

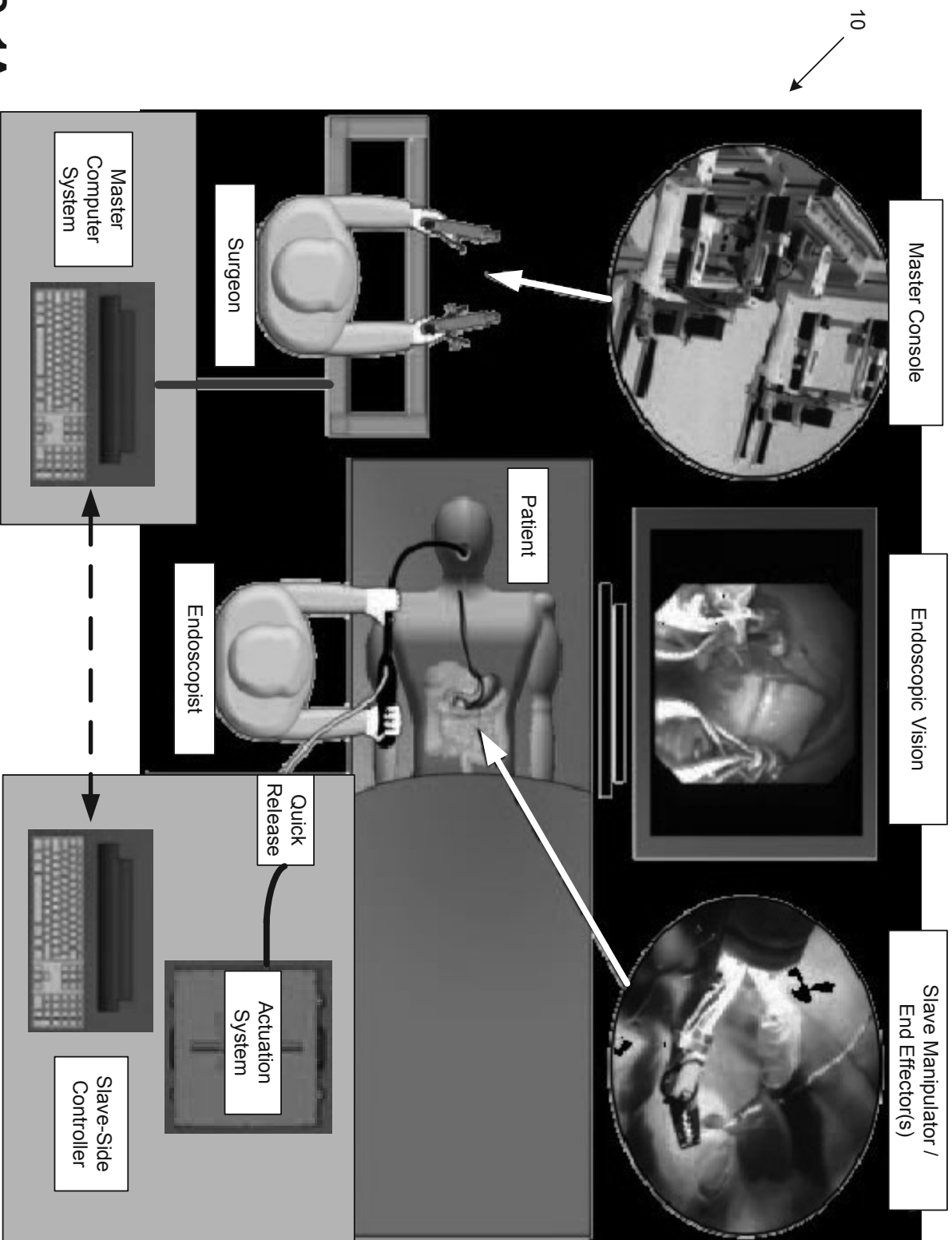


FIG. 1A

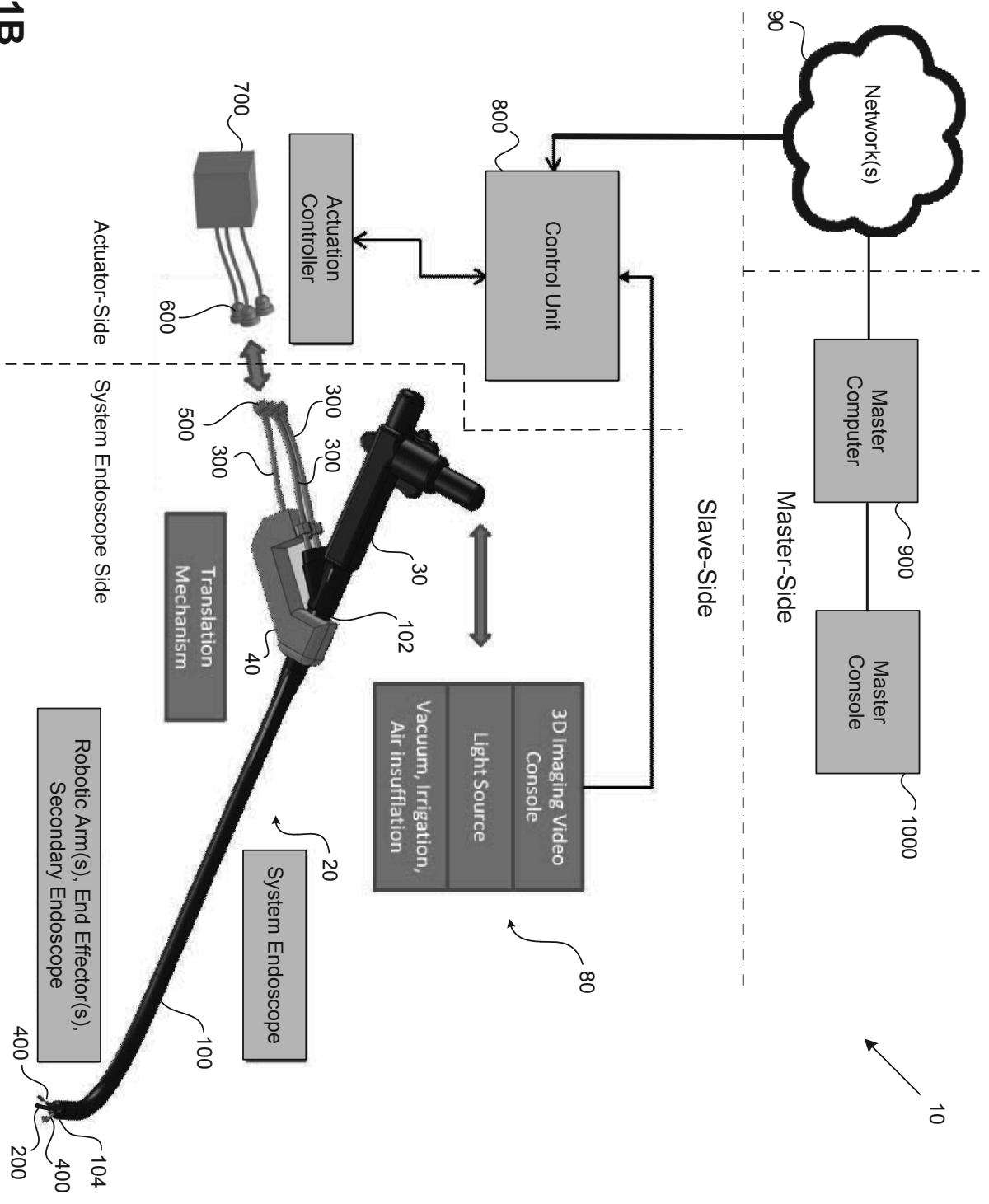
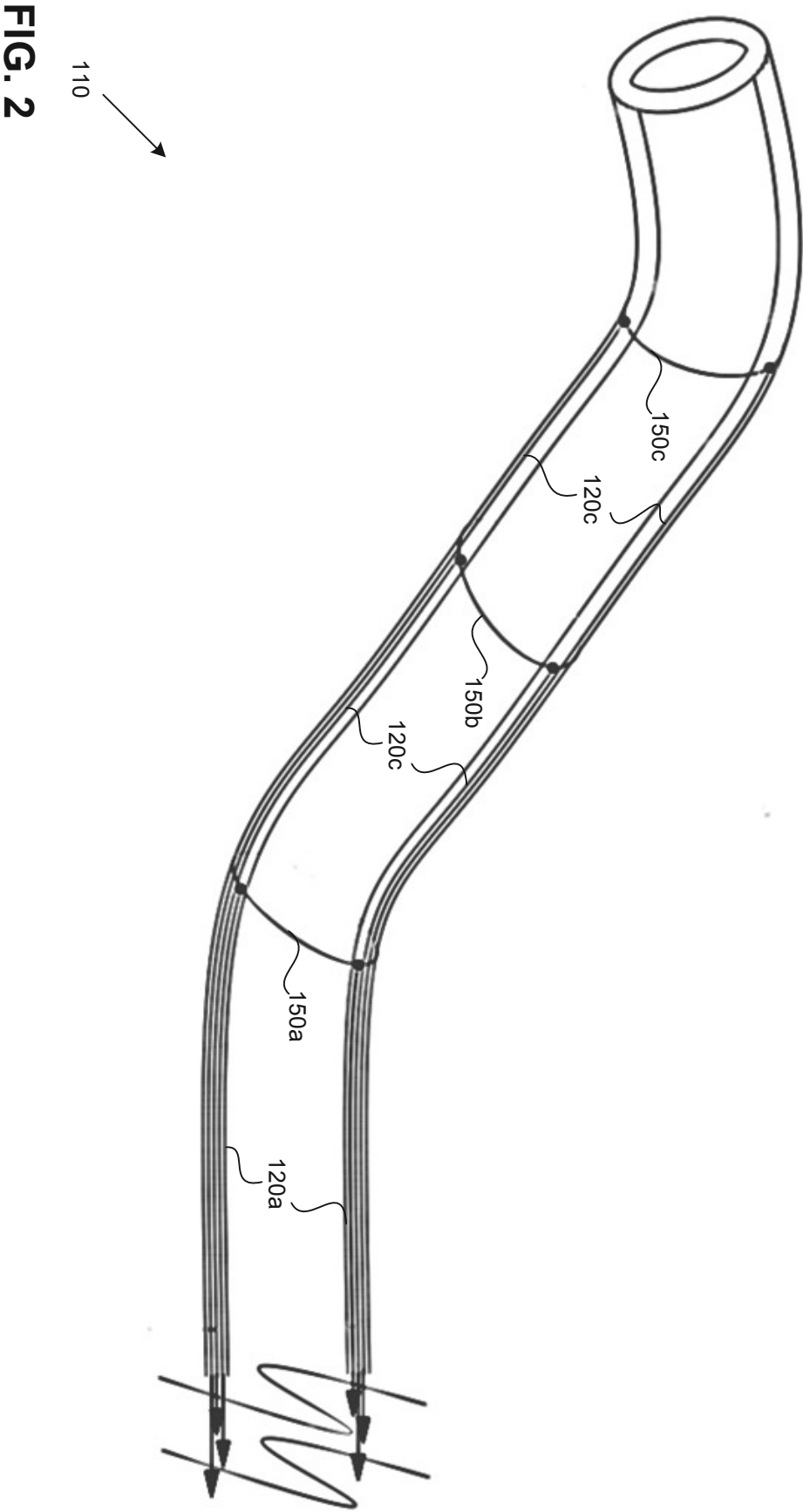


FIG. 1B



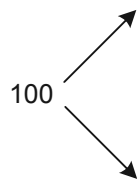
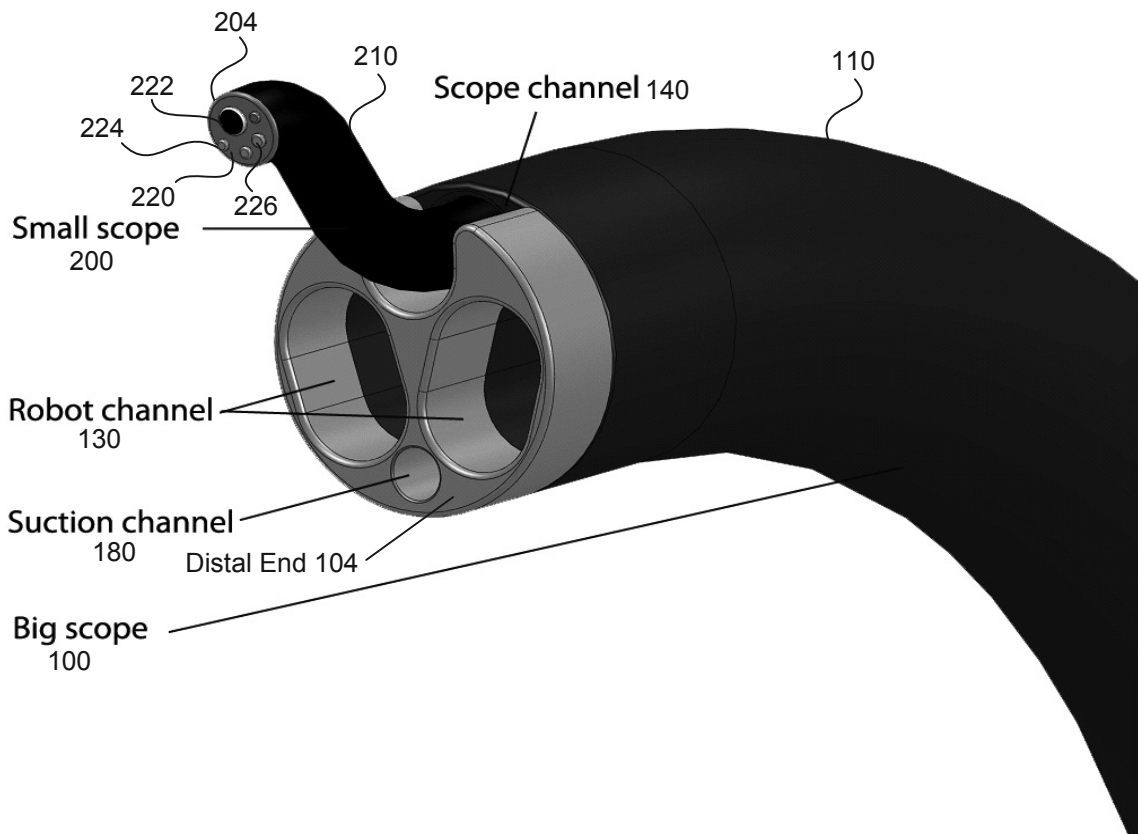


FIG. 3A

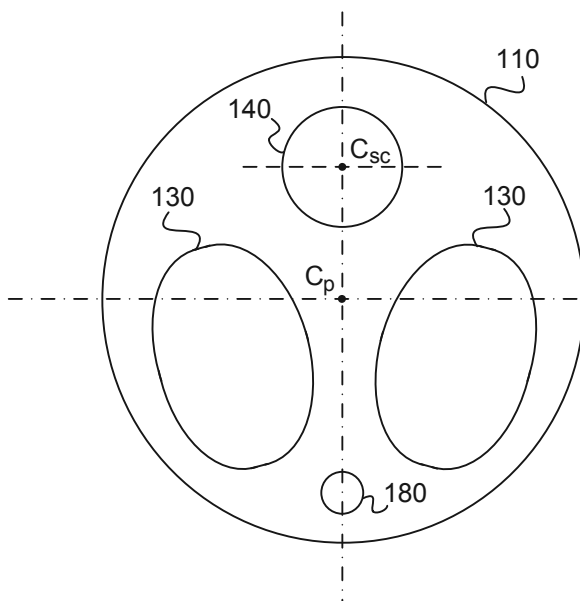


FIG. 3B

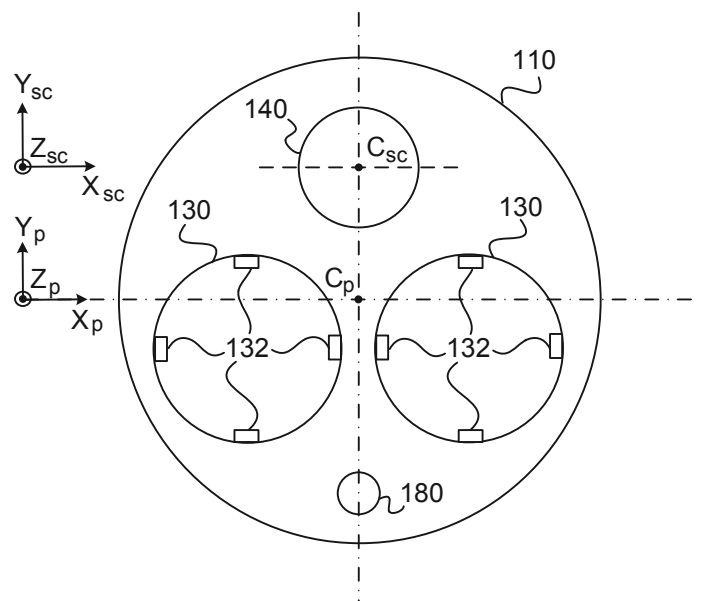


FIG. 3C

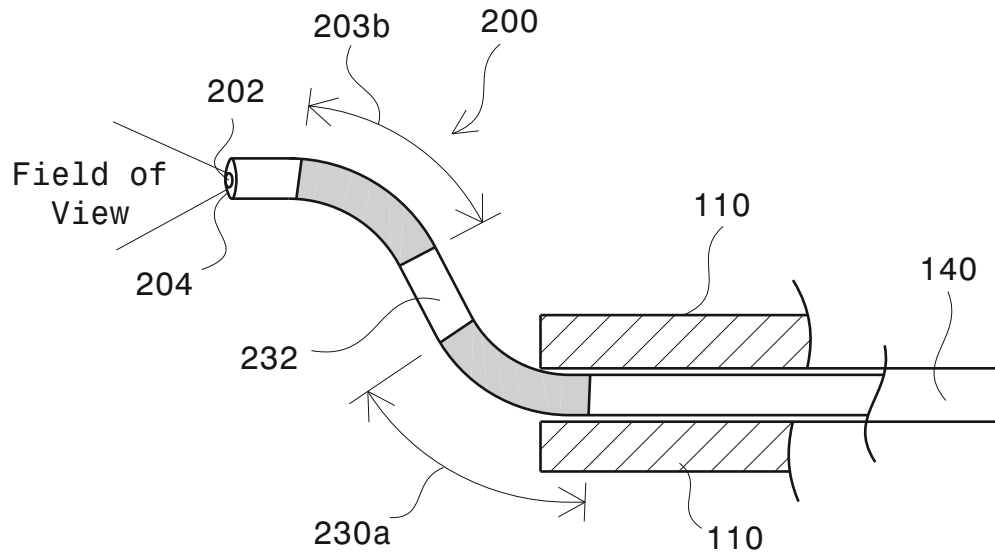


FIG. 3D

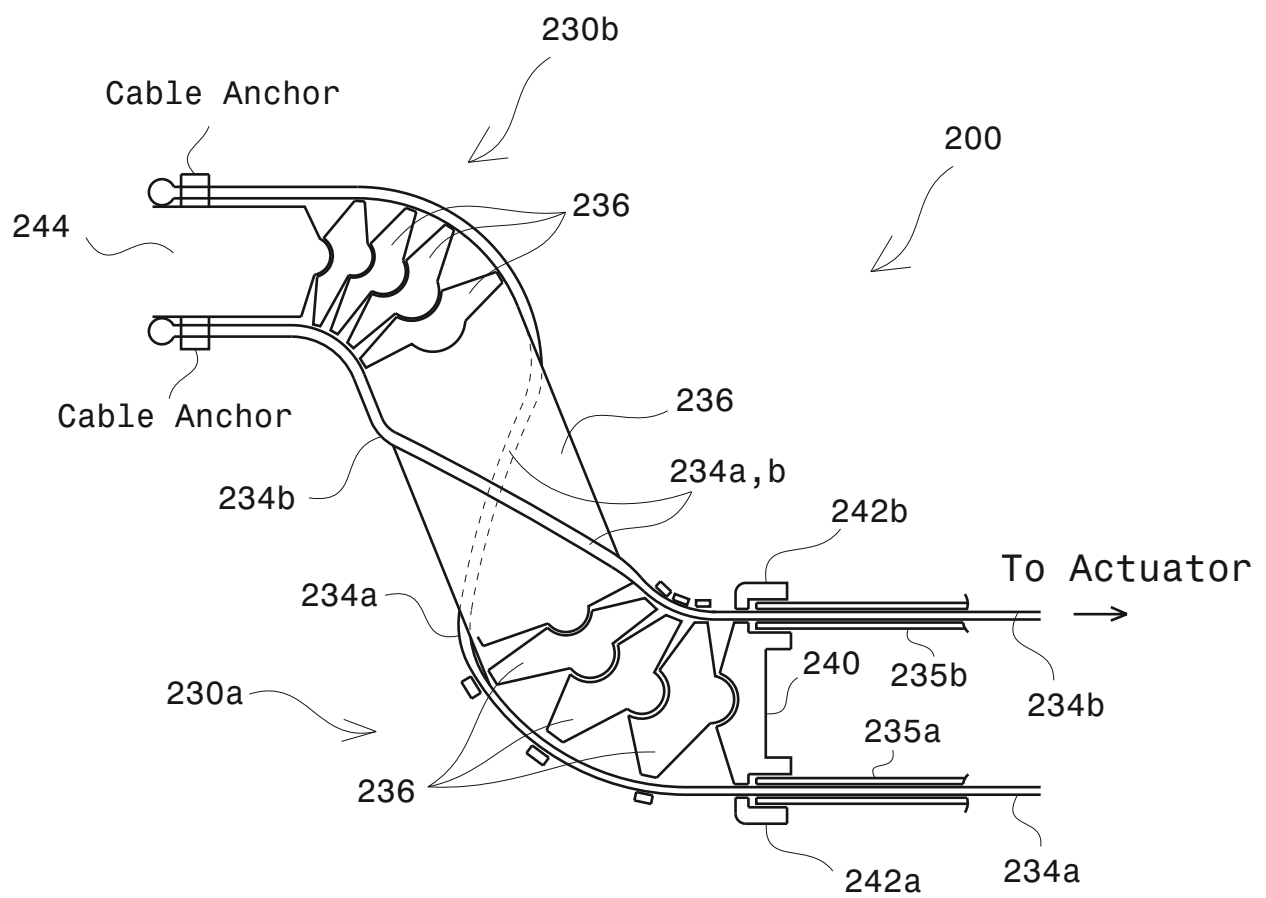
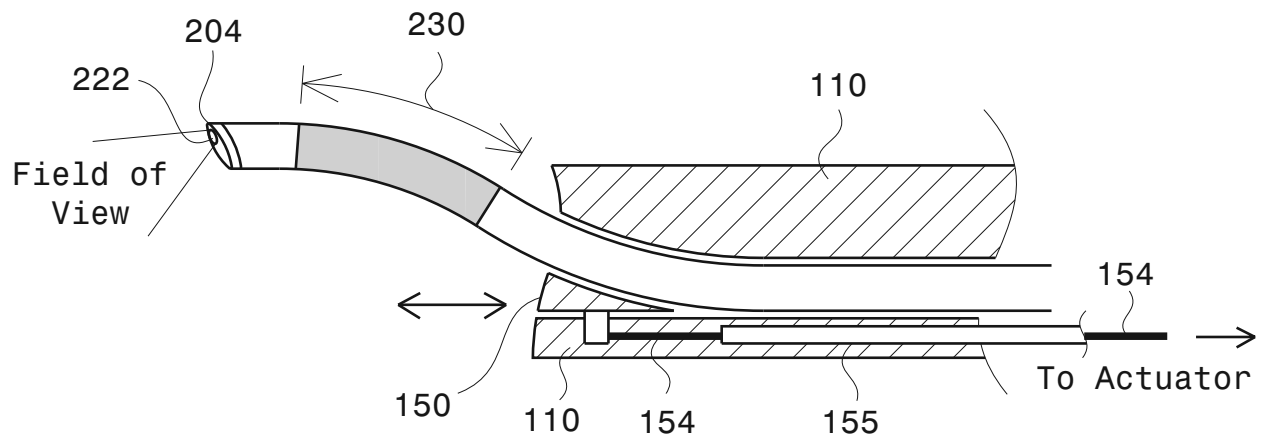
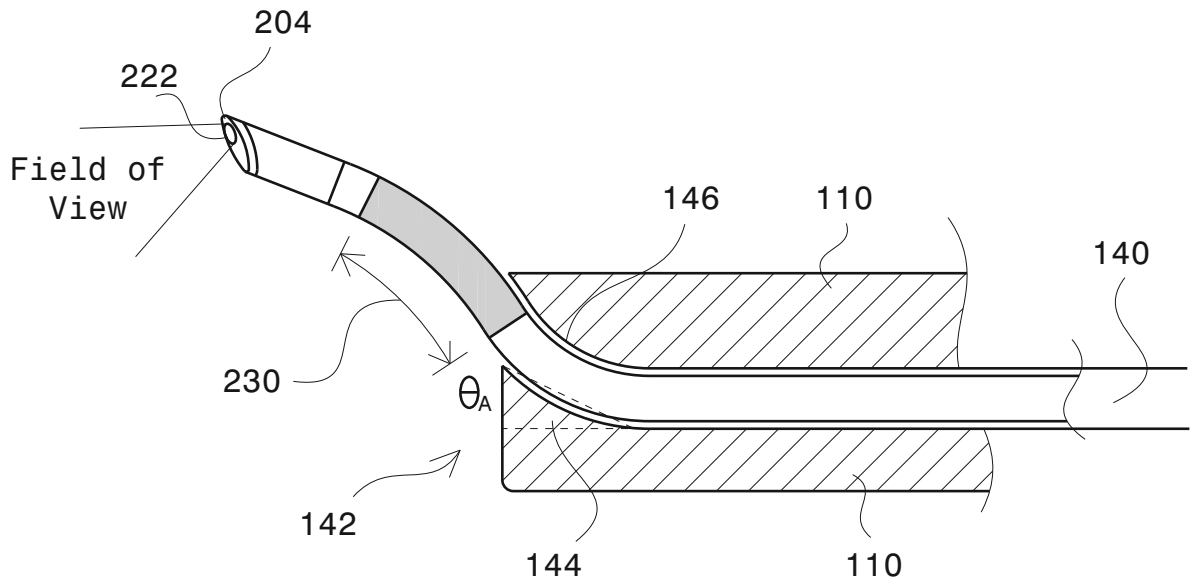


FIG. 3E



FIG. 3F



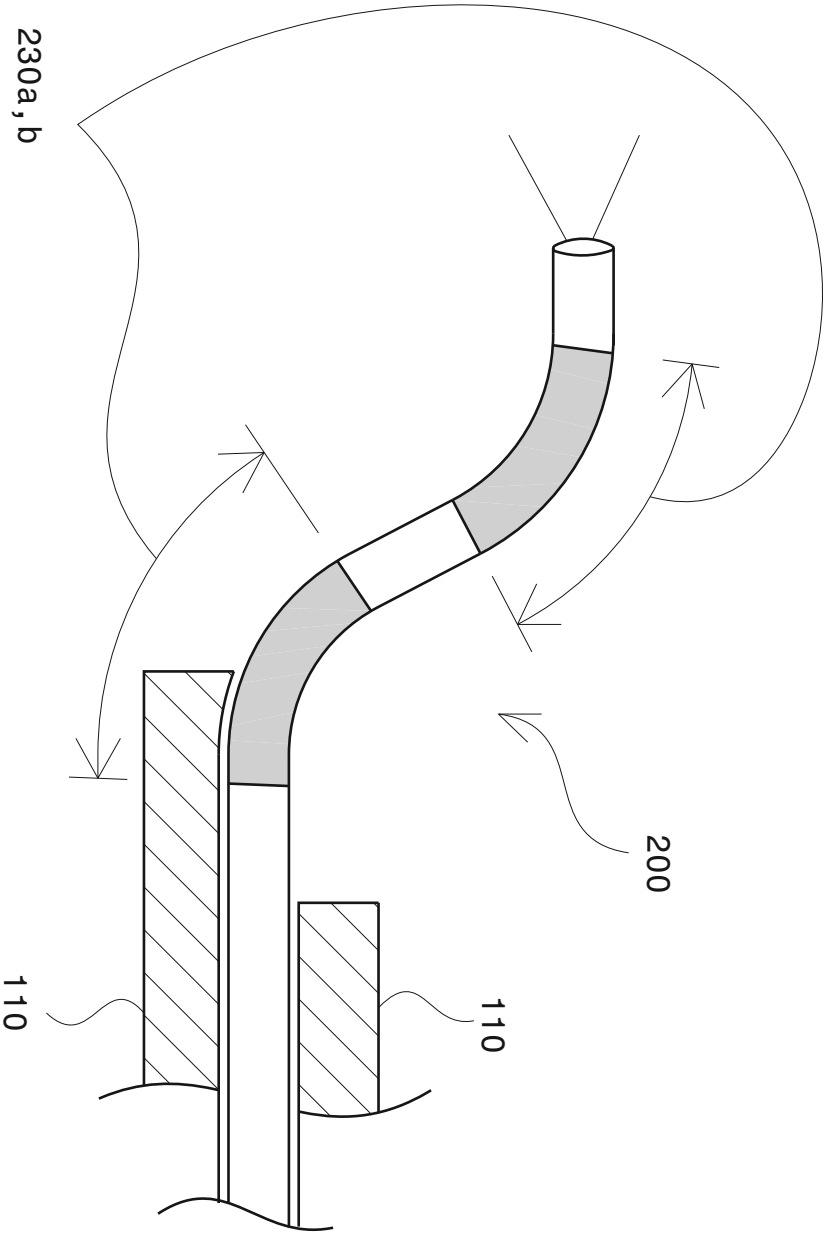


FIG. 31

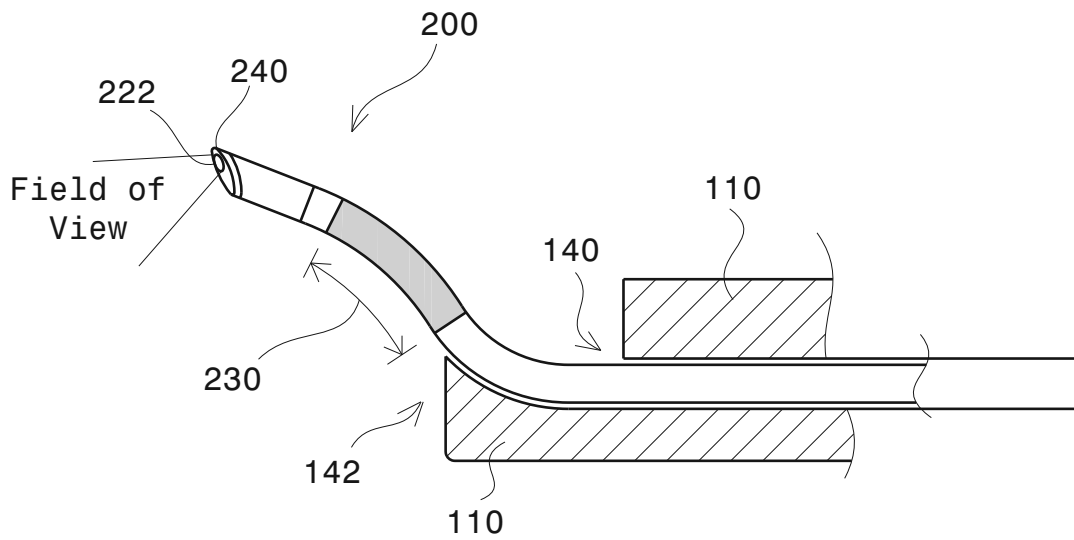


FIG. 3J

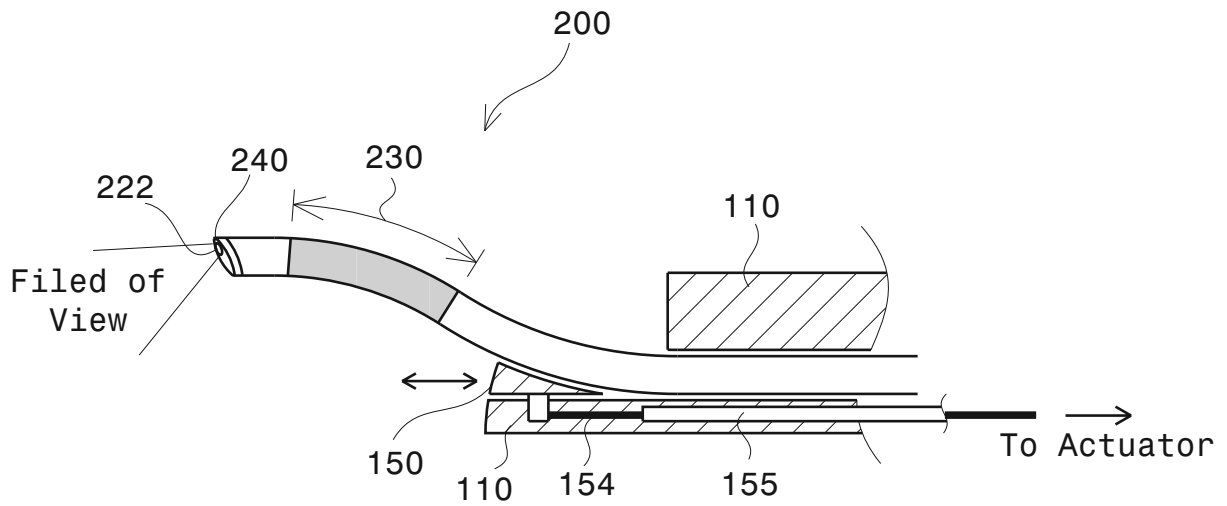
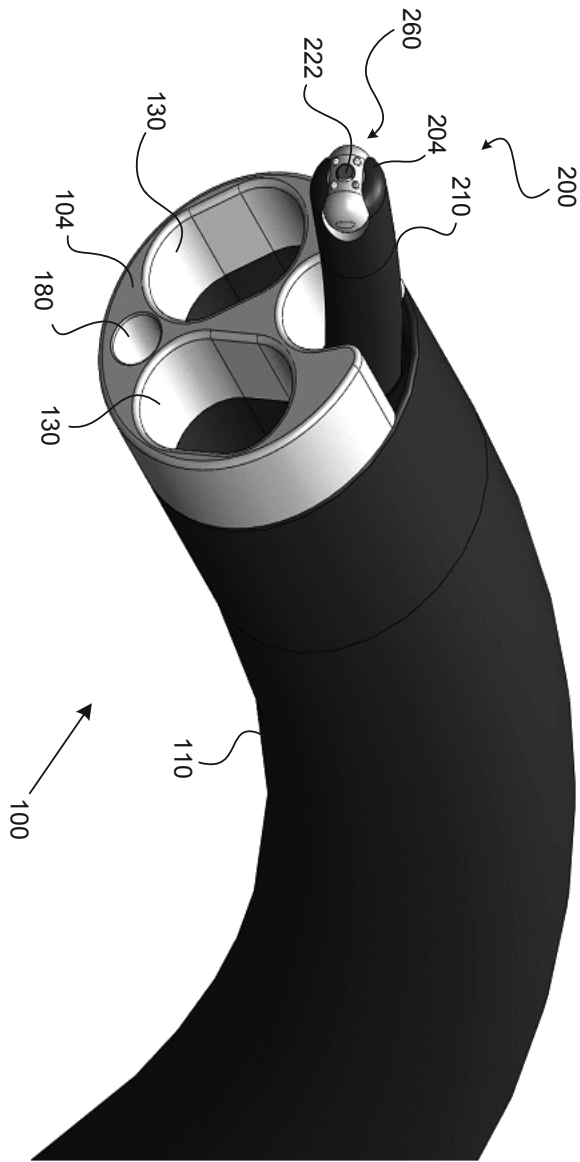


FIG. 3K

FIG. 3L



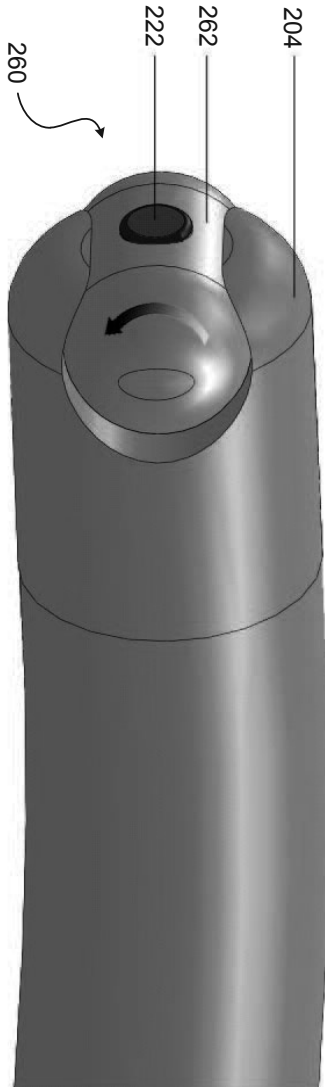
200



210



FIG. 3M

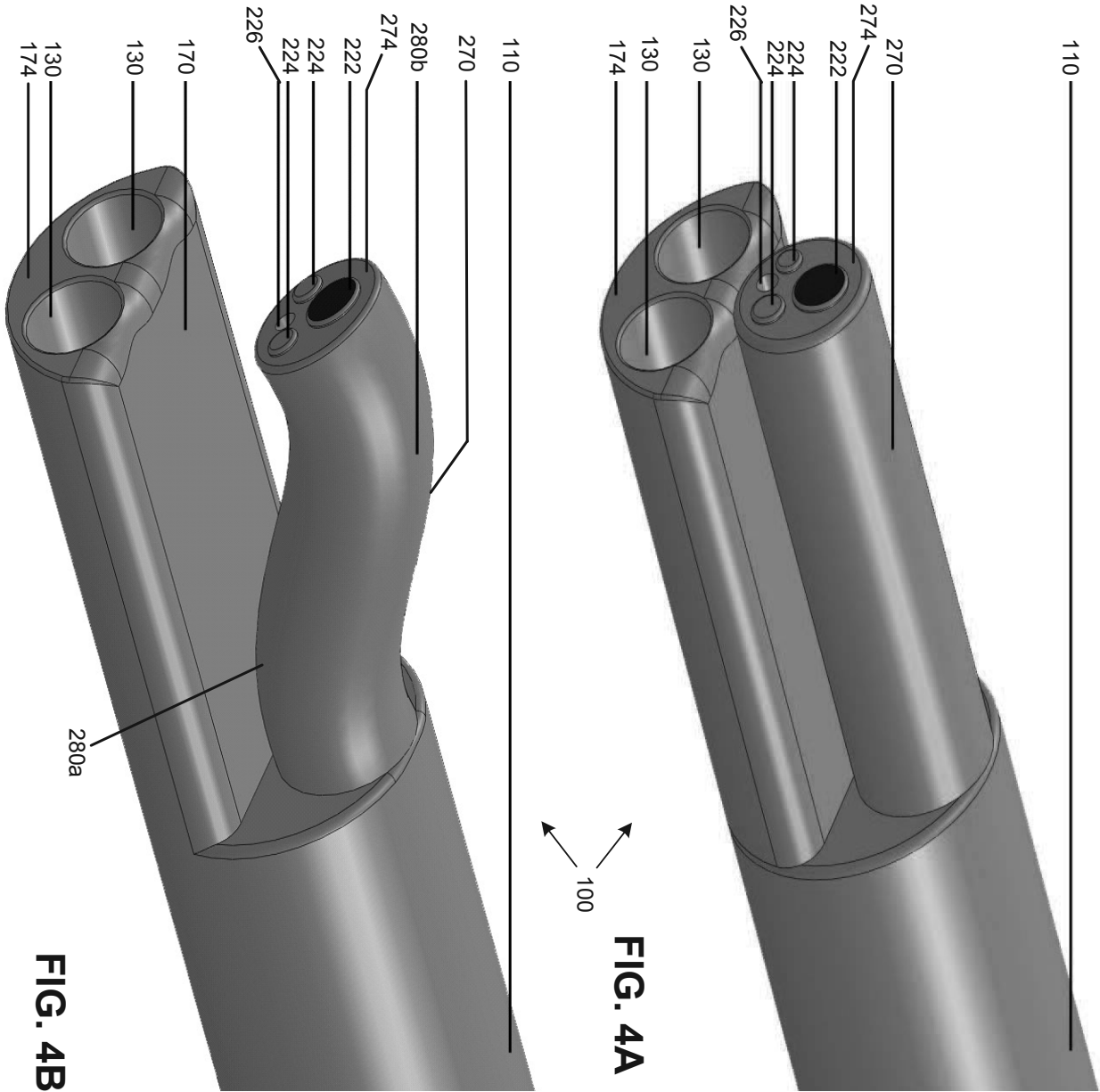


204

262

222

260



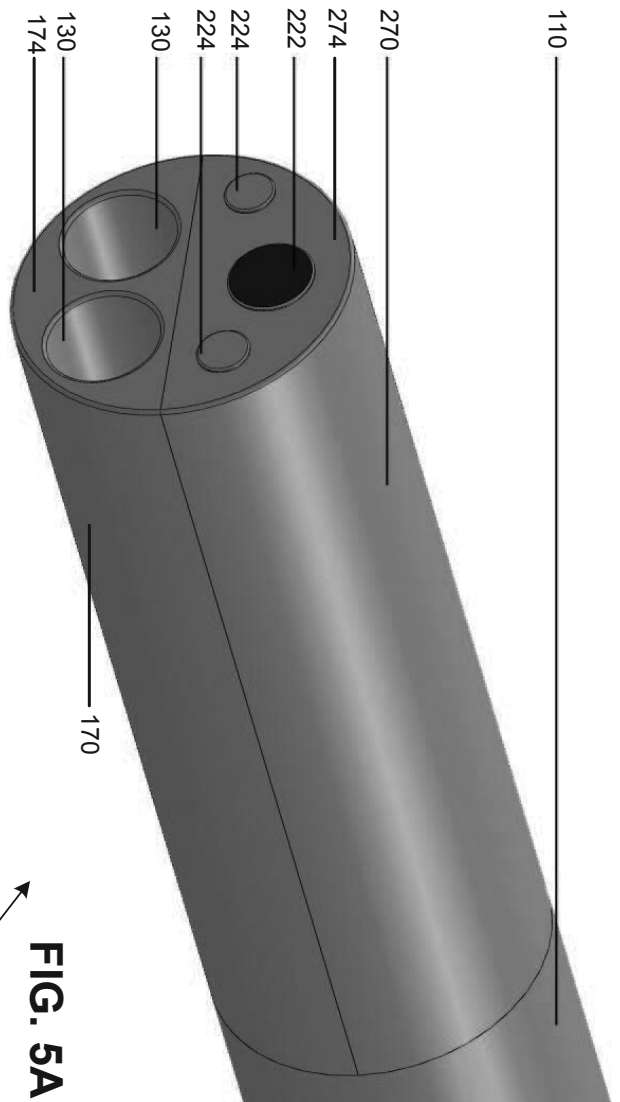


FIG. 5A

100



FIG. 5B

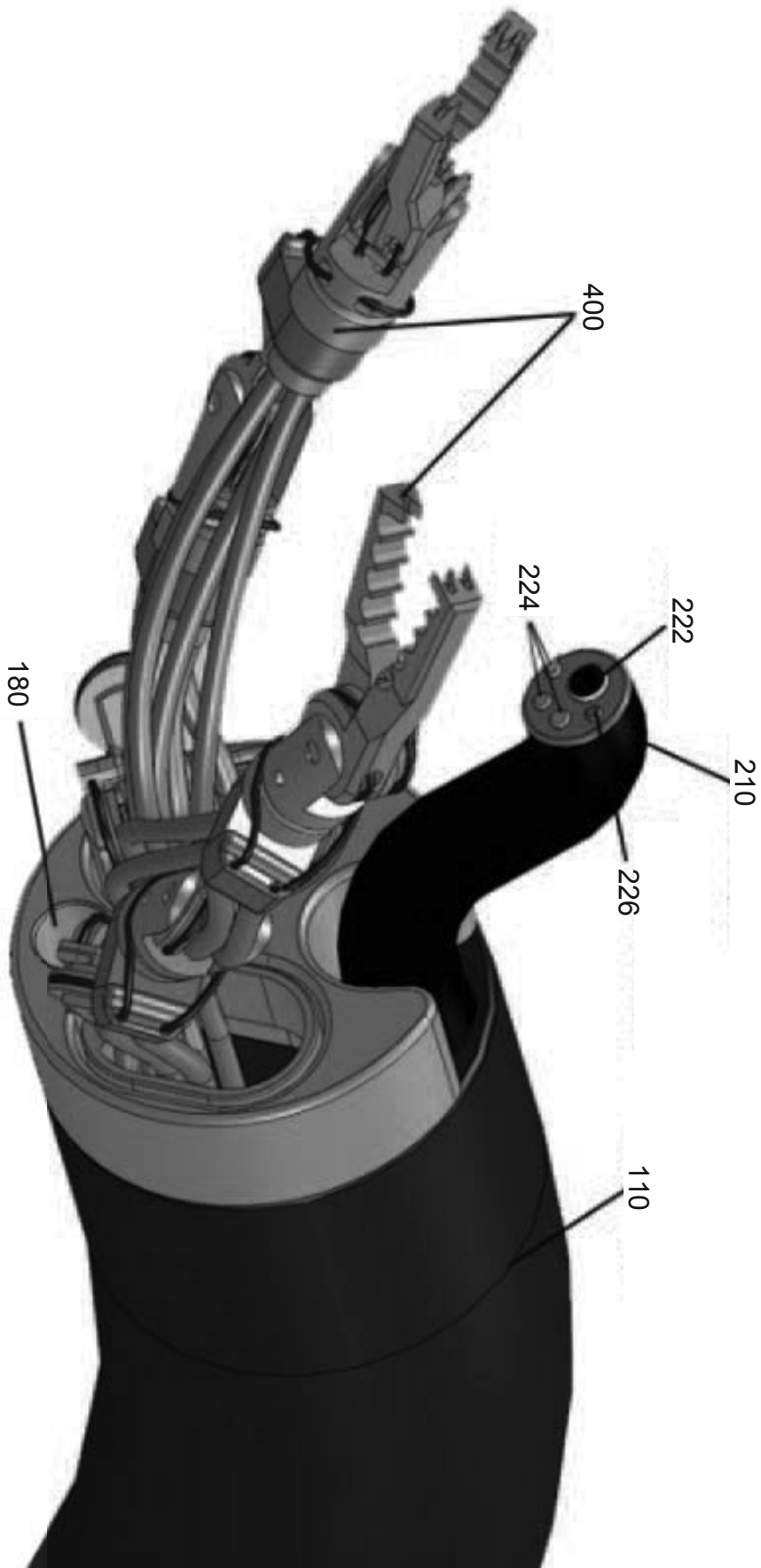


FIG. 6A

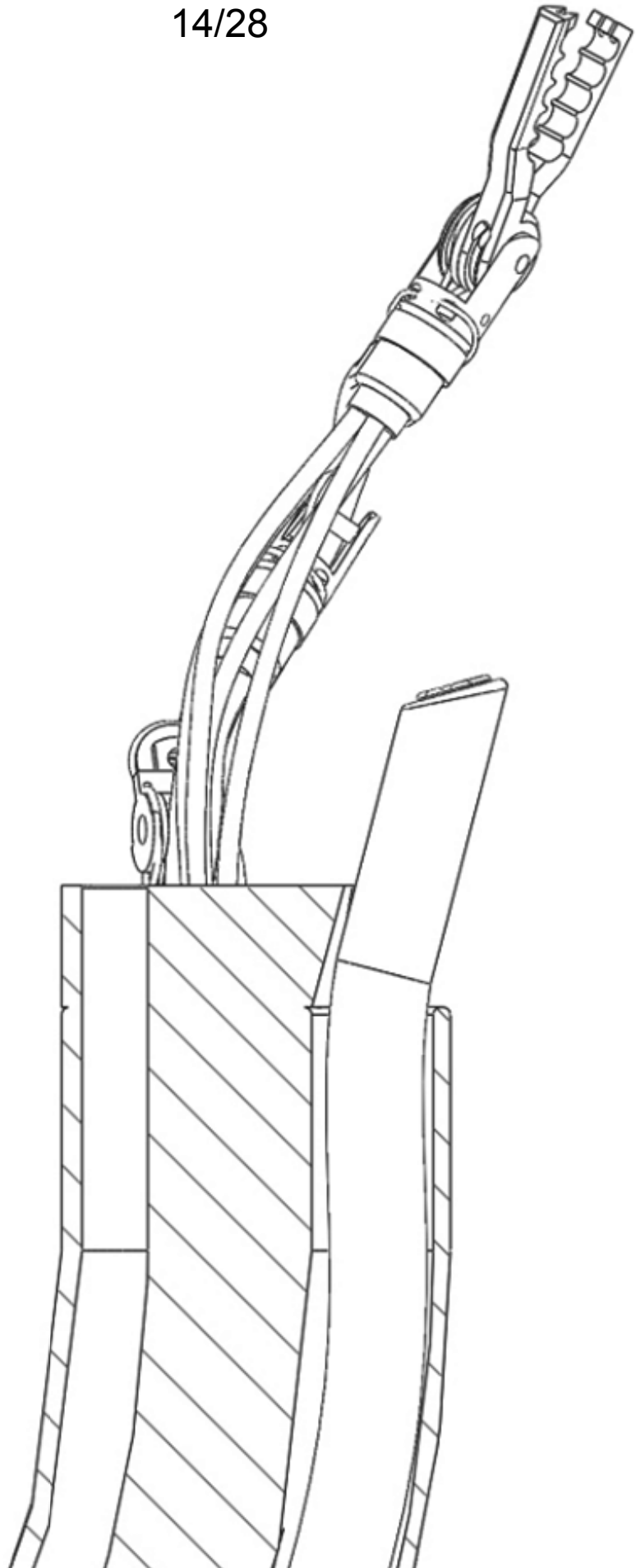
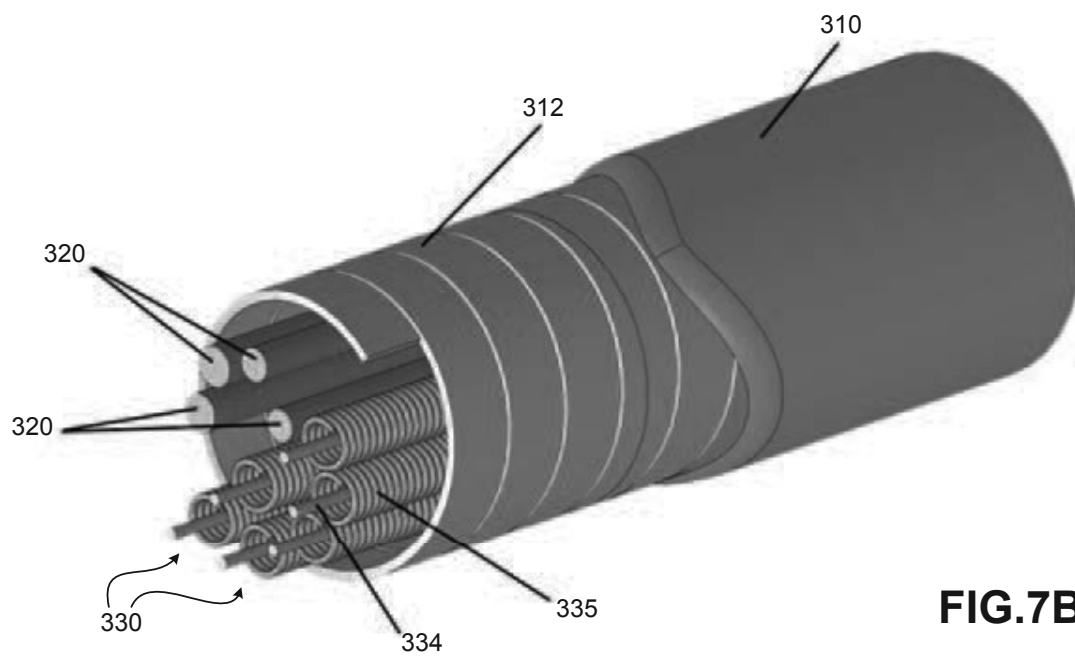
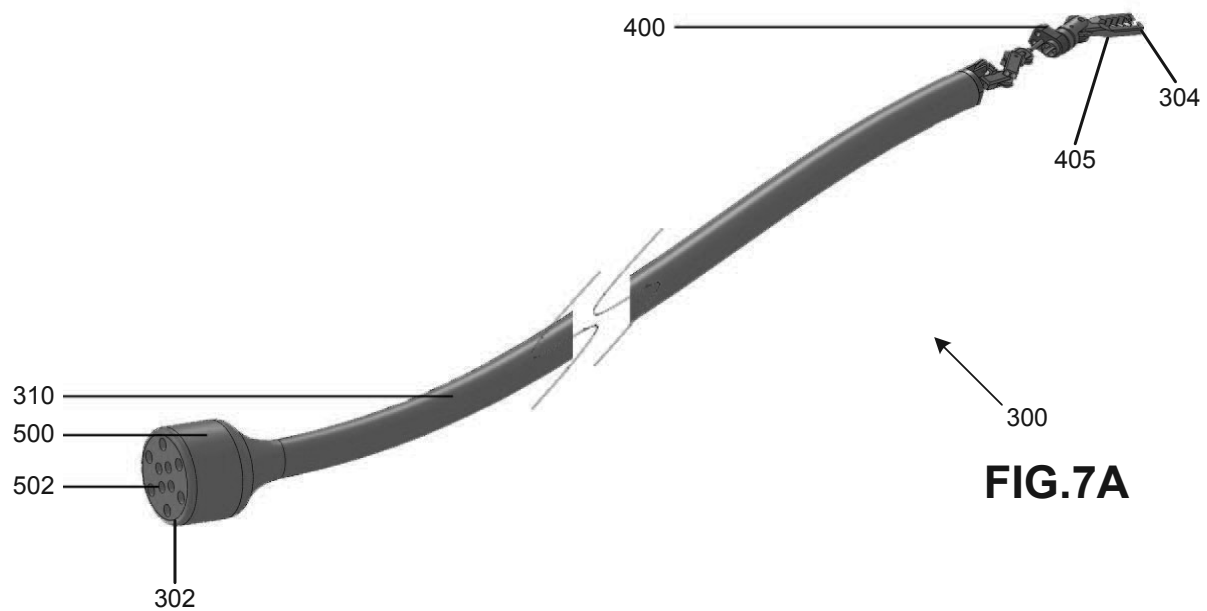


FIG. 6B



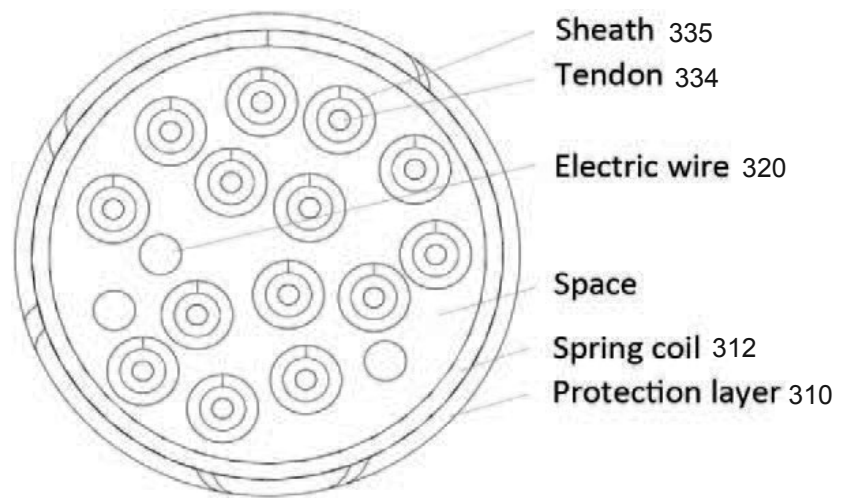


FIG. 7C

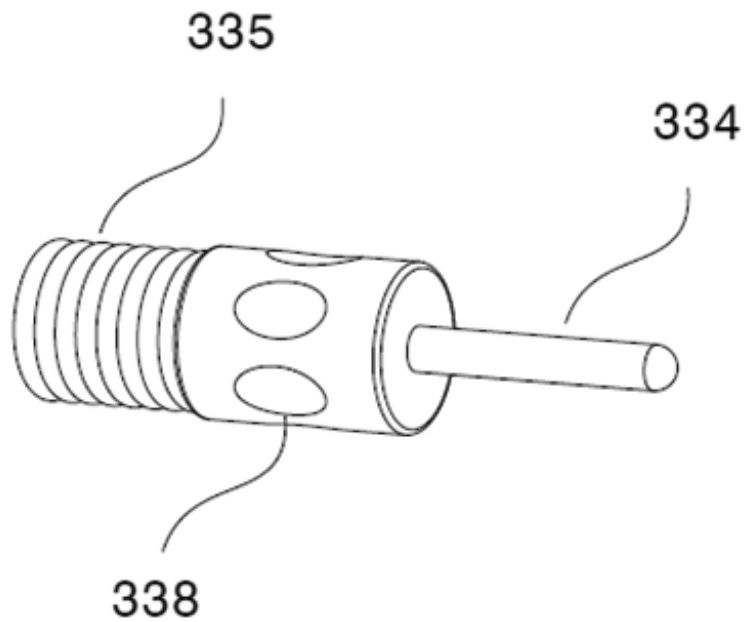
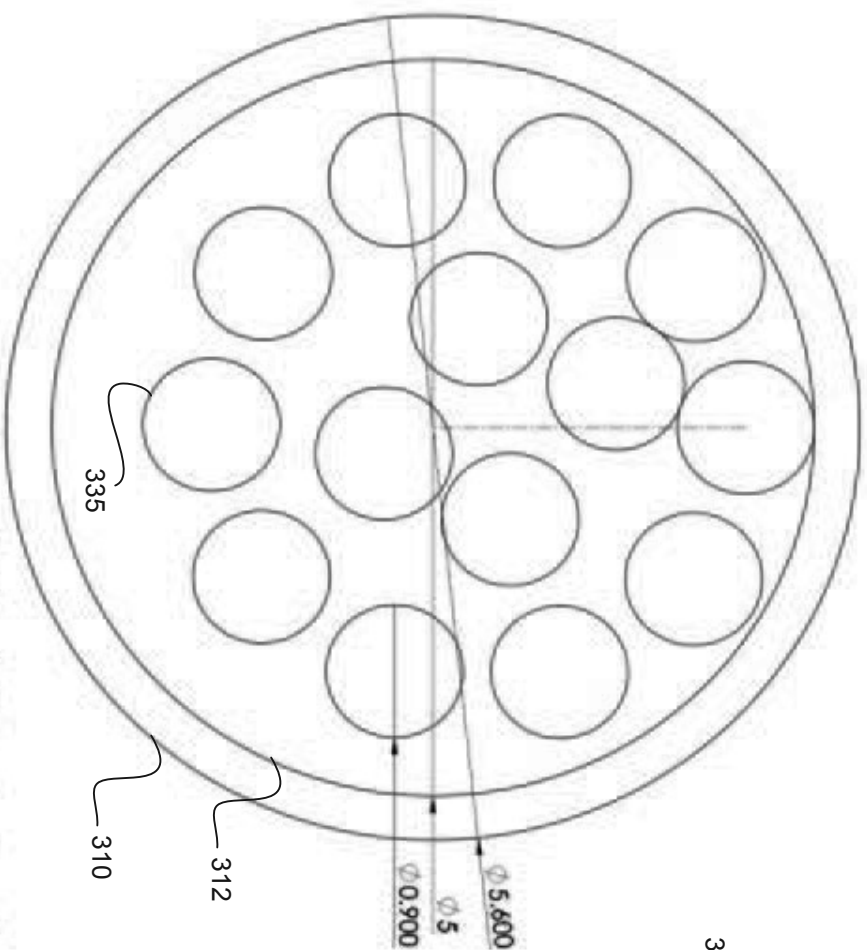


FIG. 7E



Cross sectional area of 14 sheaths ($\phi 0.9mm$) : 8.9 mm^2

Cross sectional area of internal space of the coiled shaft ($\phi ID\ 5.0\text{ mm}$) : 19.625 mm^2 Space ratio : 0.546

Cross sectional area of internal space of the coiled shaft ($\phi ID\ 4.4\text{ mm}$) : 15.2 mm^2 Space ratio : 0.41

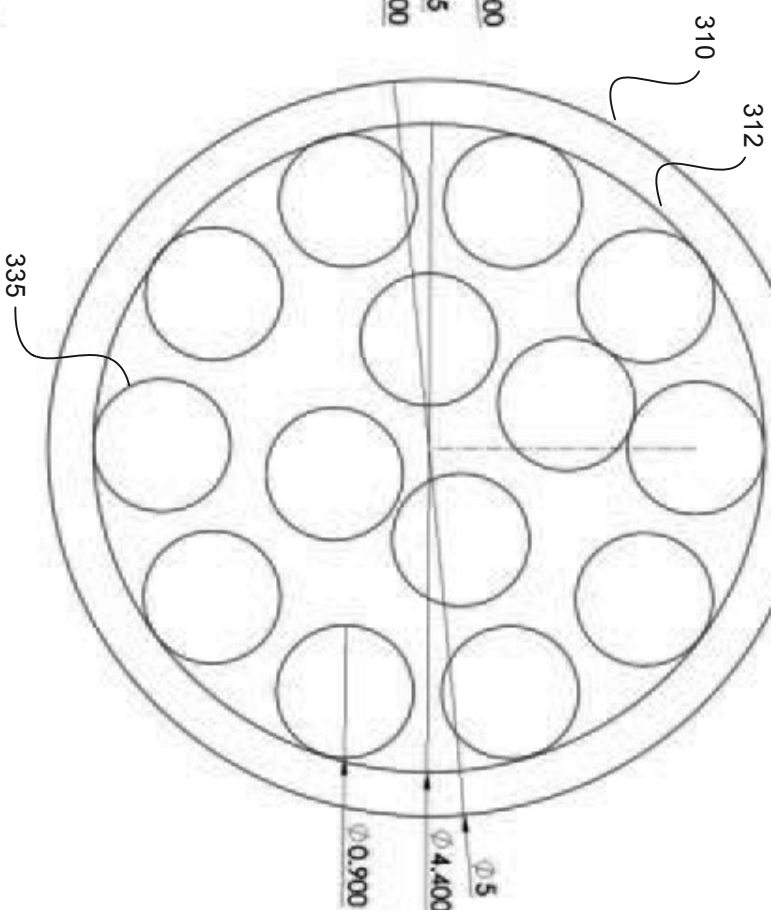


FIG. 7D

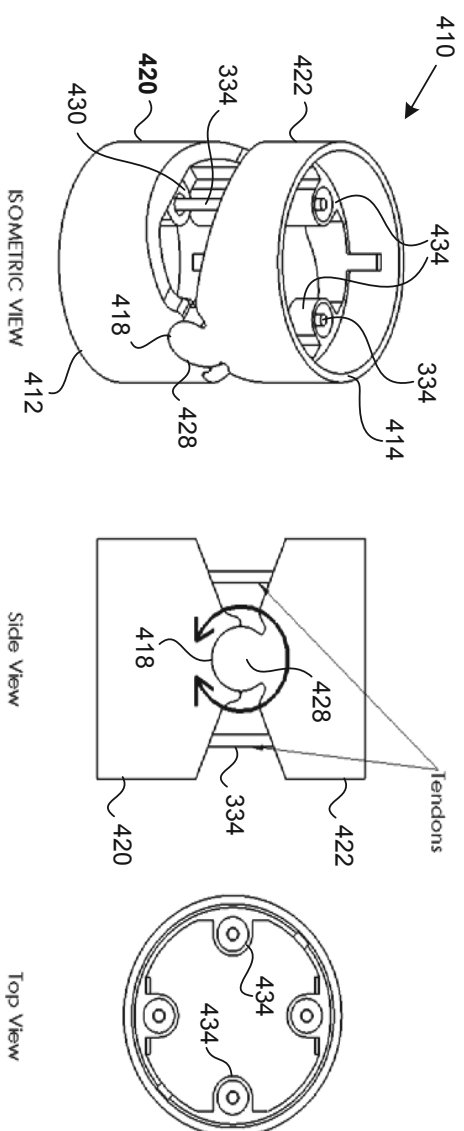


FIG. 8A

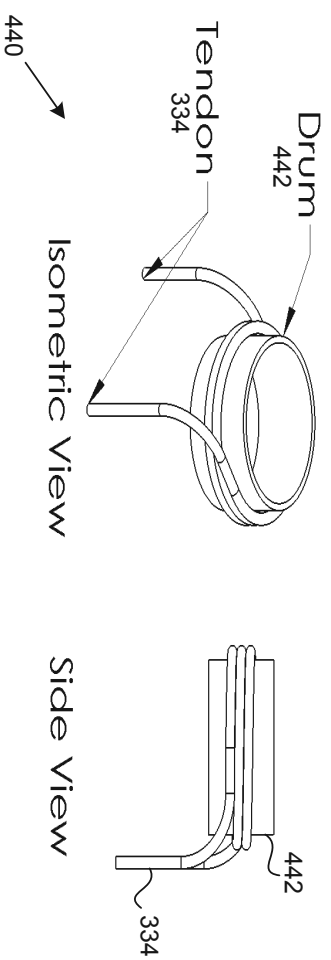


FIG. 8B

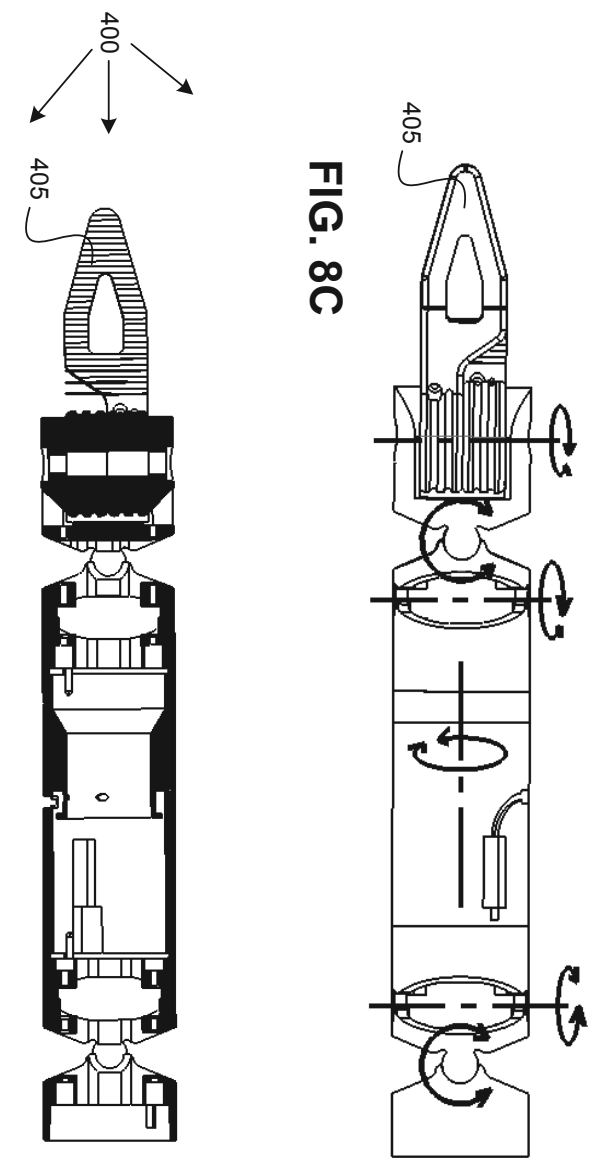


FIG. 8C

FIG. 8D Cross-section View

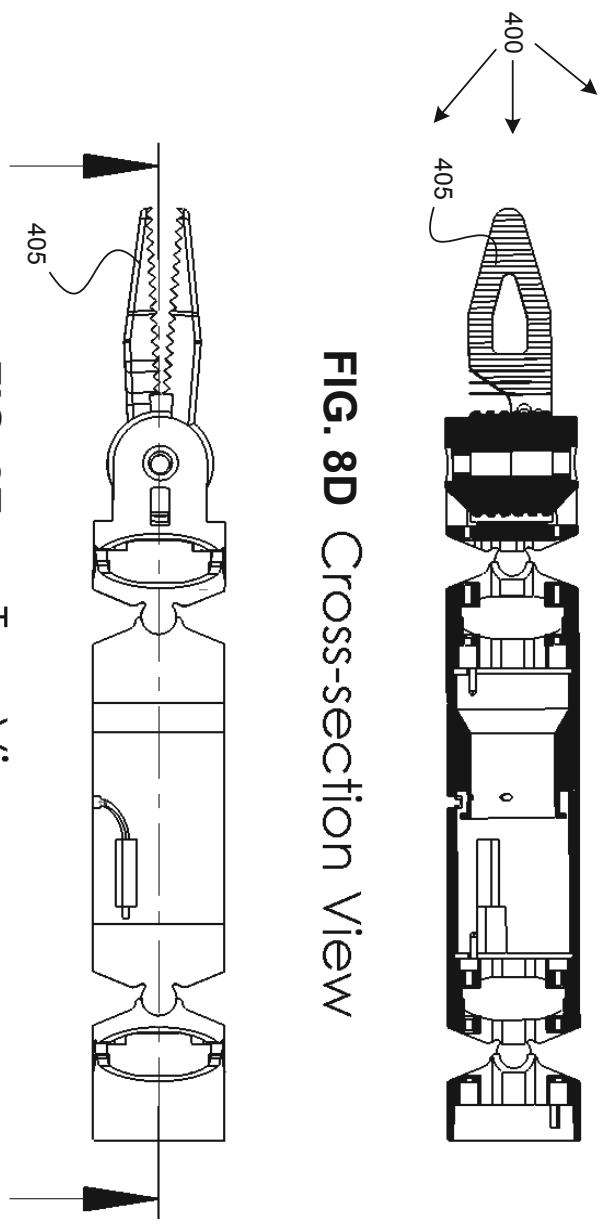
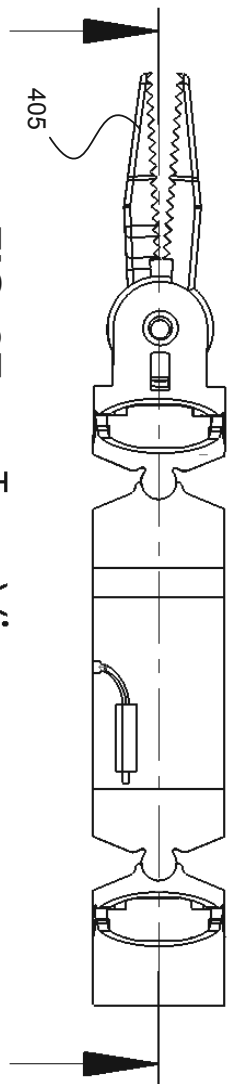


FIG. 8E Top View



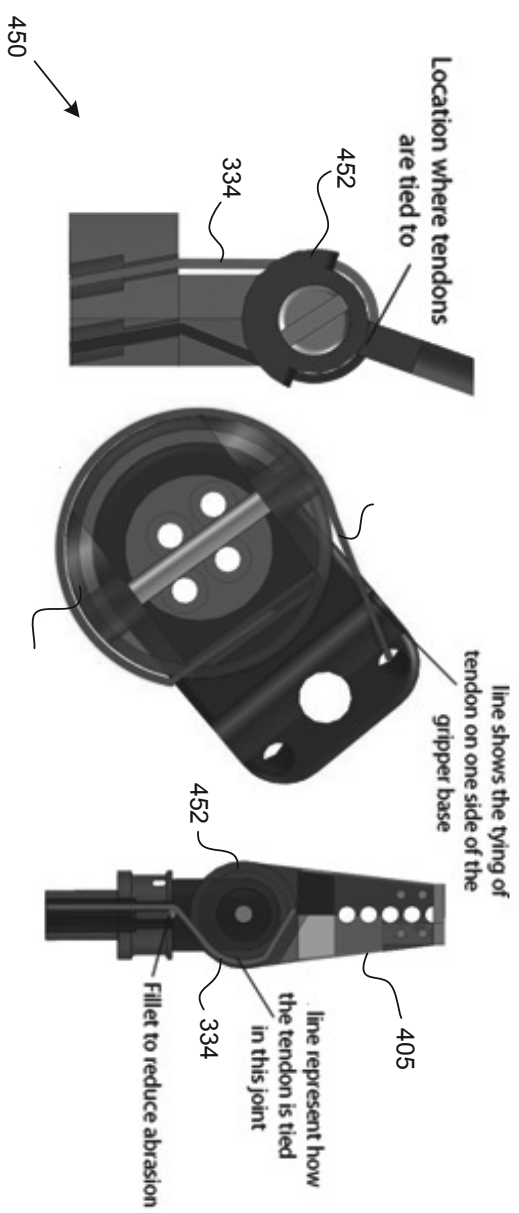


FIG. 9A

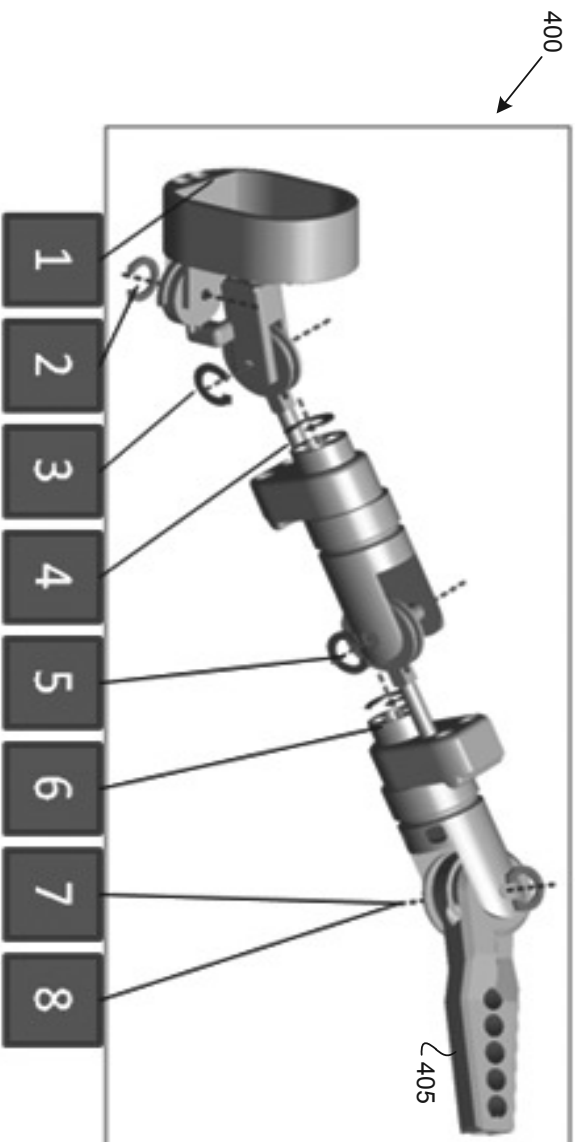
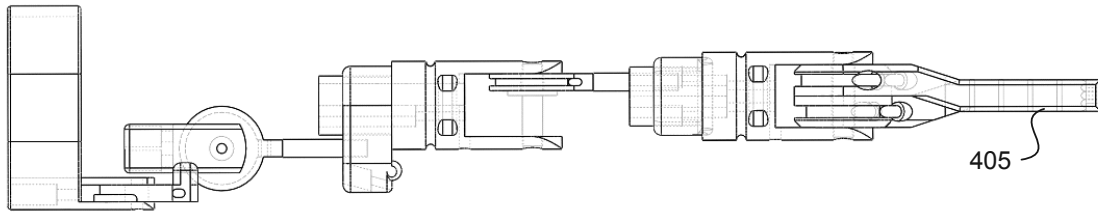
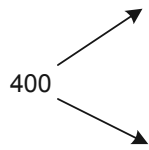


FIG. 9B

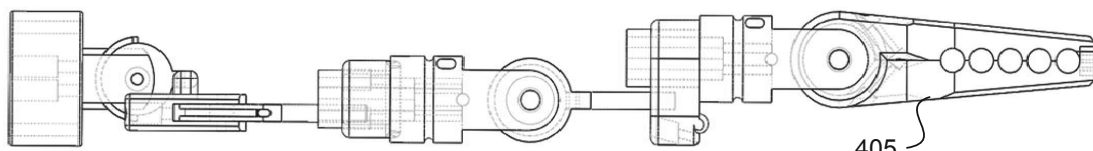


Side View

FIG. 9C

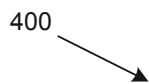


400

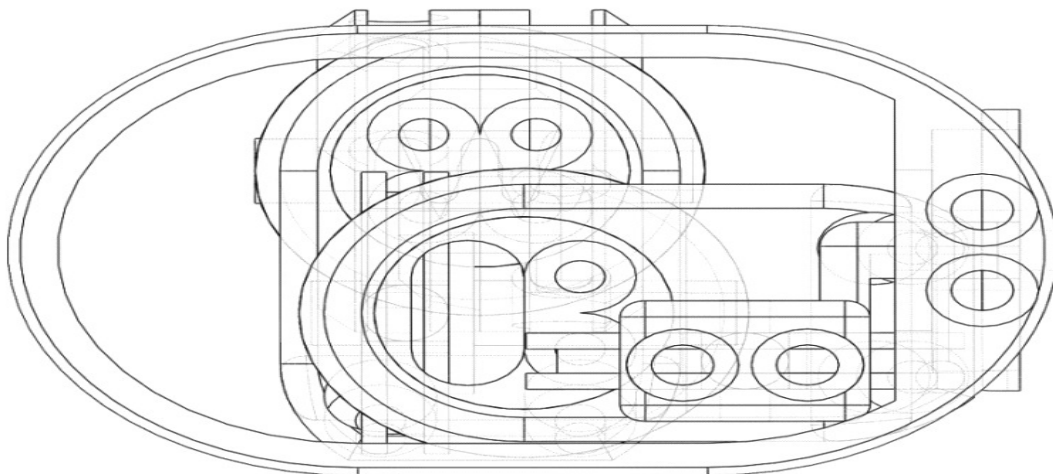


Plan View

FIG. 9D



400



Front View

FIG. 9E

FIG. 10A

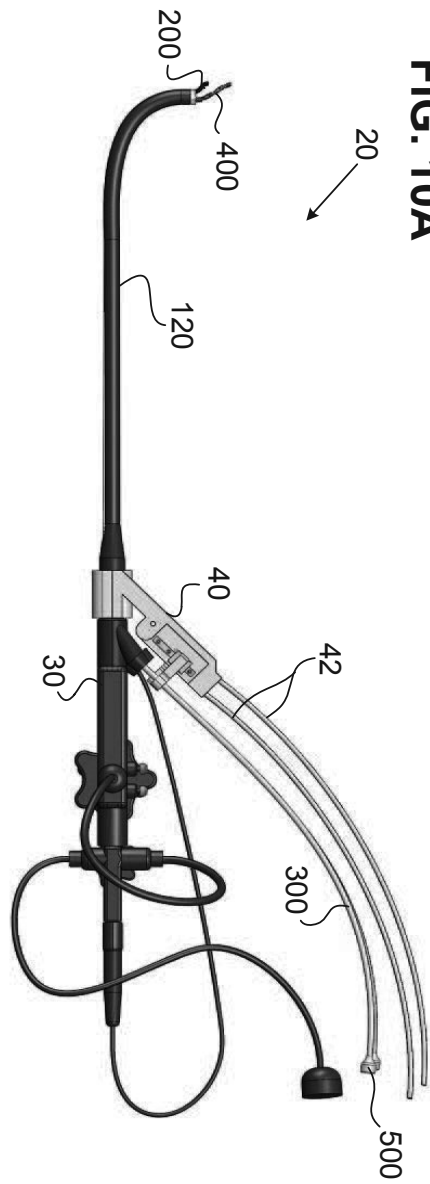
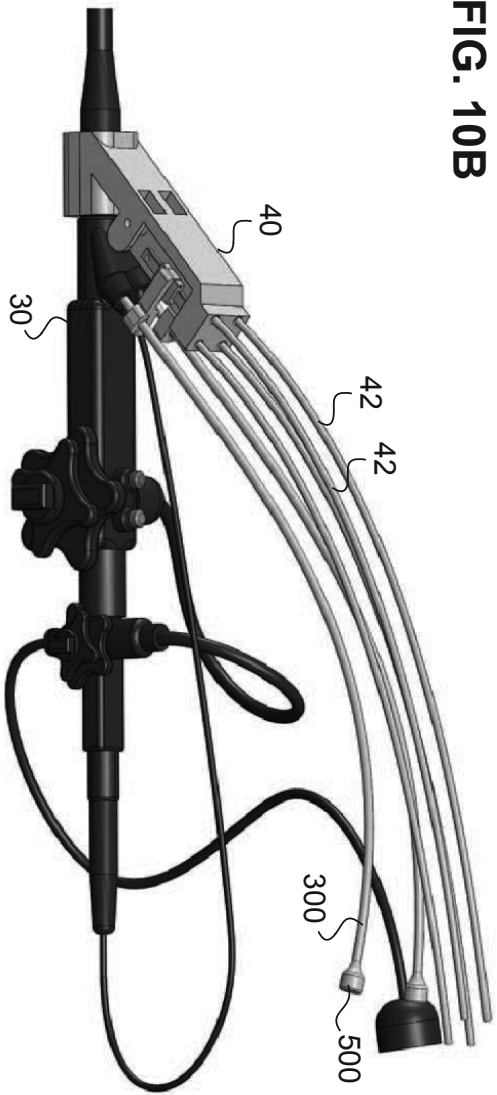


FIG. 10B



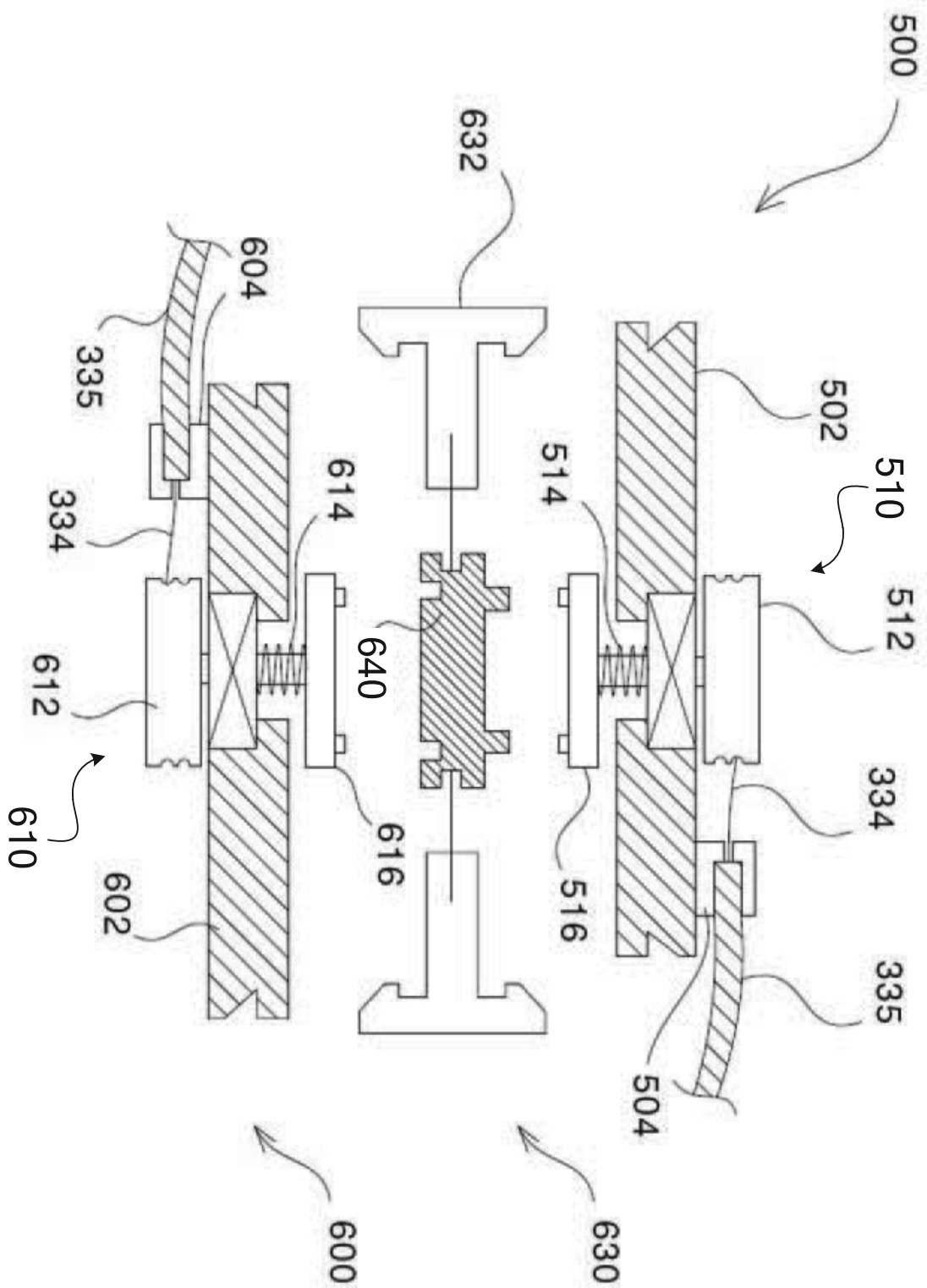


FIG. 11A

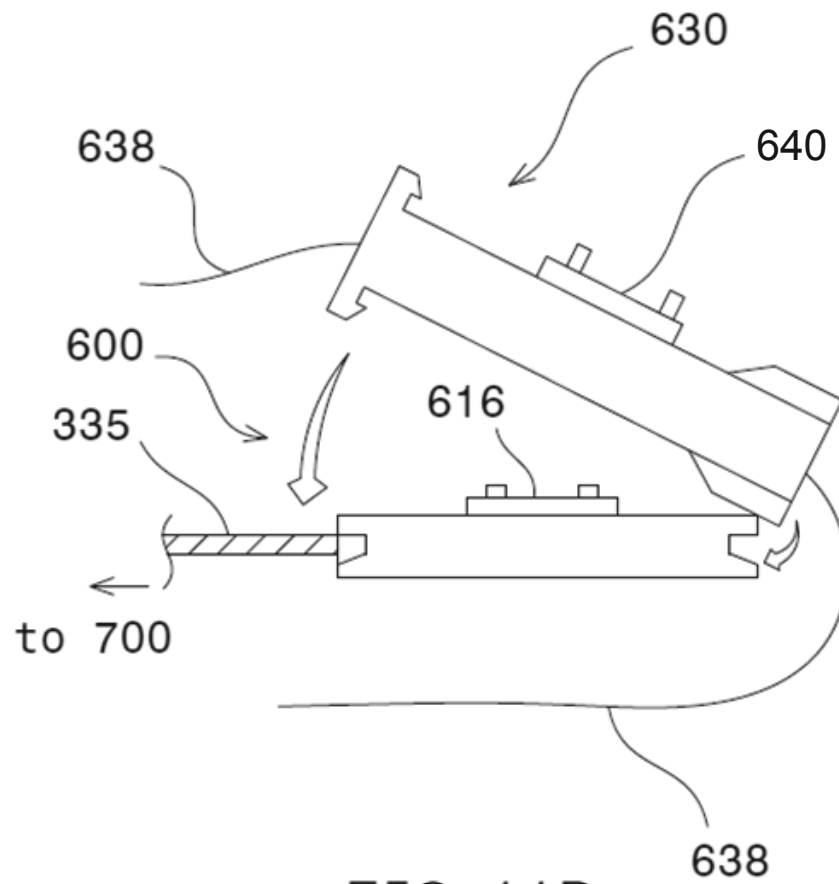


FIG. 11B

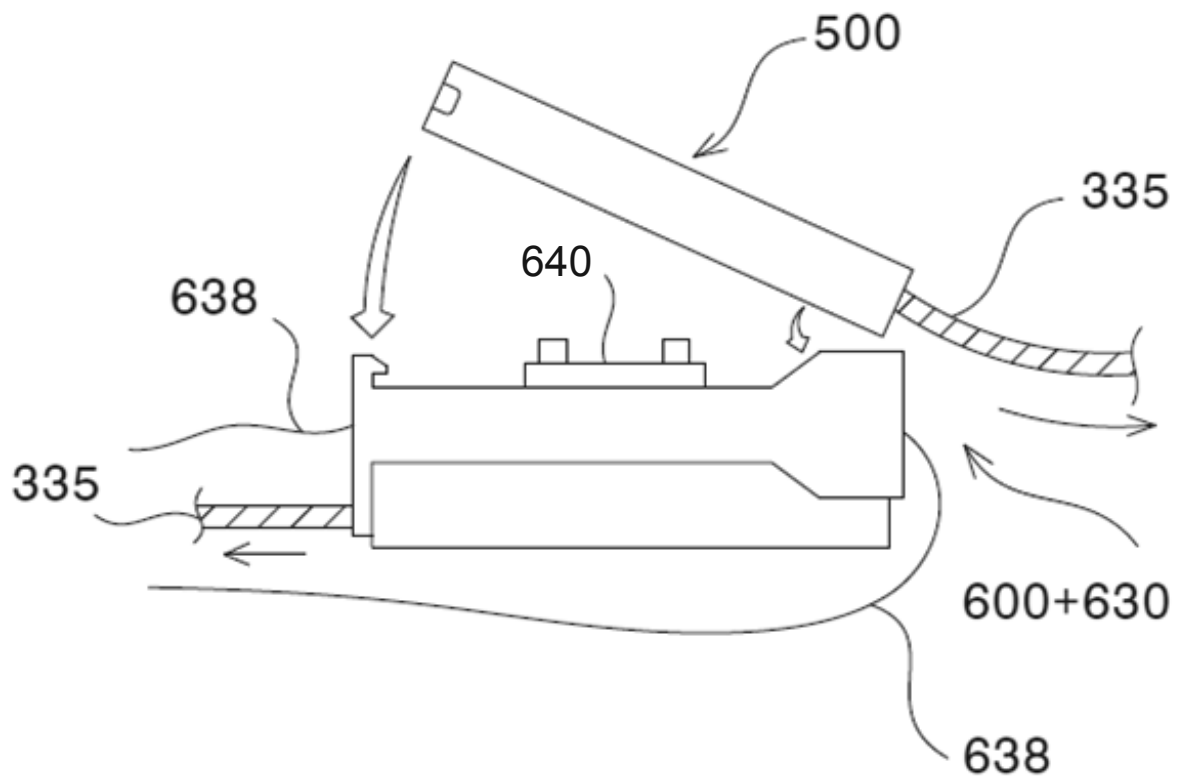


FIG. 11C

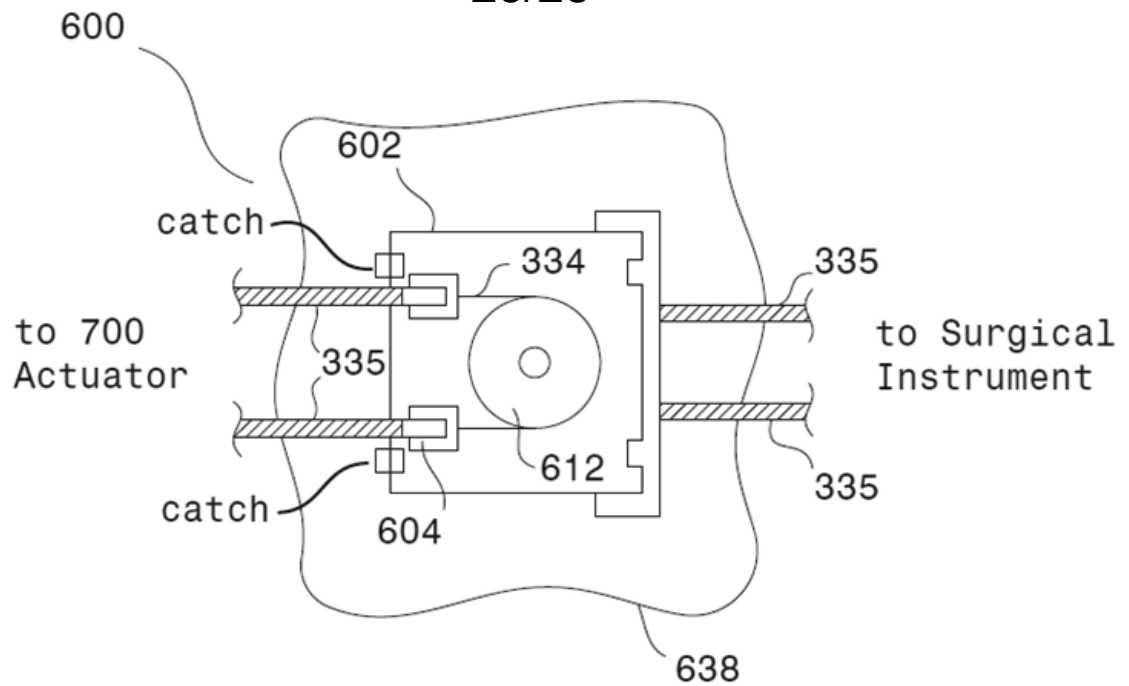


FIG. 11D

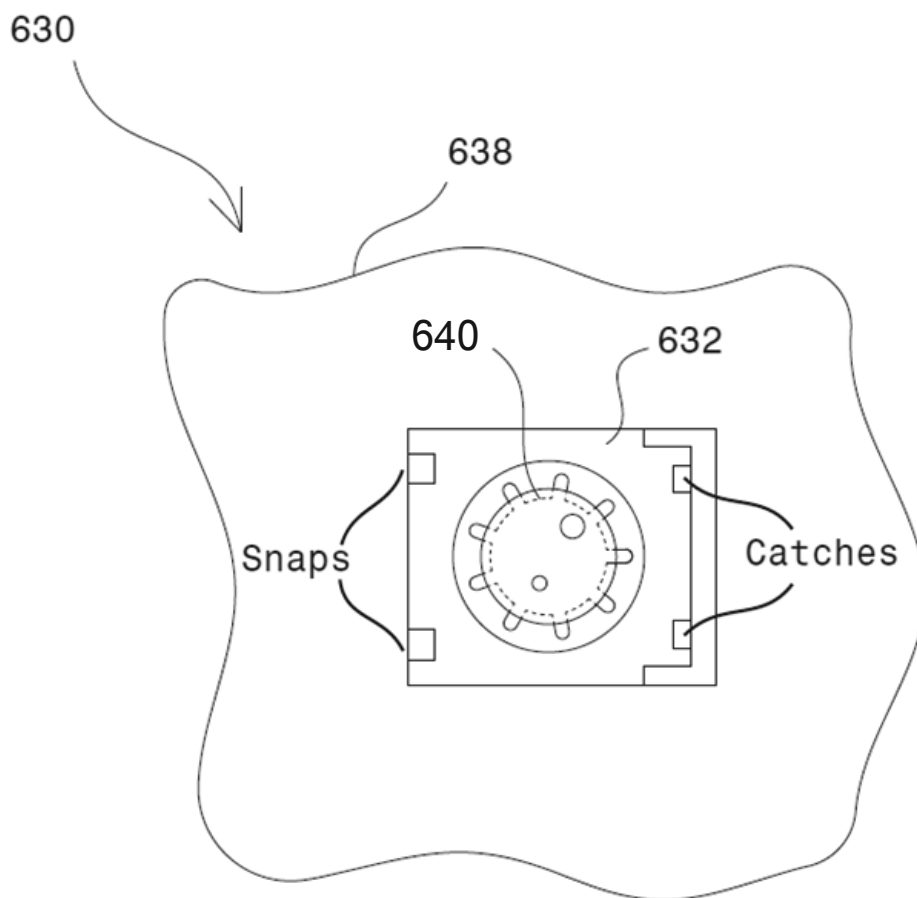


FIG. 11E

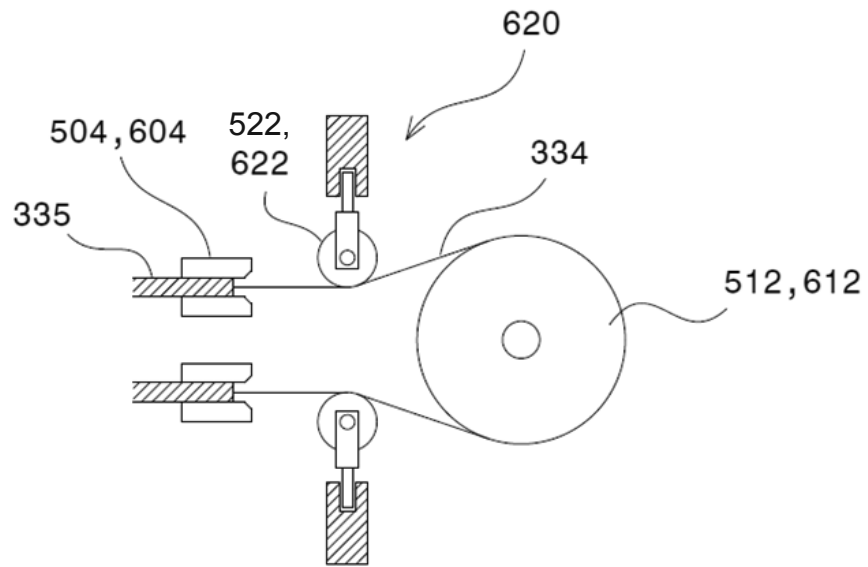


FIG. 11F

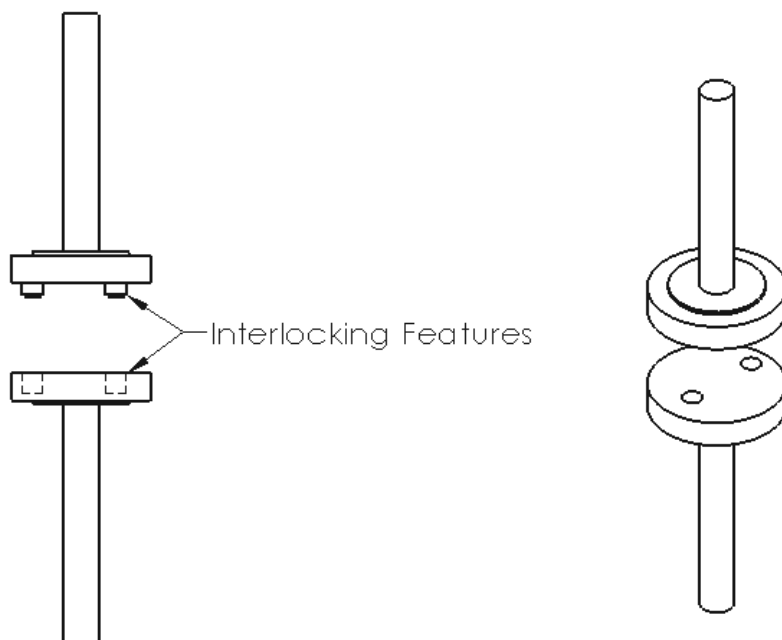


FIG. 11G

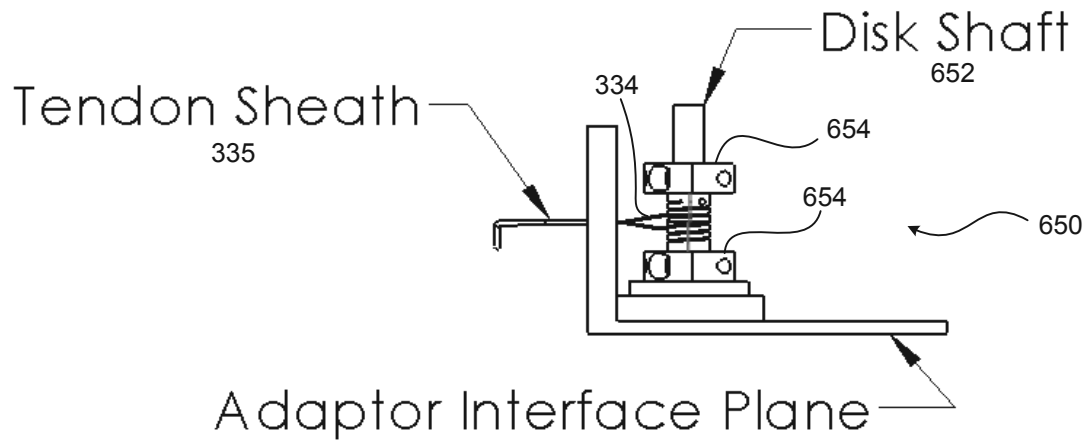


FIG. 11H

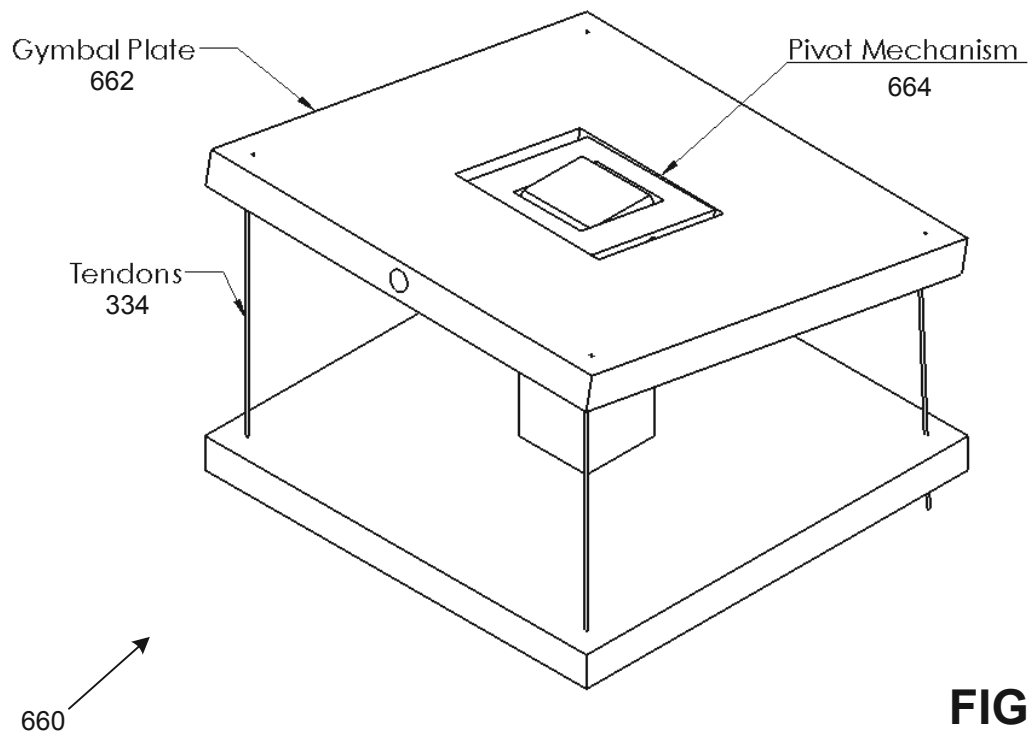
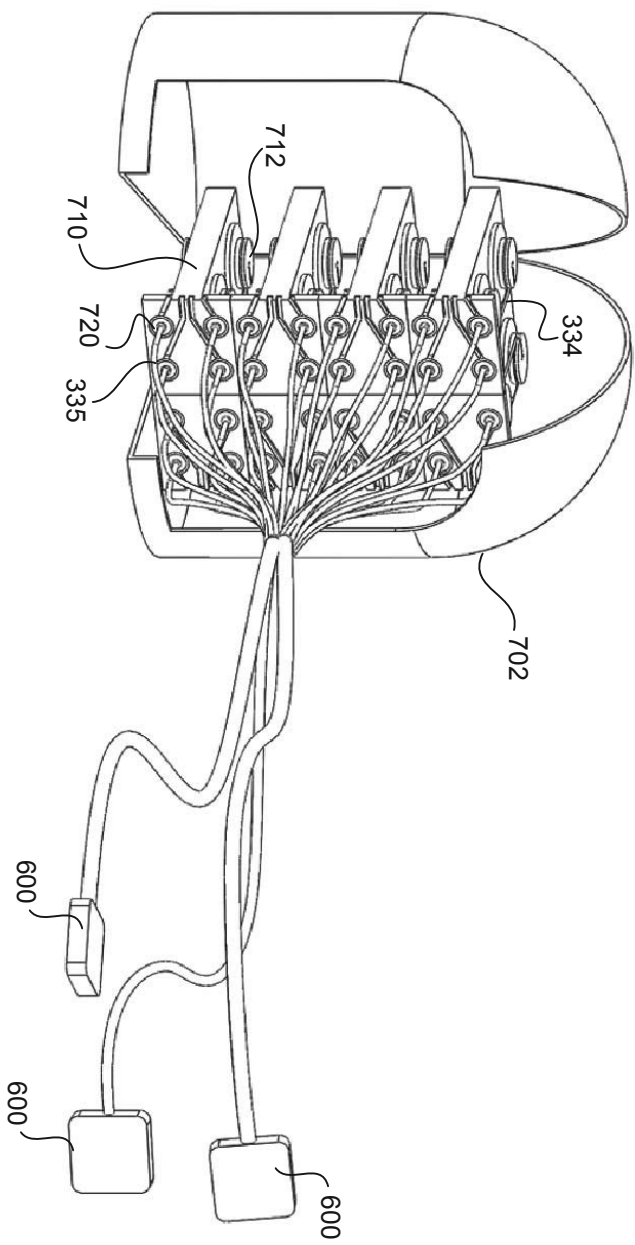


FIG. 11I



700

FIG. 12