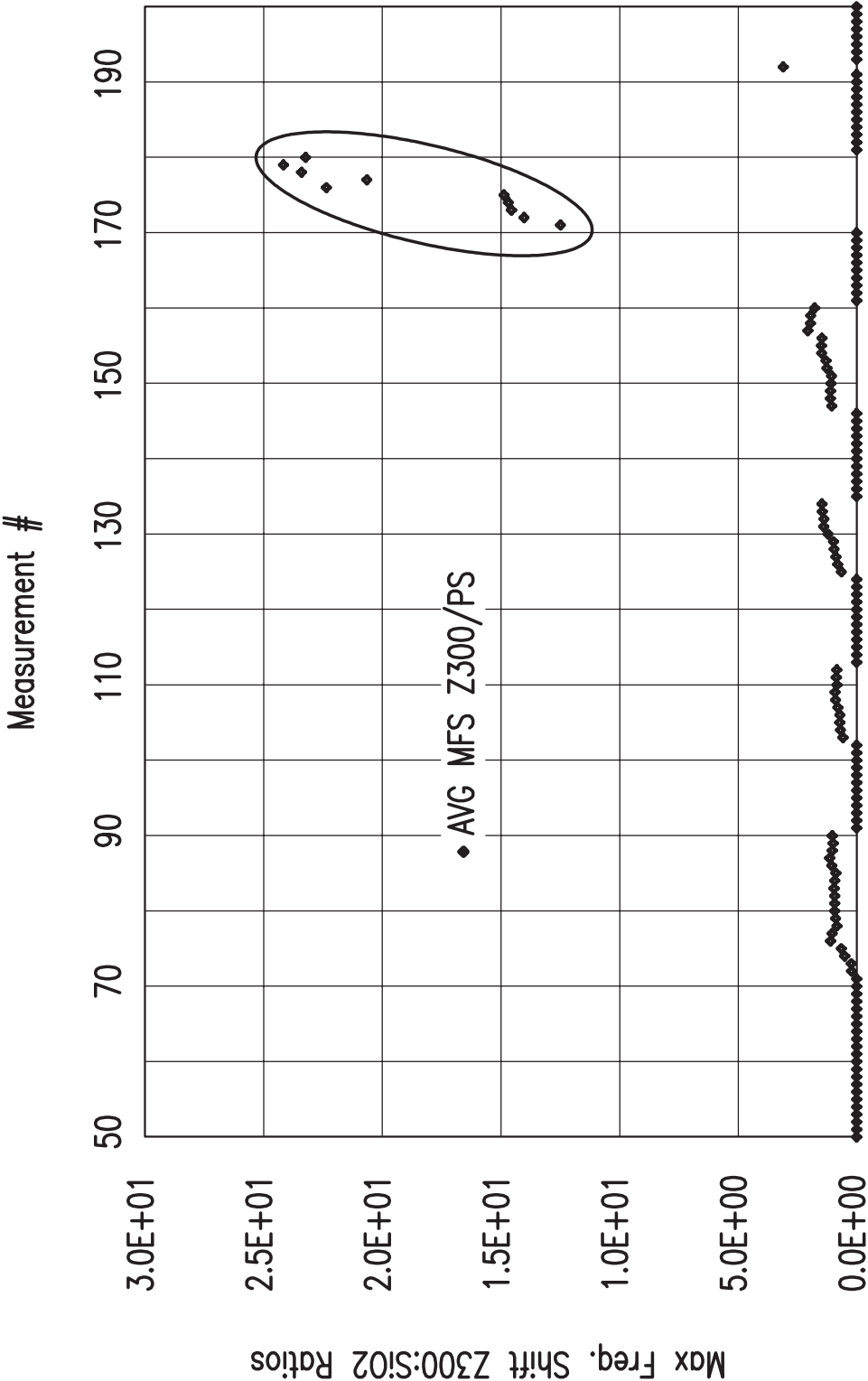


FIG. 10