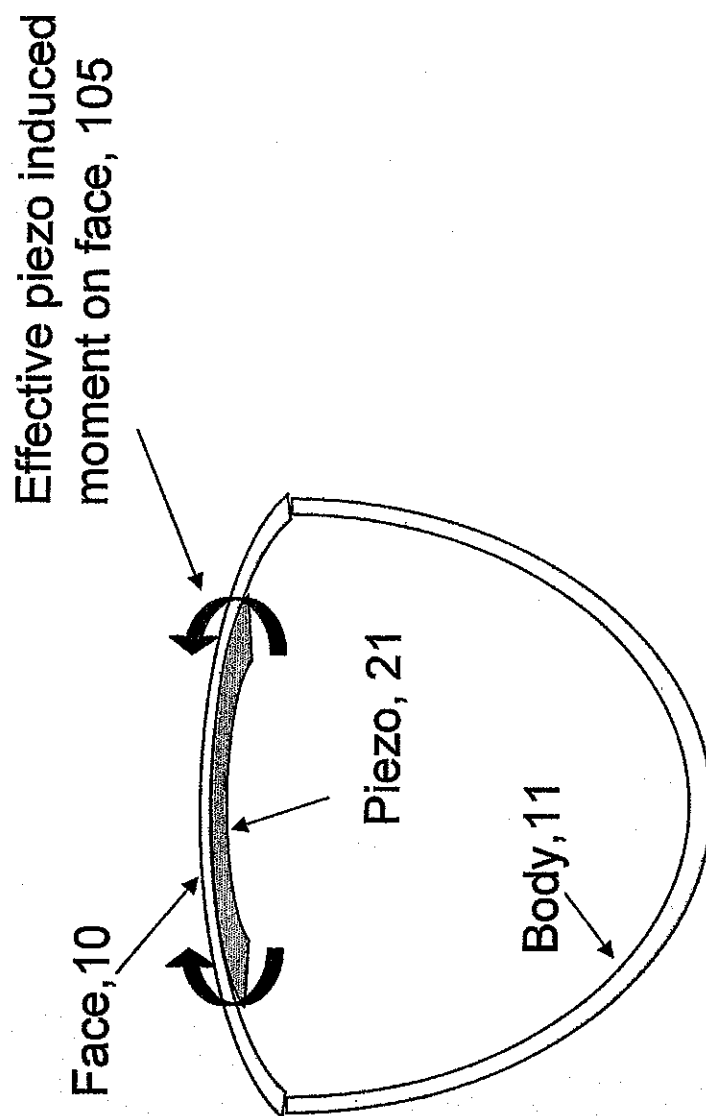
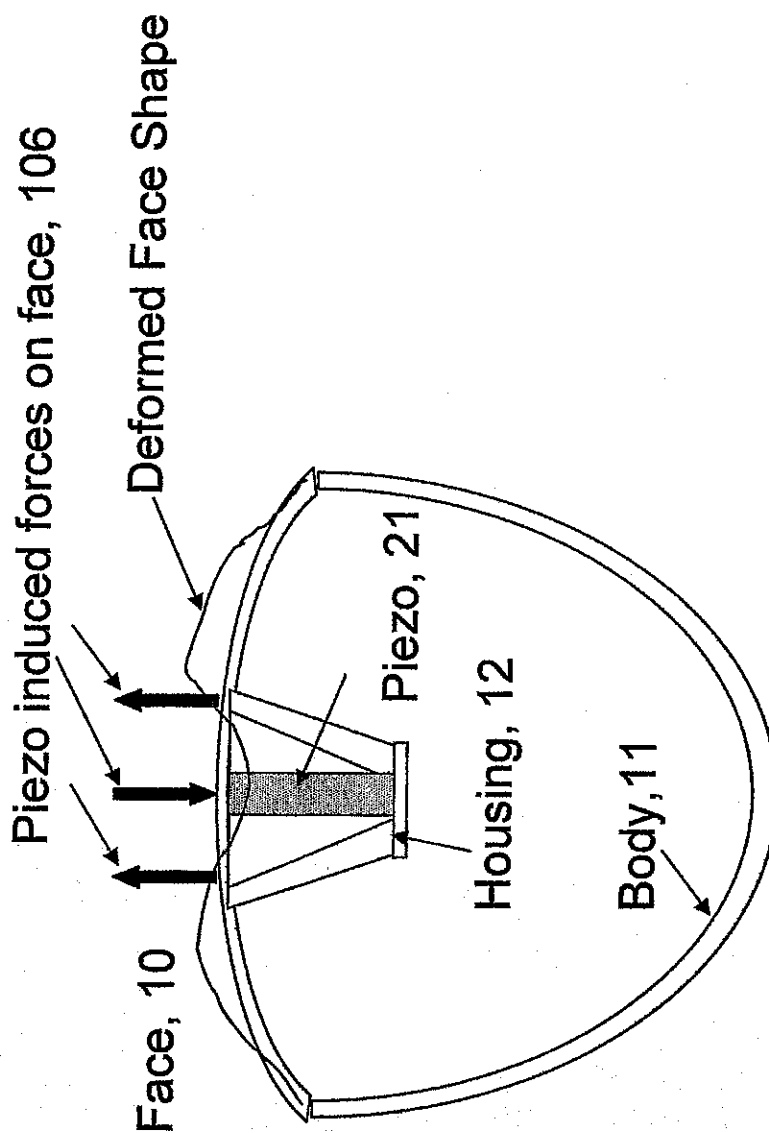
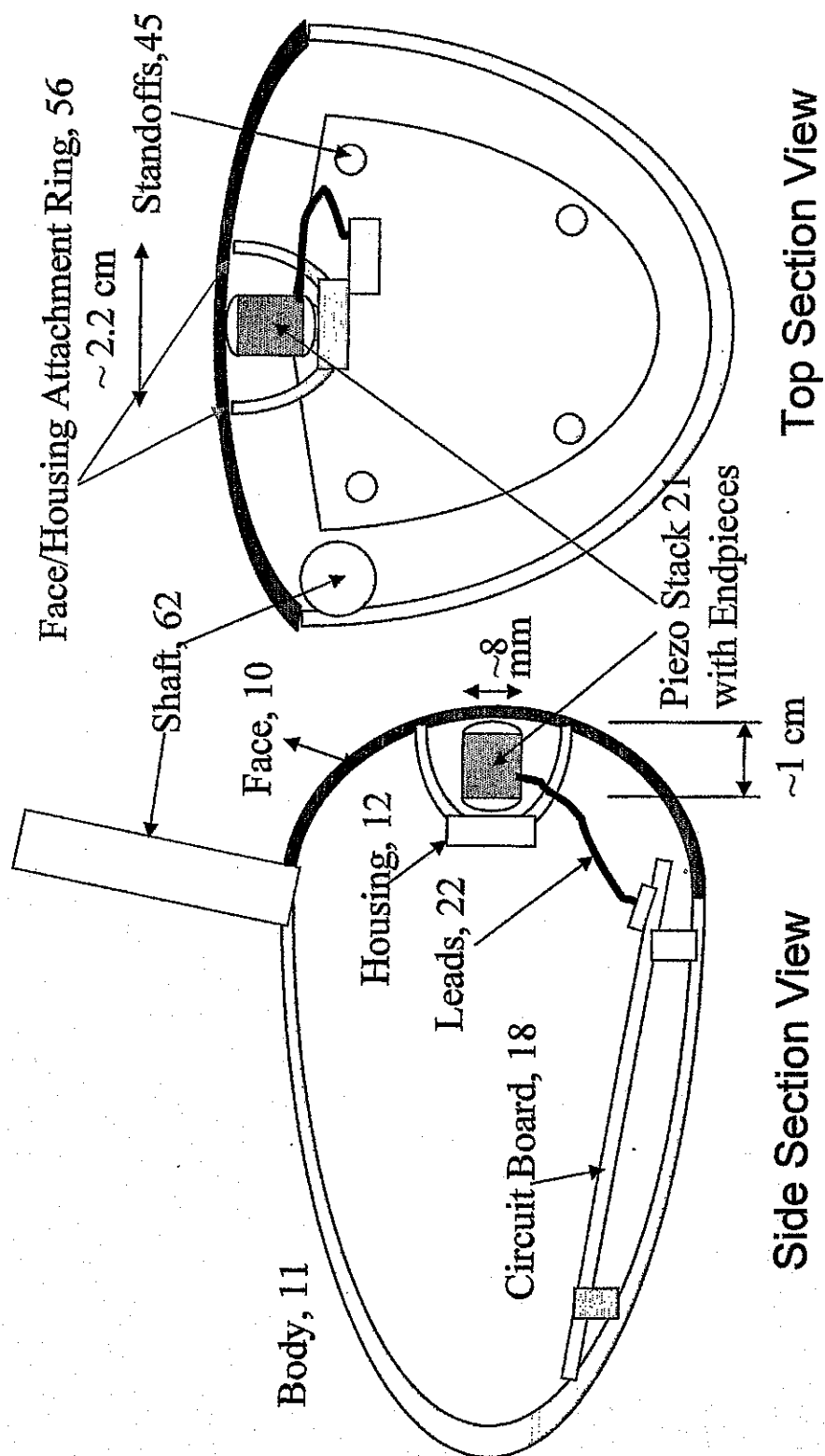
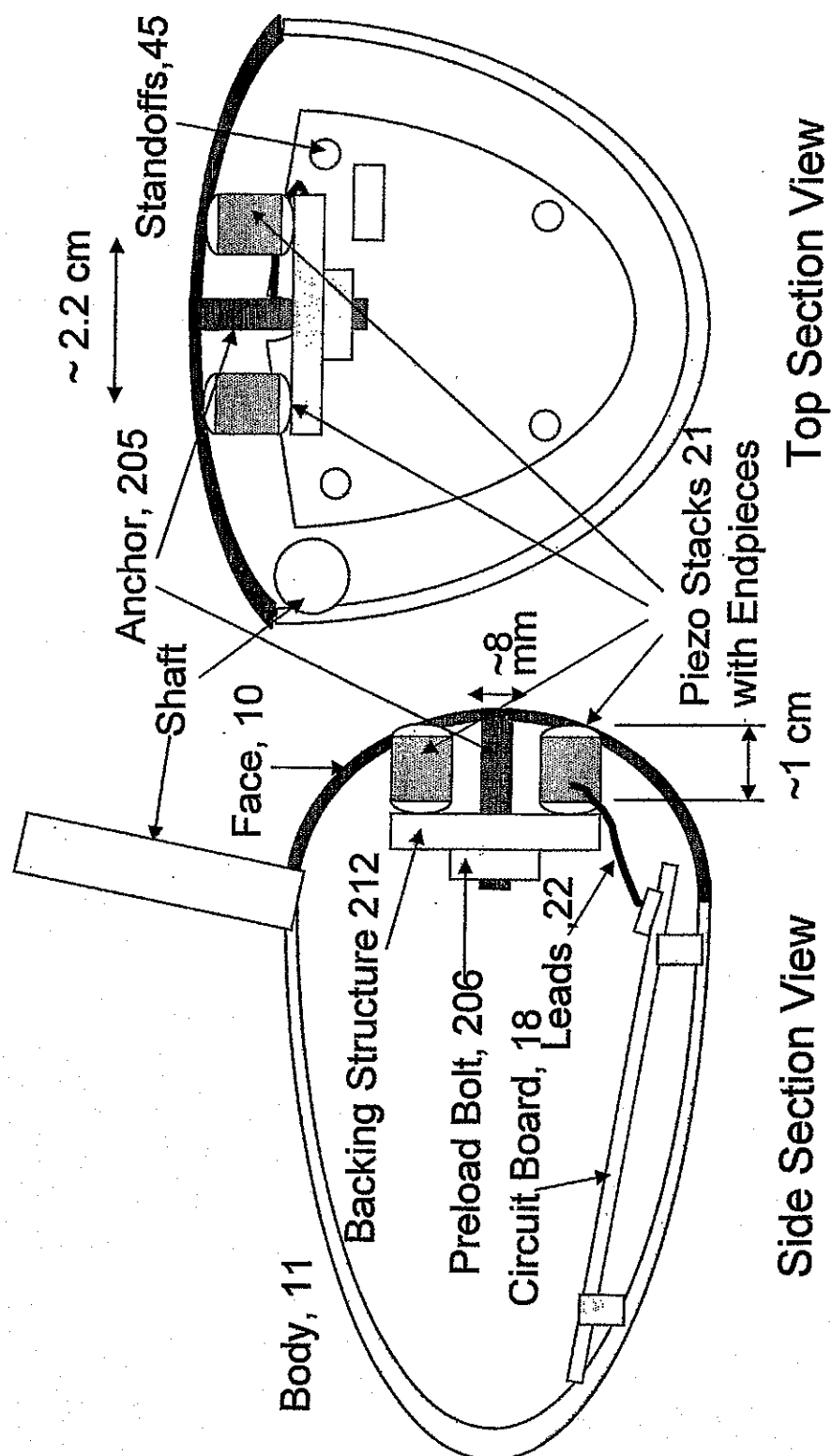


**FIG. 1**

**FIG. 2a**





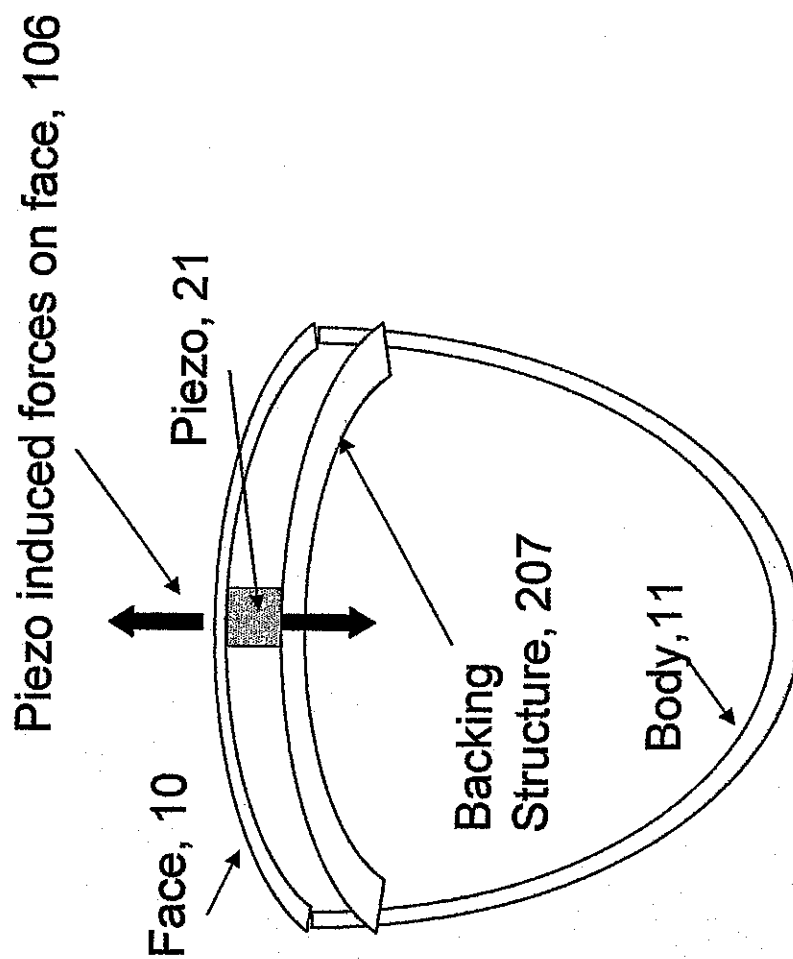
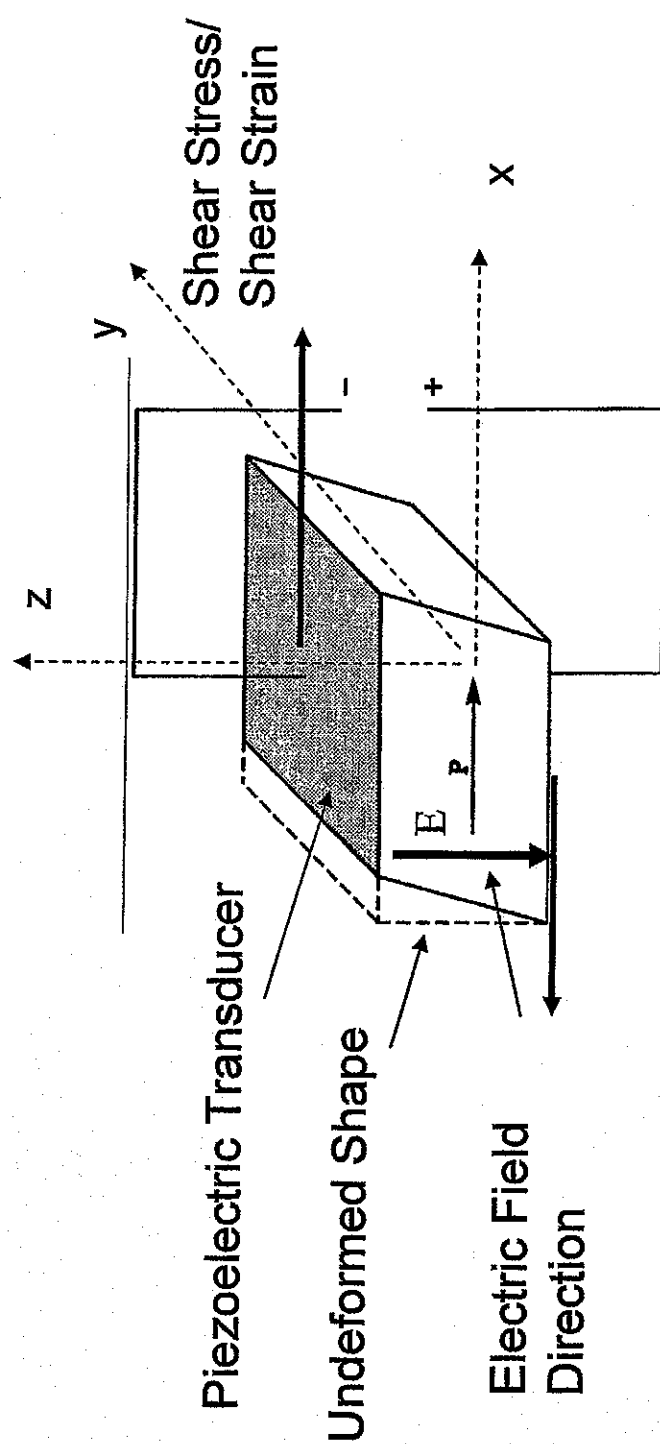


FIG. 4



Piezoelectric Shear Mode of Operation

FIG. 5a

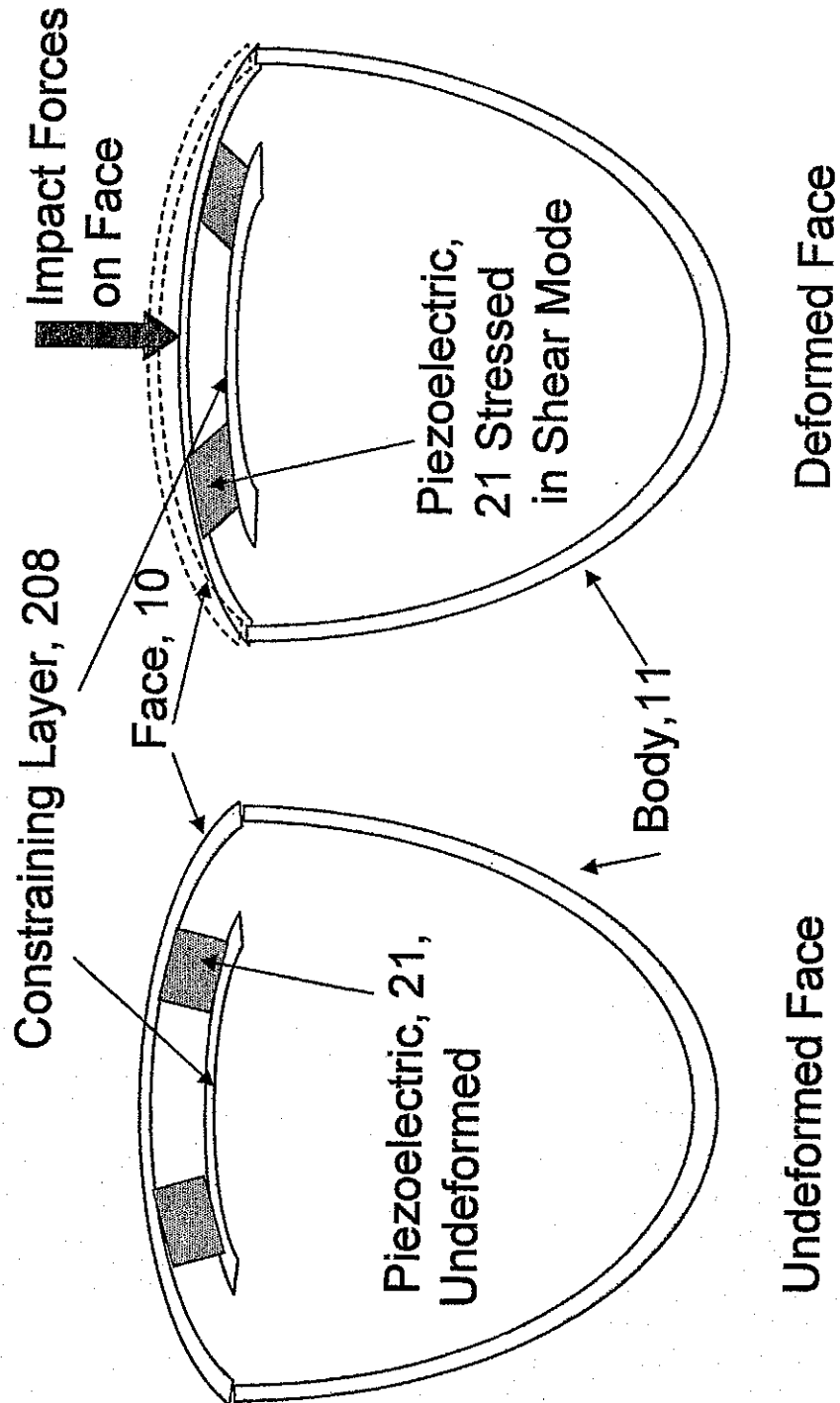
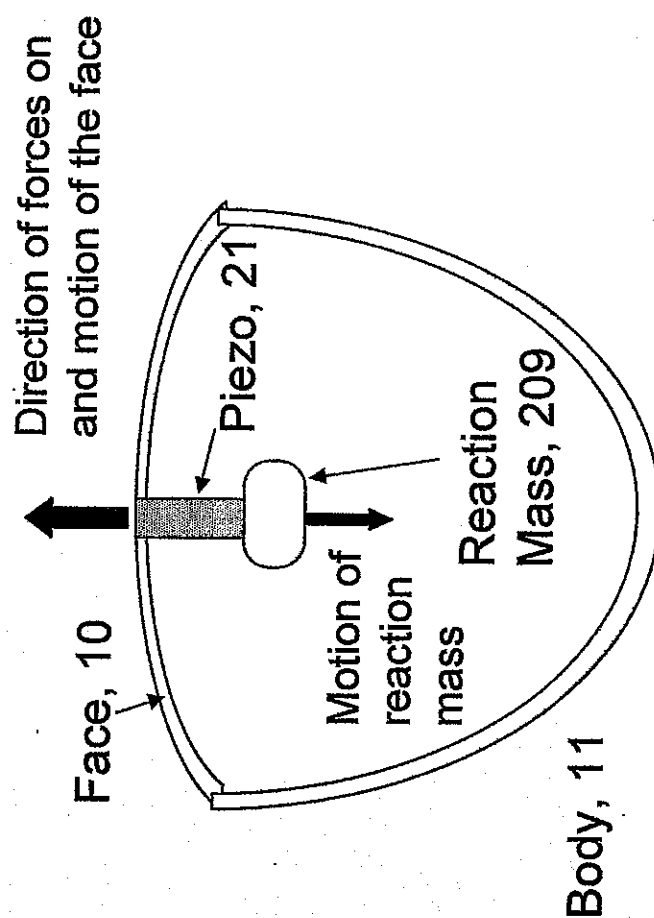
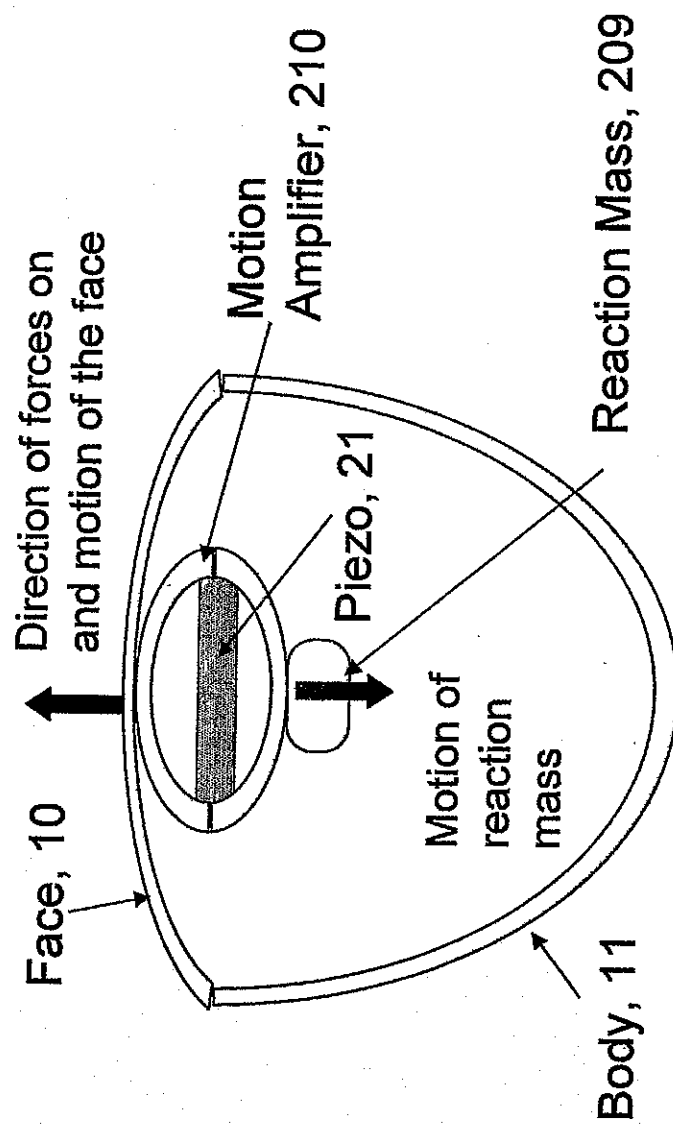


FIG. 5b

**FIG. 6**

**FIG. 7**

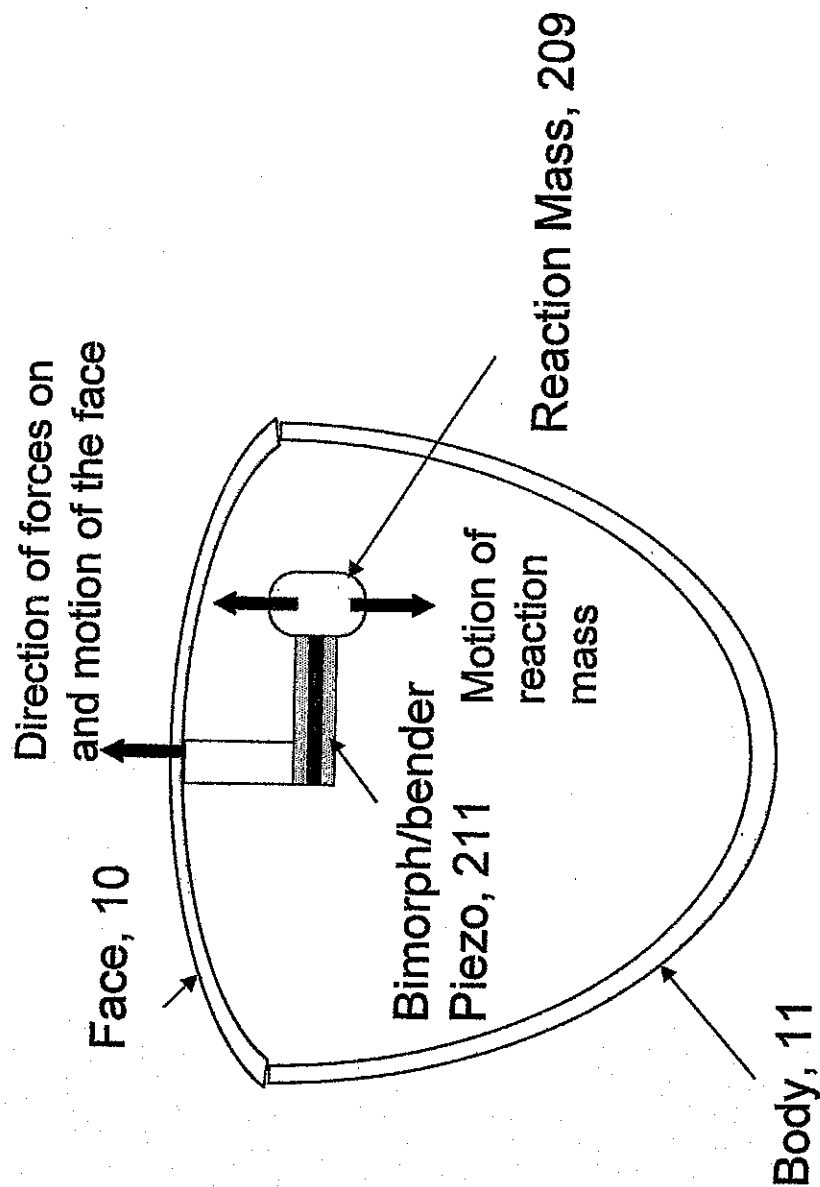


FIG. 8

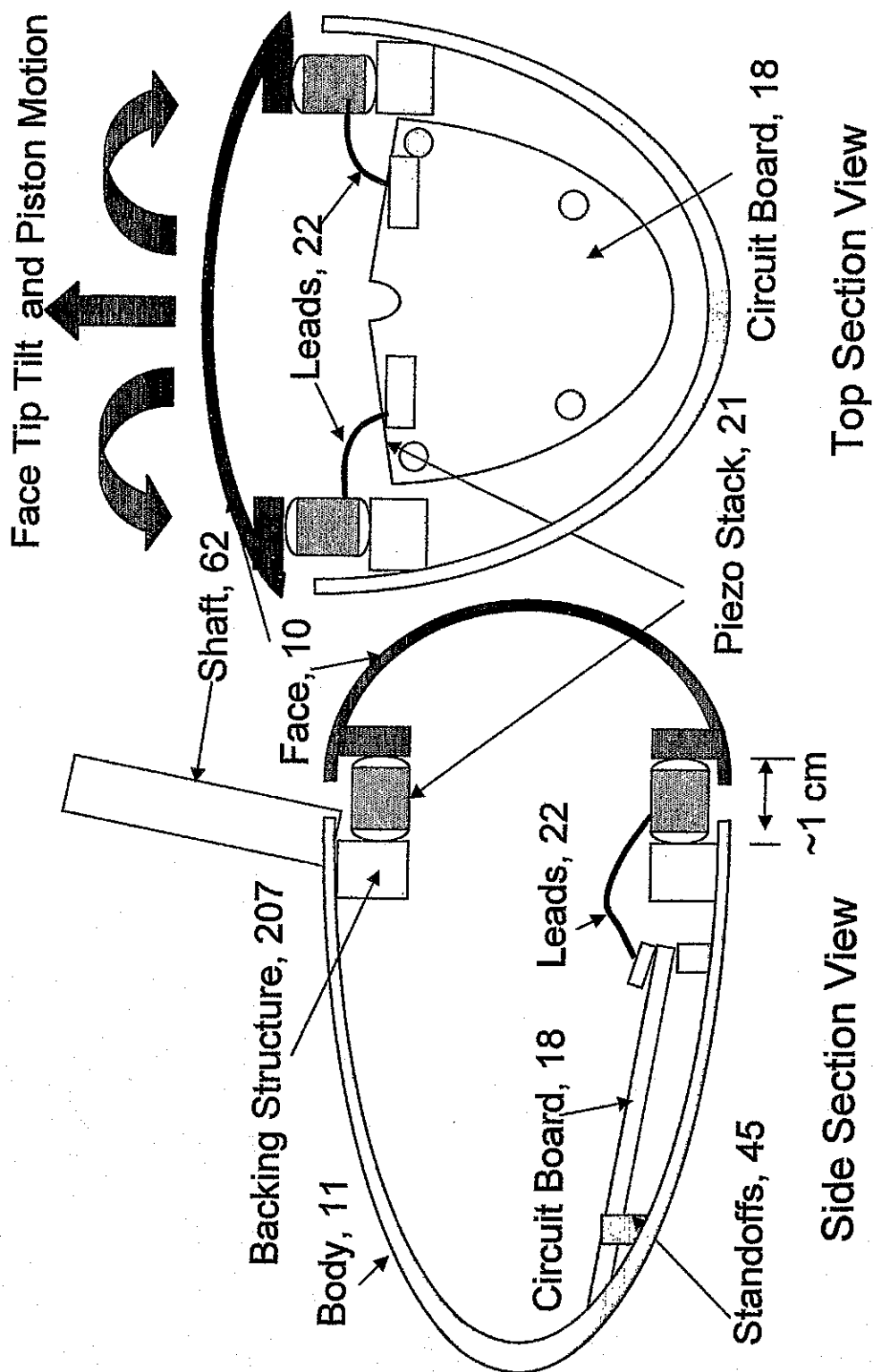
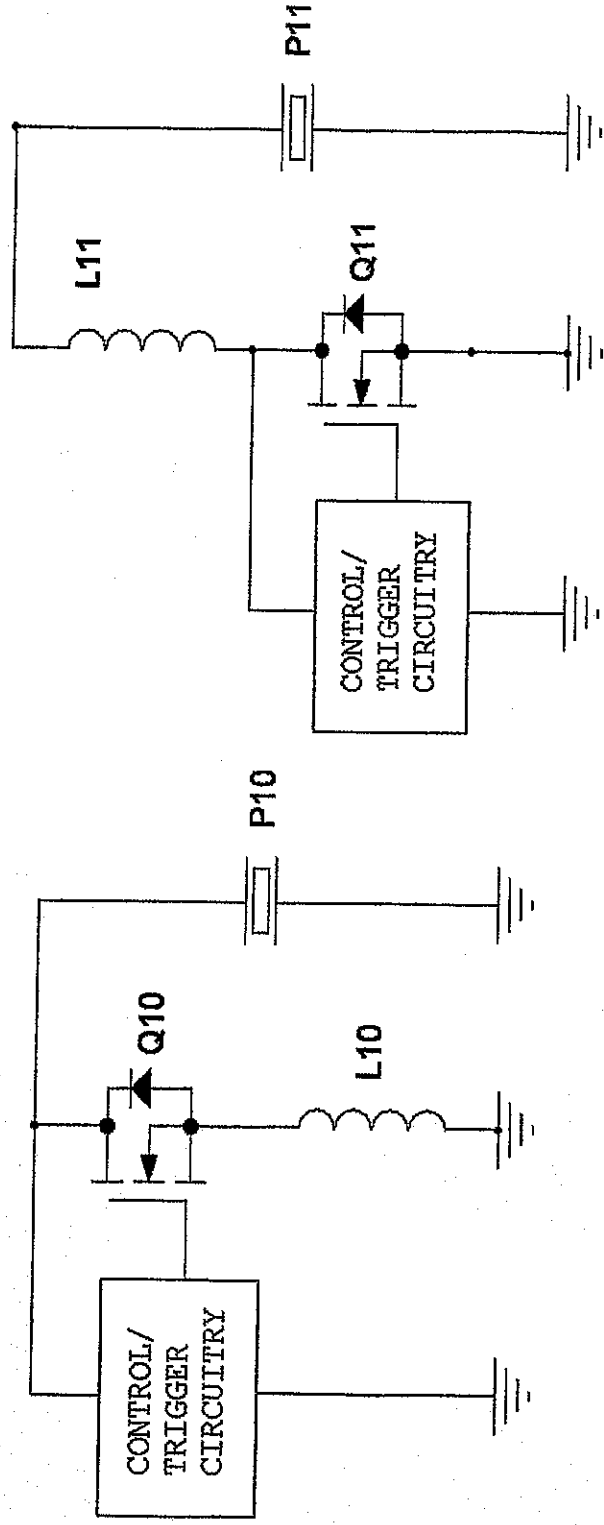


FIG. 9

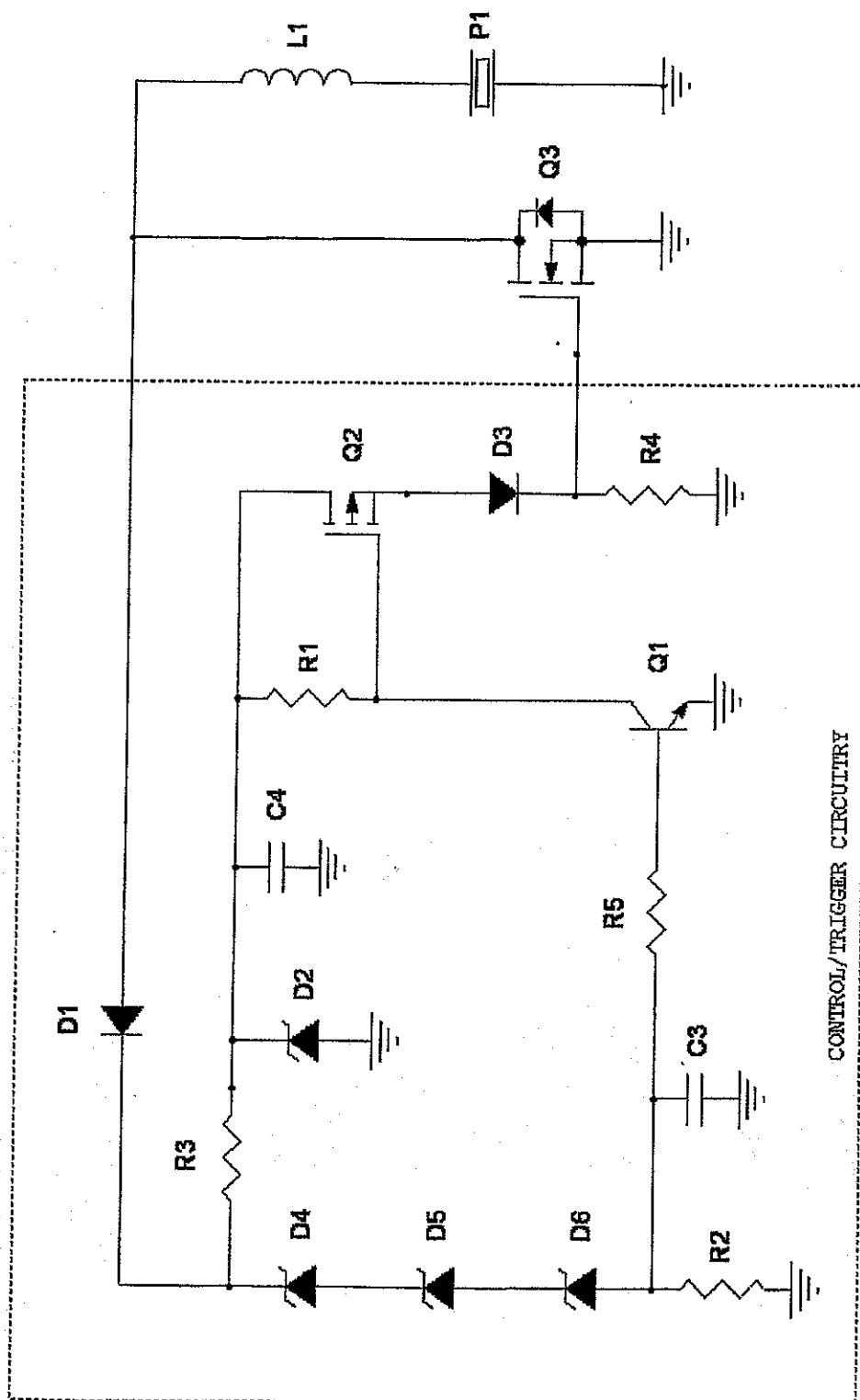


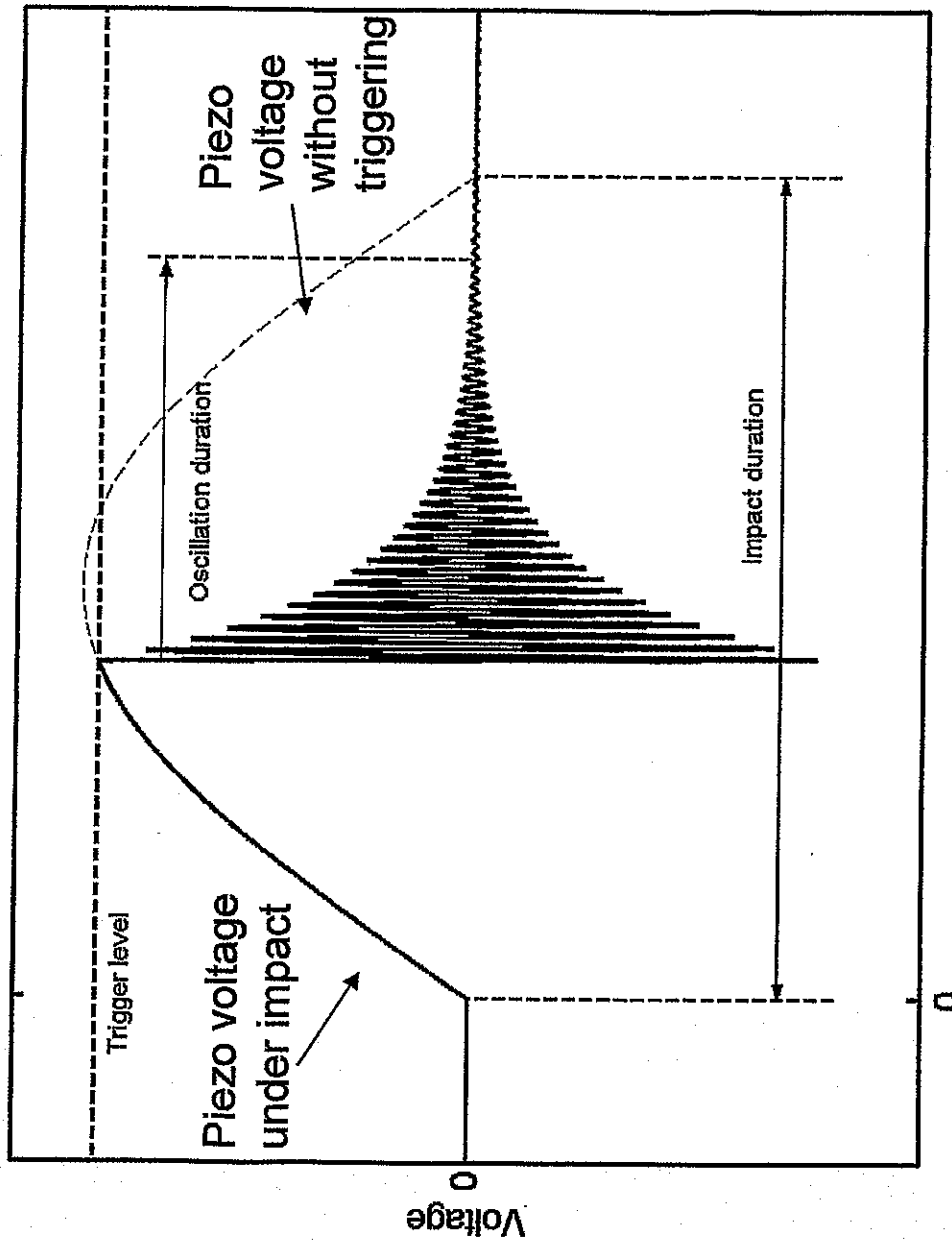
A - High Side Switch

B - Low Side Switch

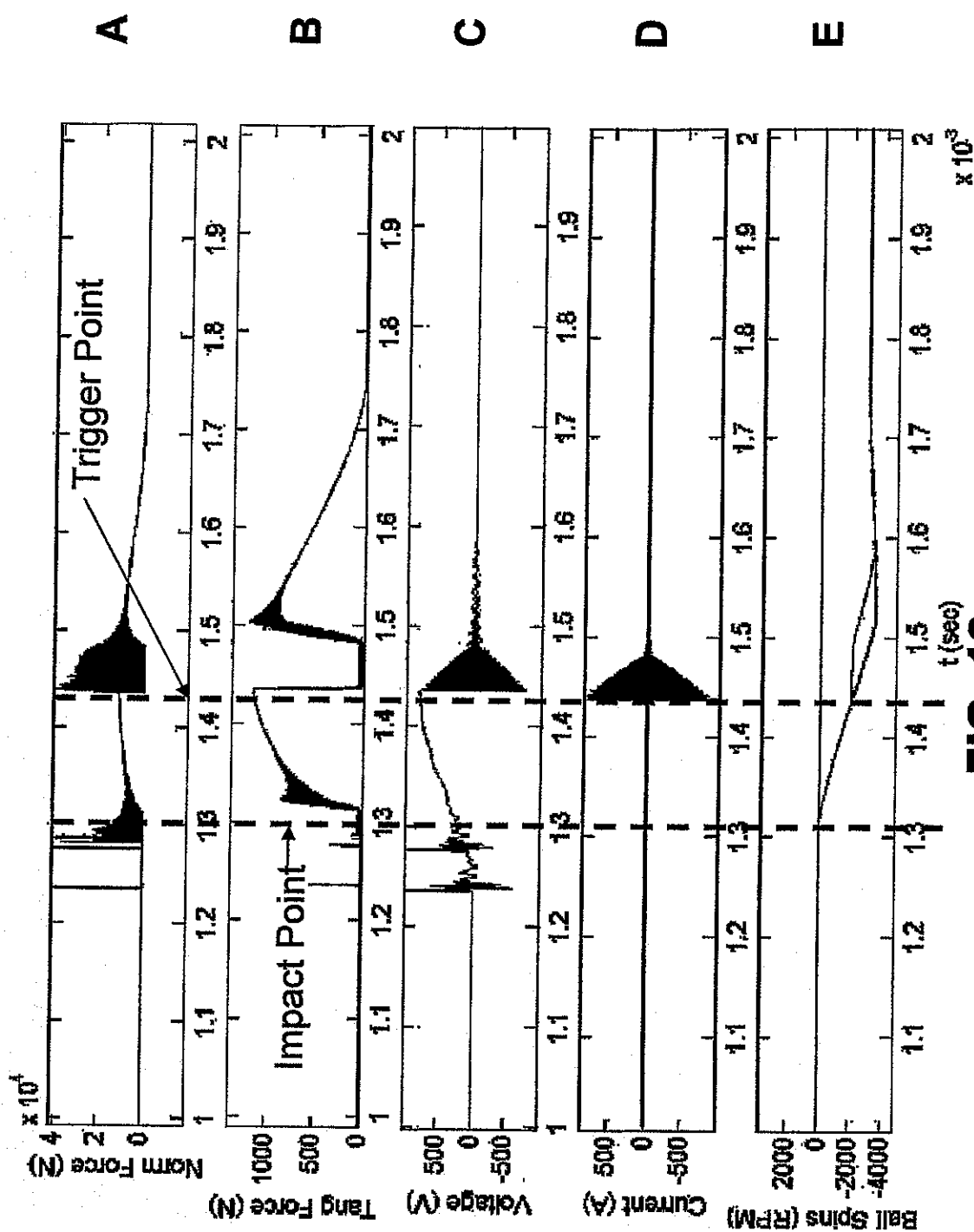
FIG. 10

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**FIG. 11**



Time
FIG. 12

**FIG. 13**

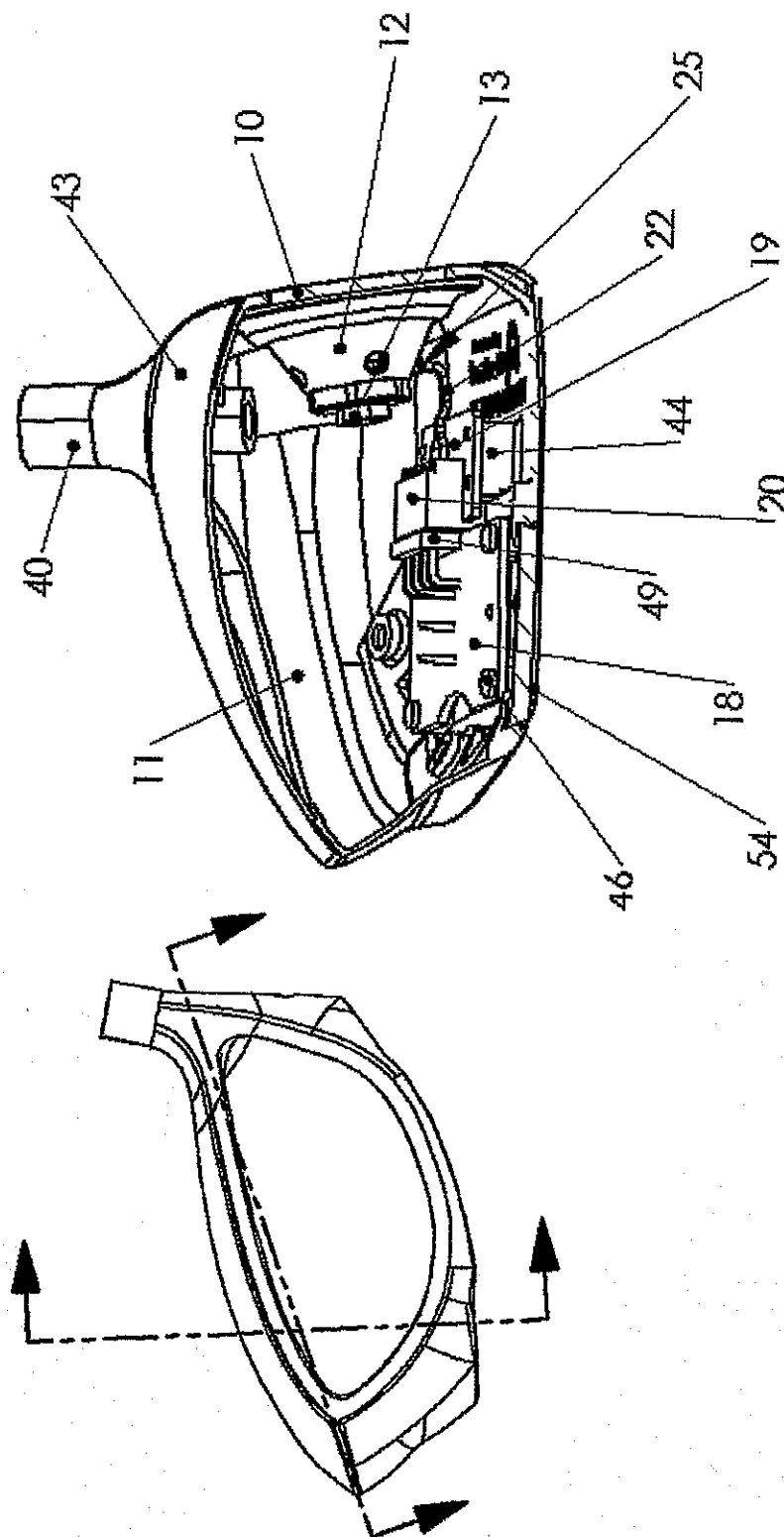


FIG. 14

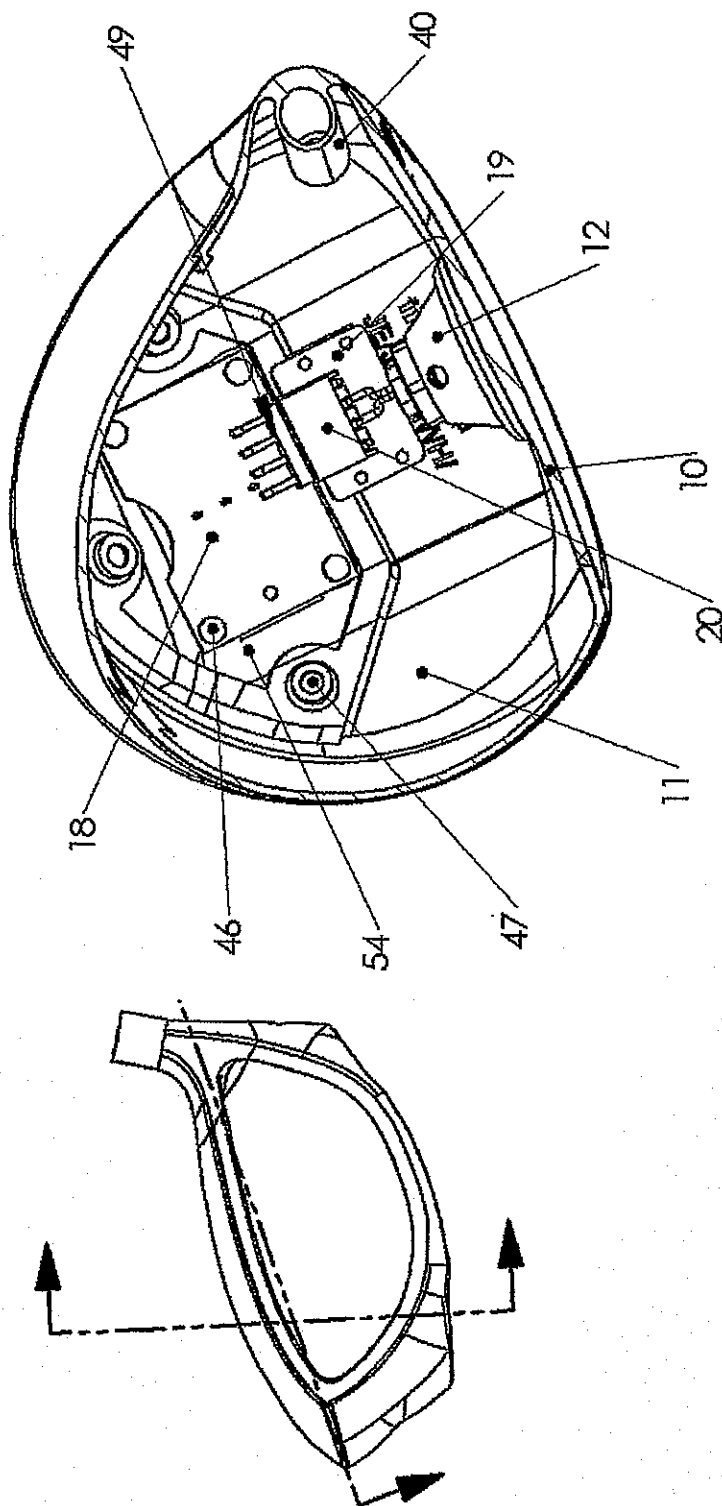


FIG. 15

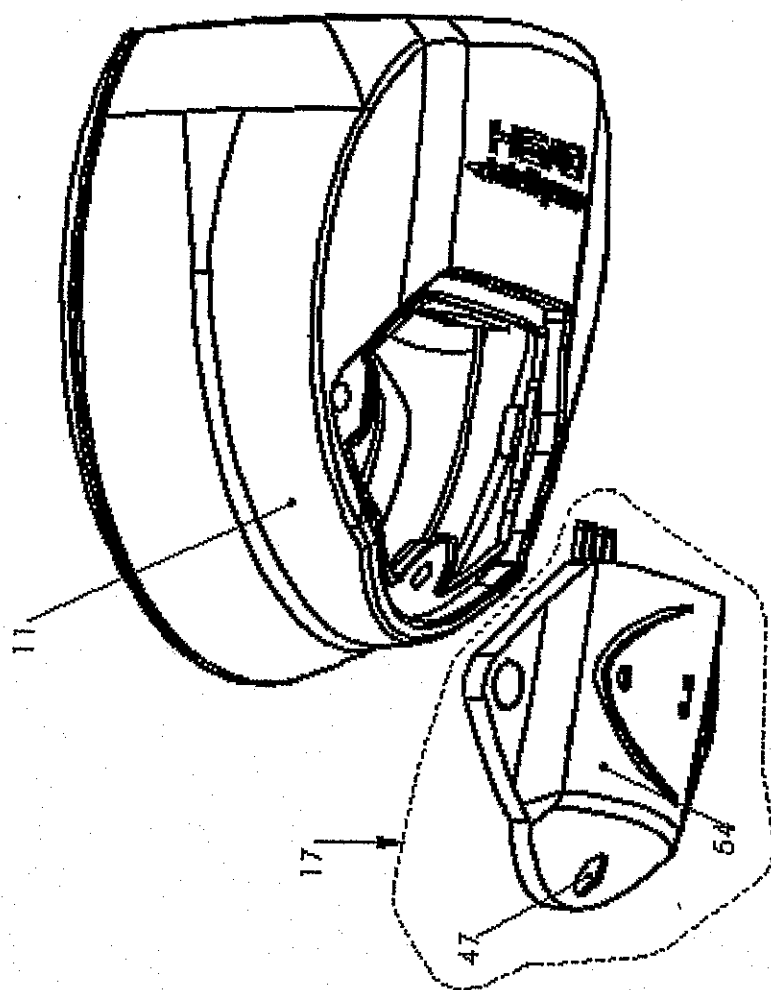
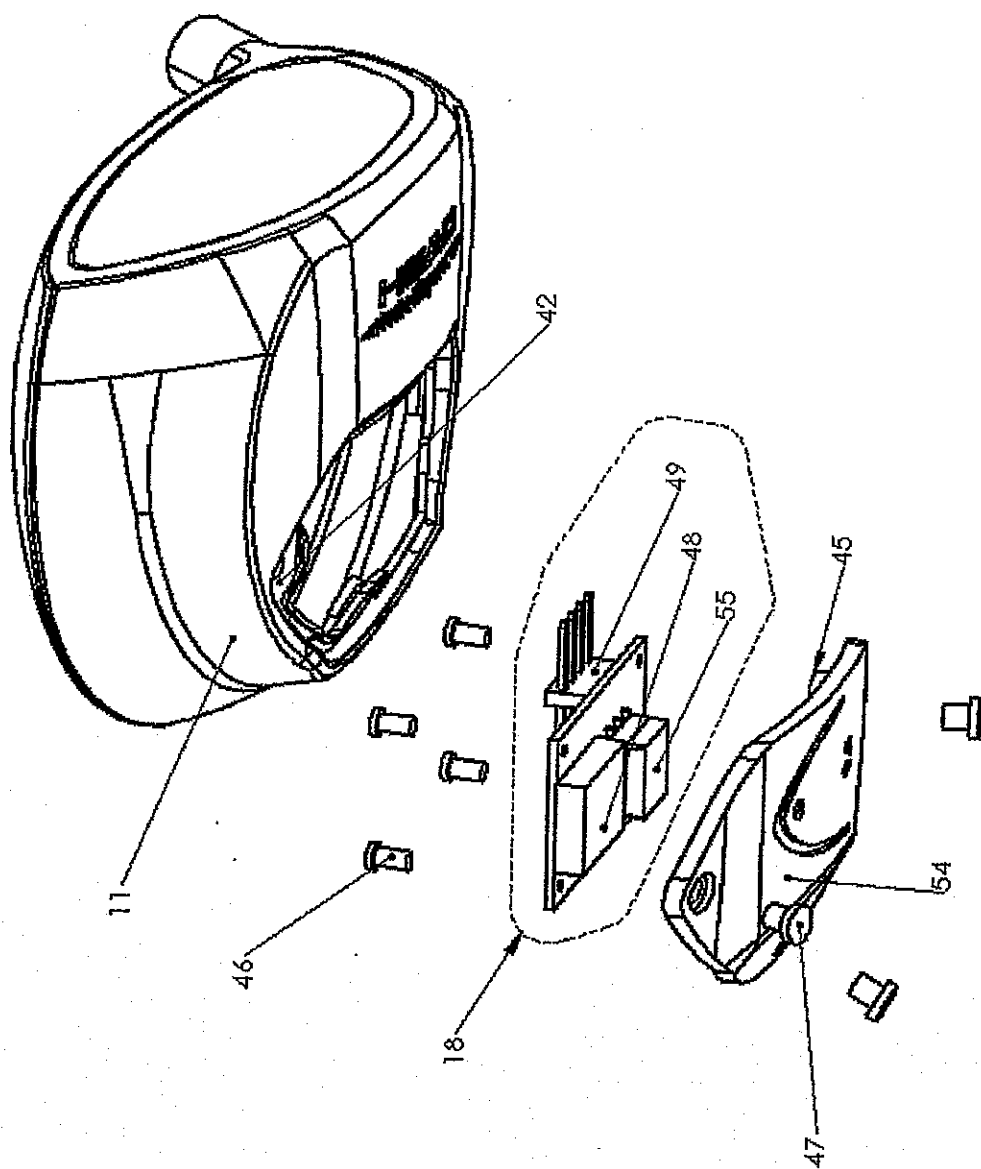


FIG 16a



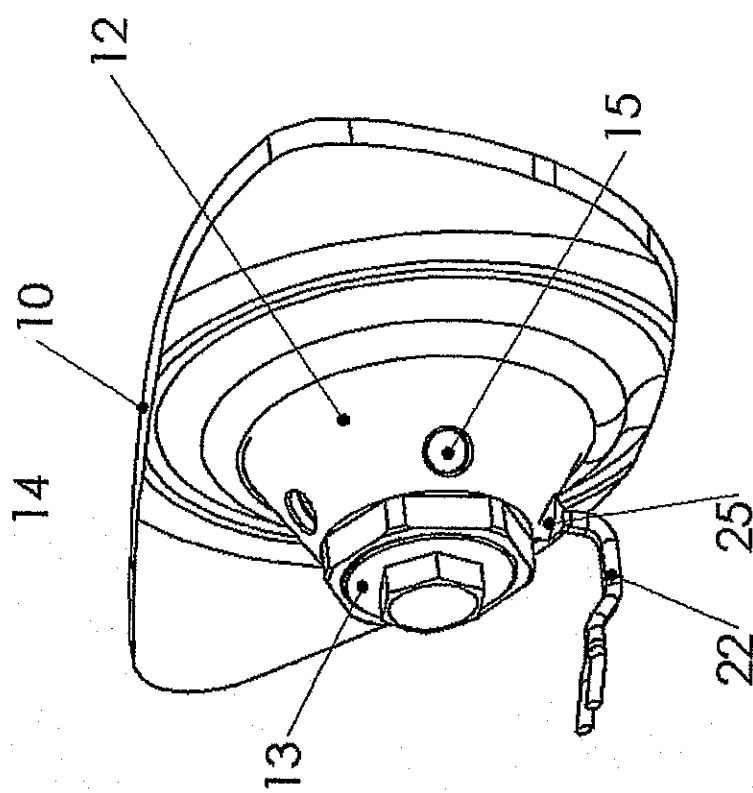
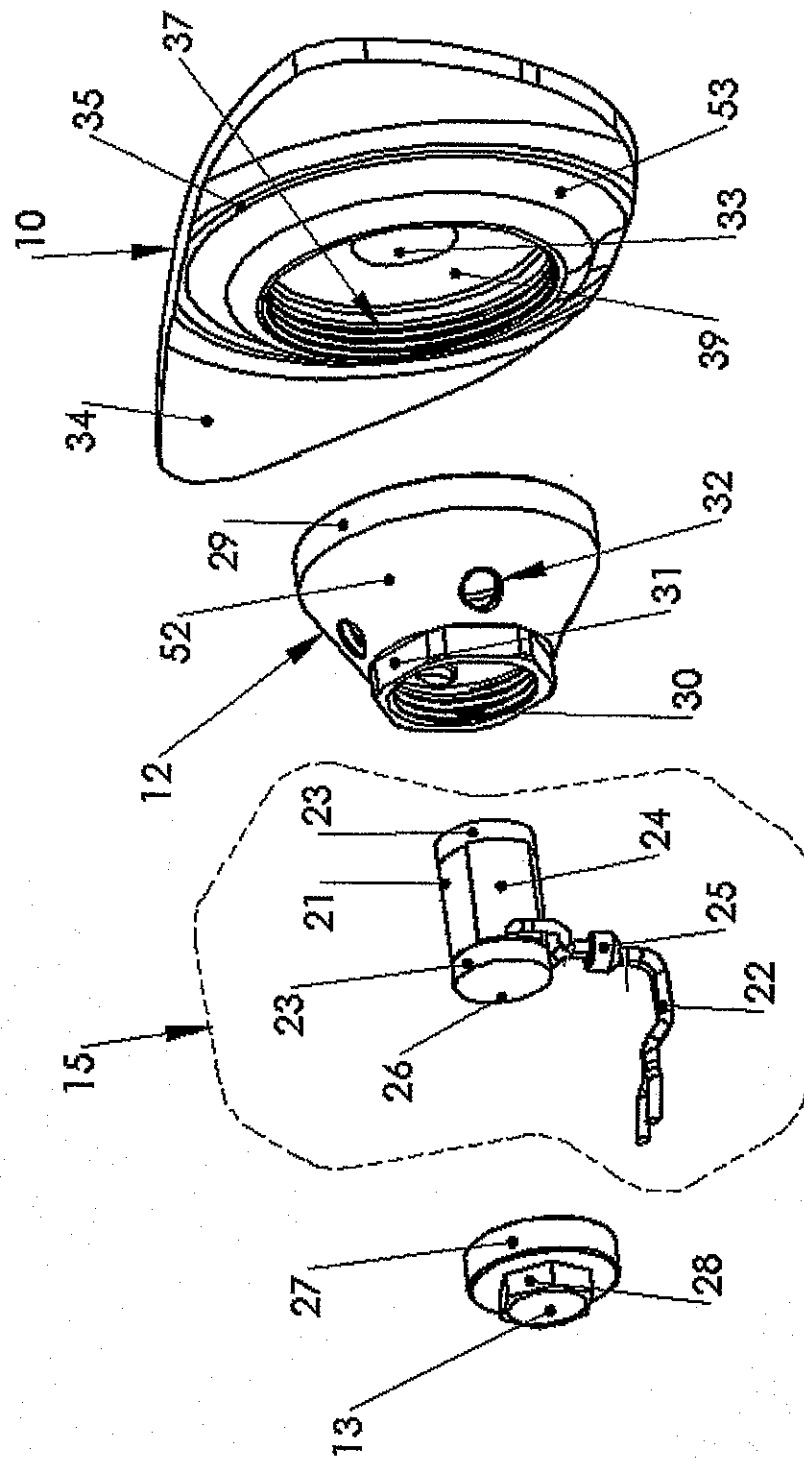


FIG. 17

**FIG. 18**

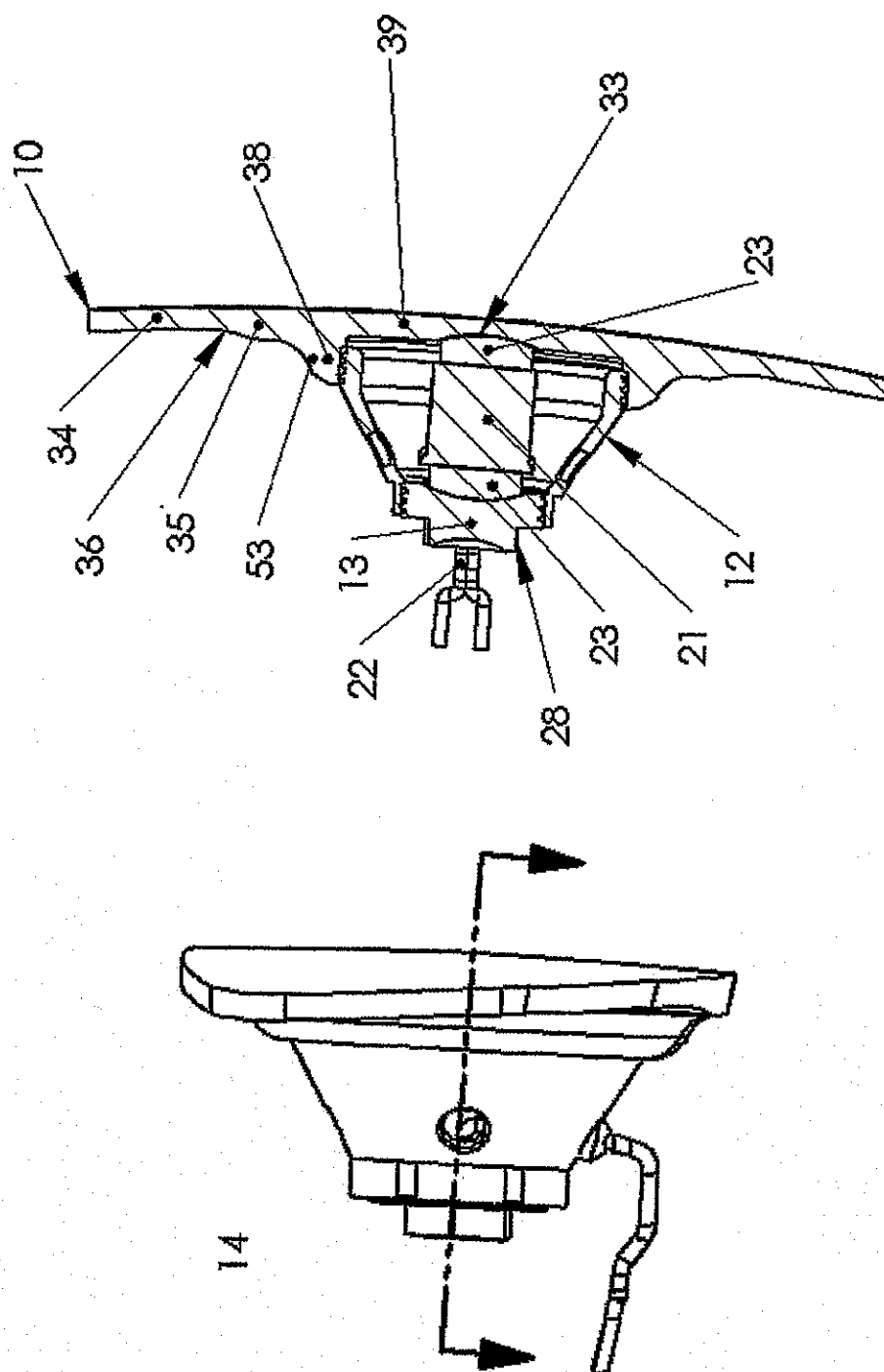


FIG. 19

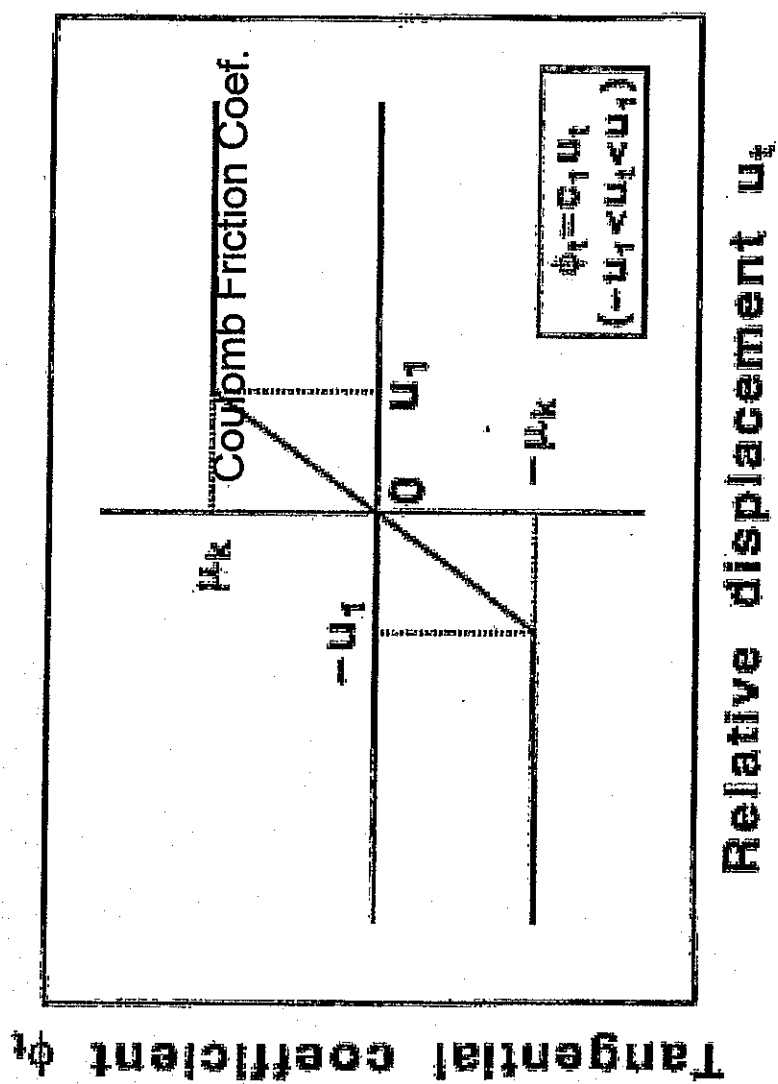
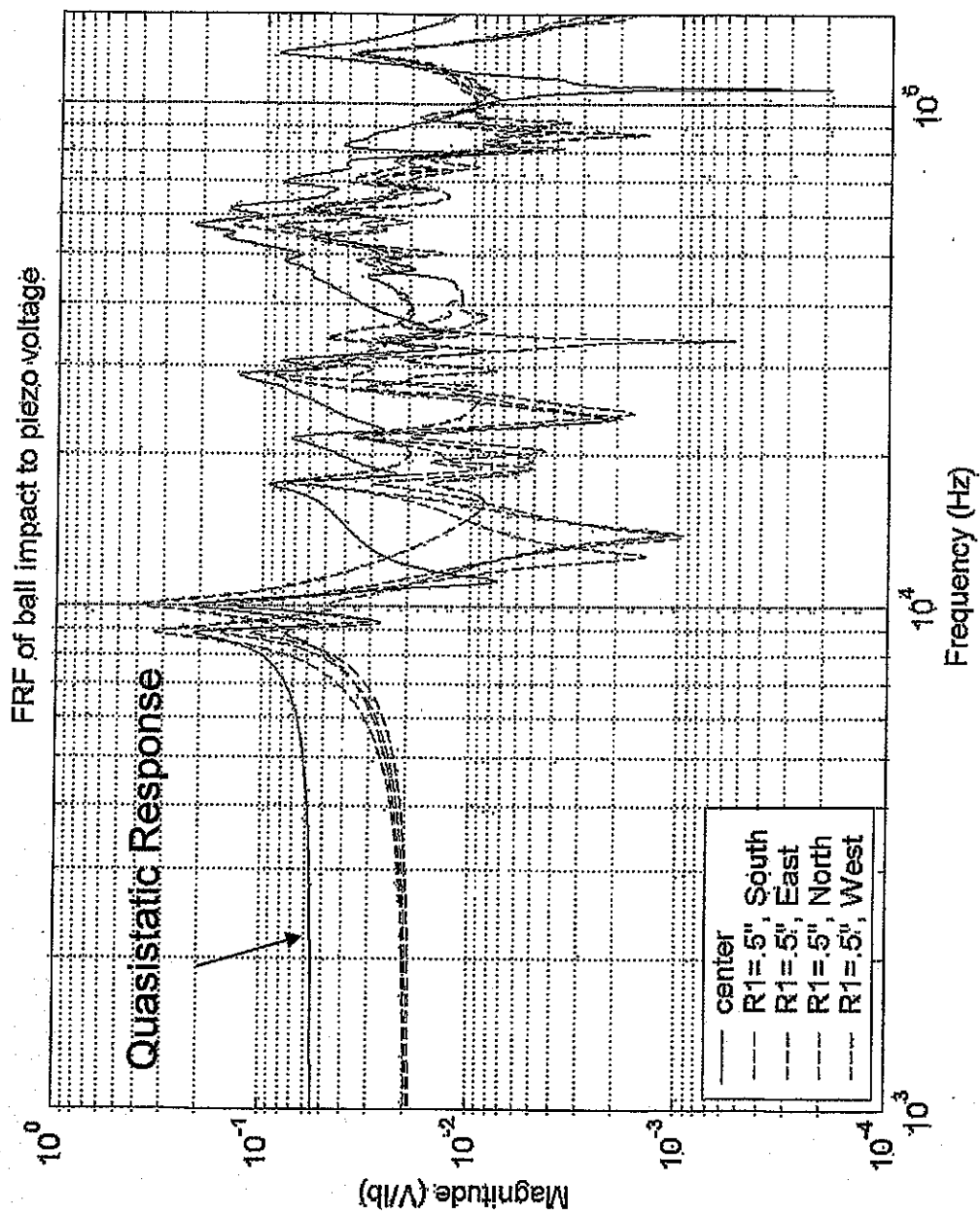


FIG. 20

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**FIG. 21**

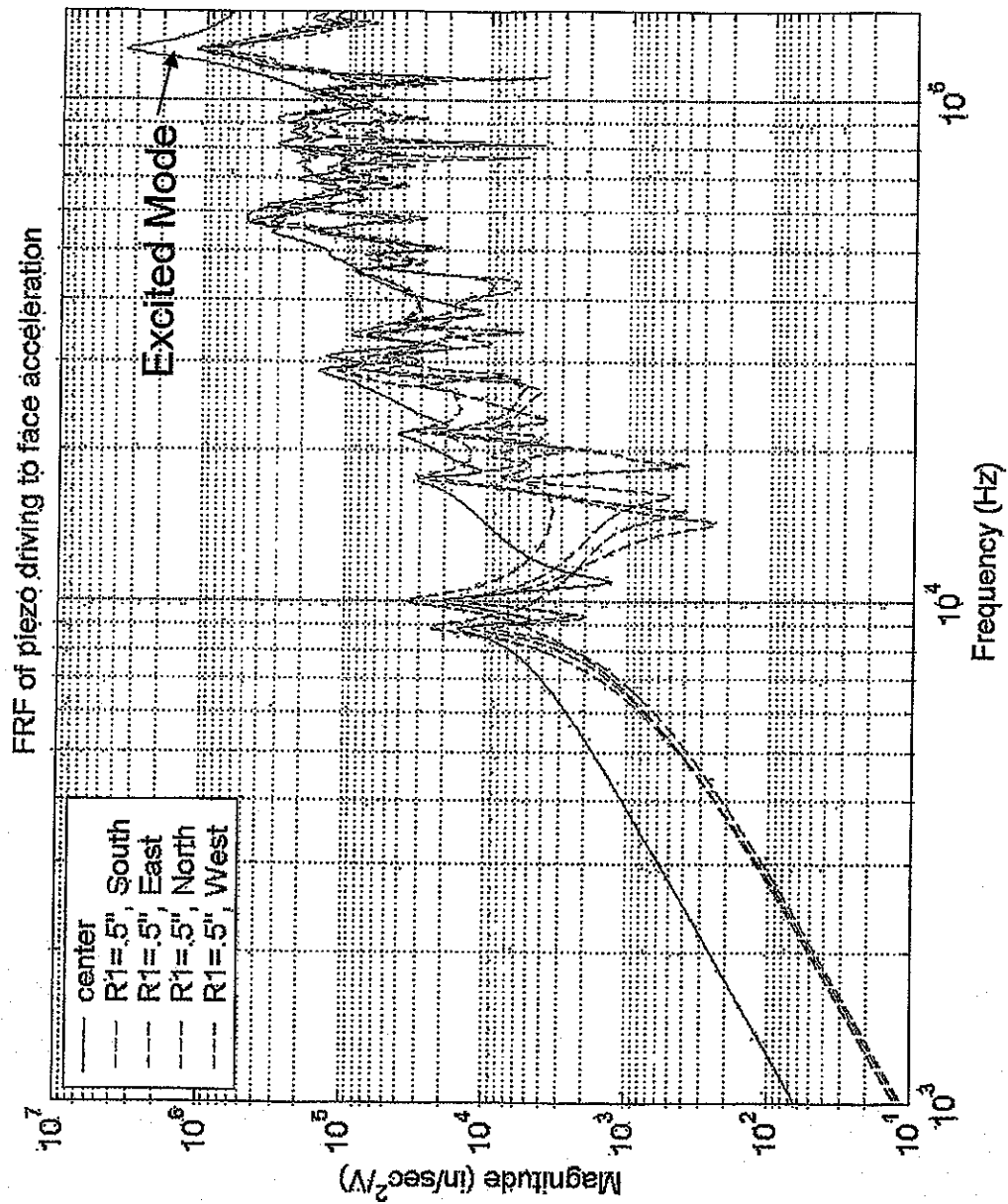


FIG. 22

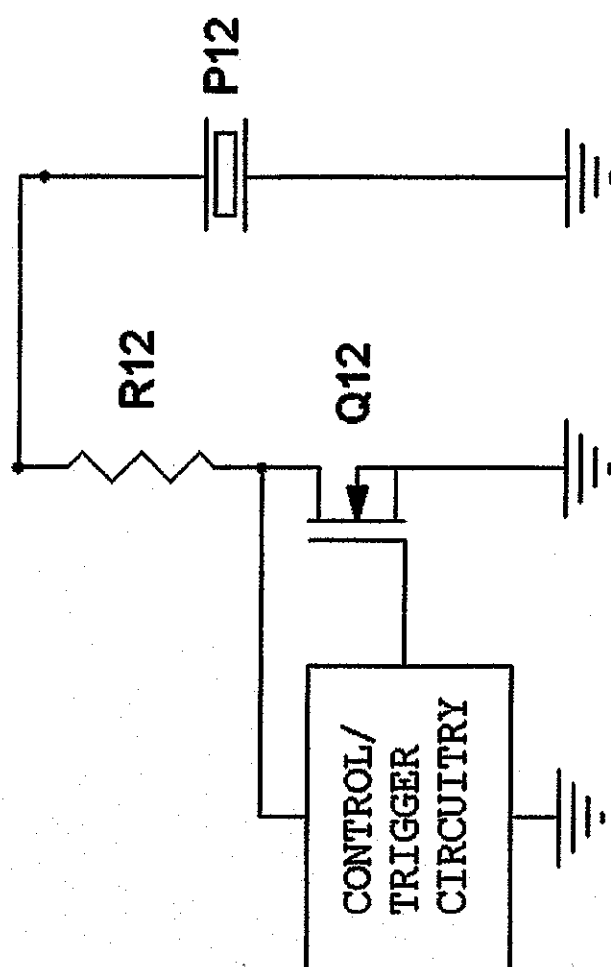


FIG. 23