

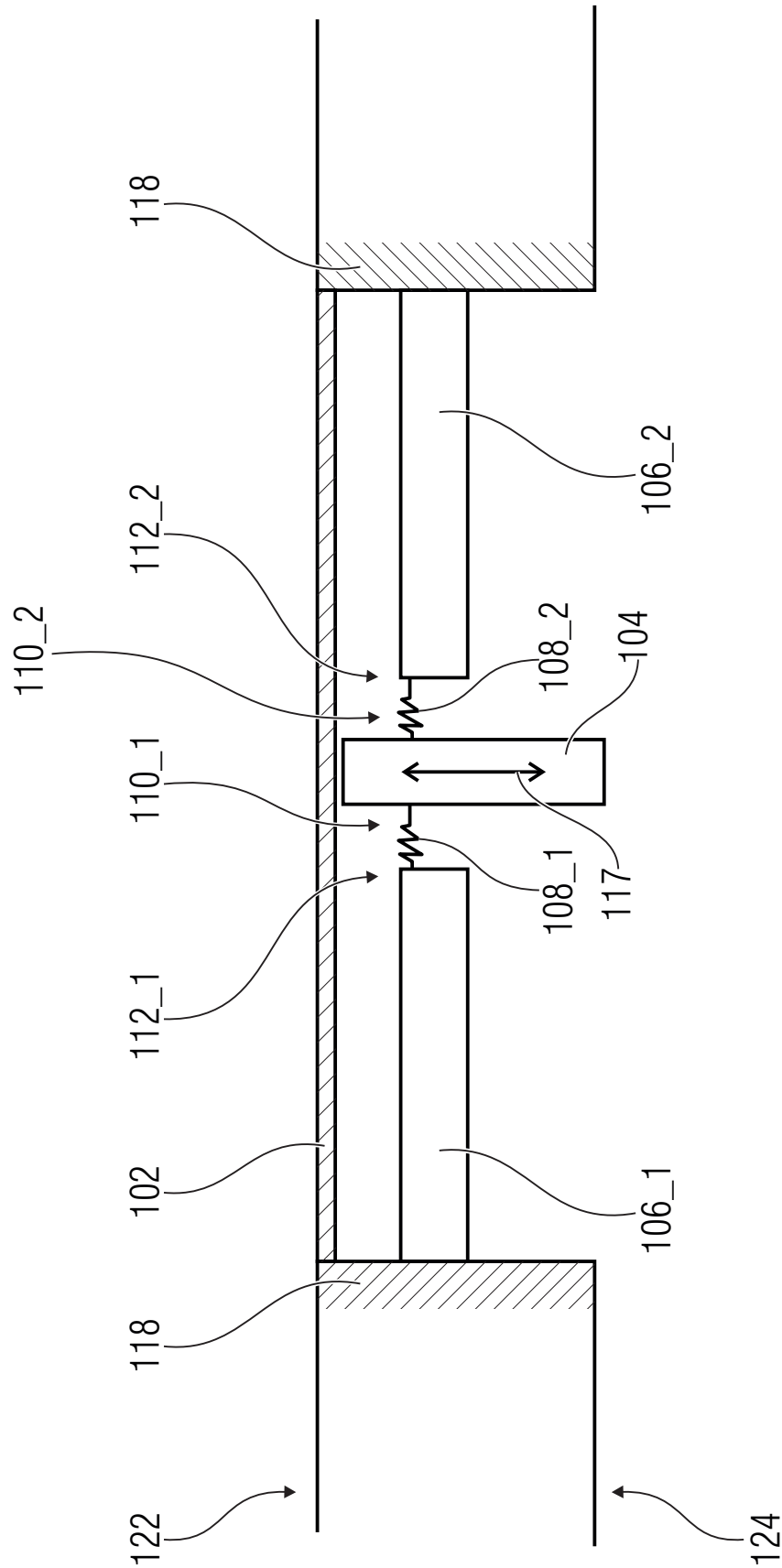


FIGURE 1A

100

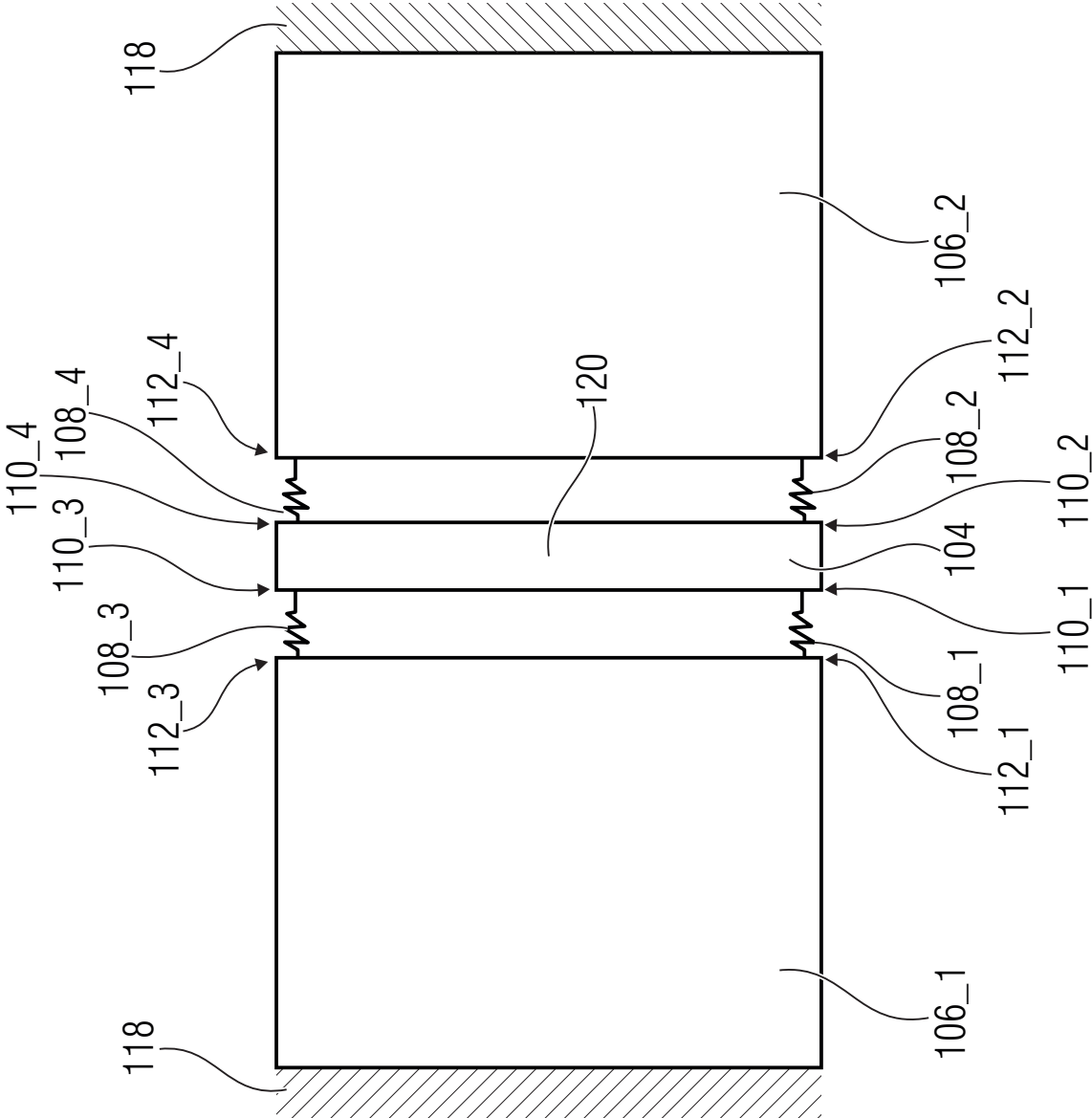


FIGURE 1B

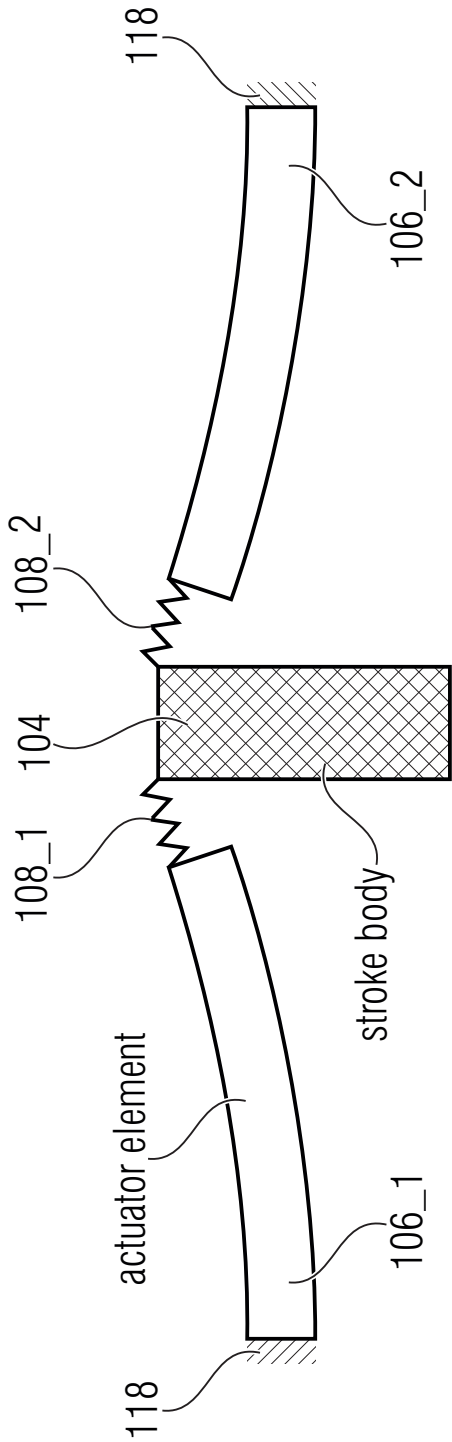


FIGURE 2A

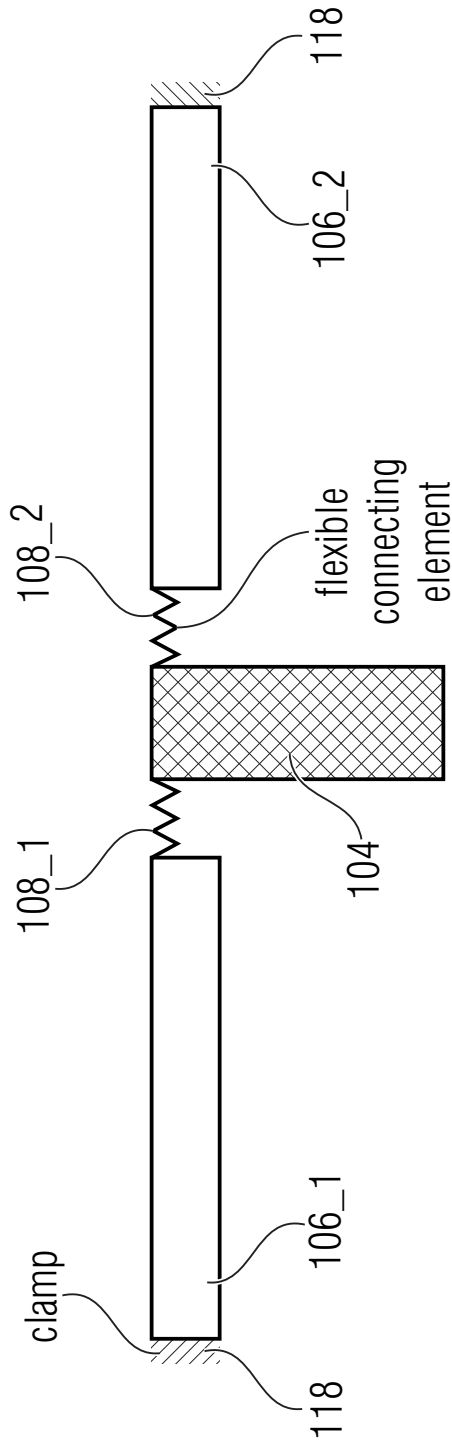


FIGURE 2B

passive piezoelectric layer

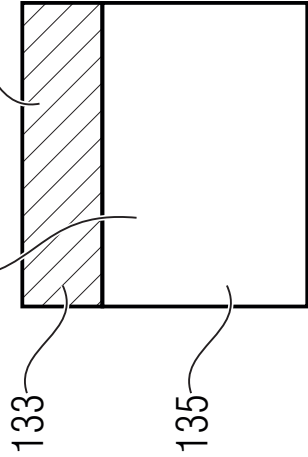


FIGURE 3A

133a

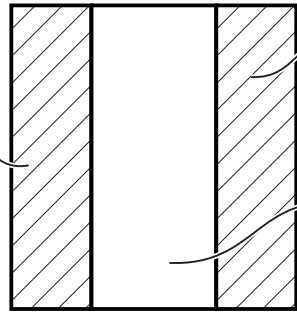


FIGURE 3B

133a

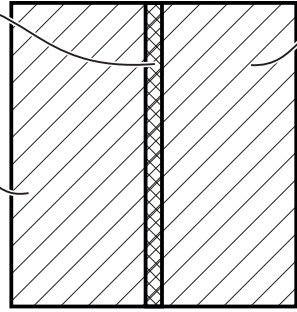


FIGURE 3C

separation layer

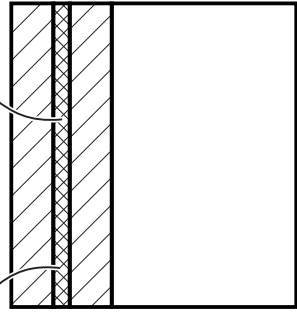


FIGURE 3D

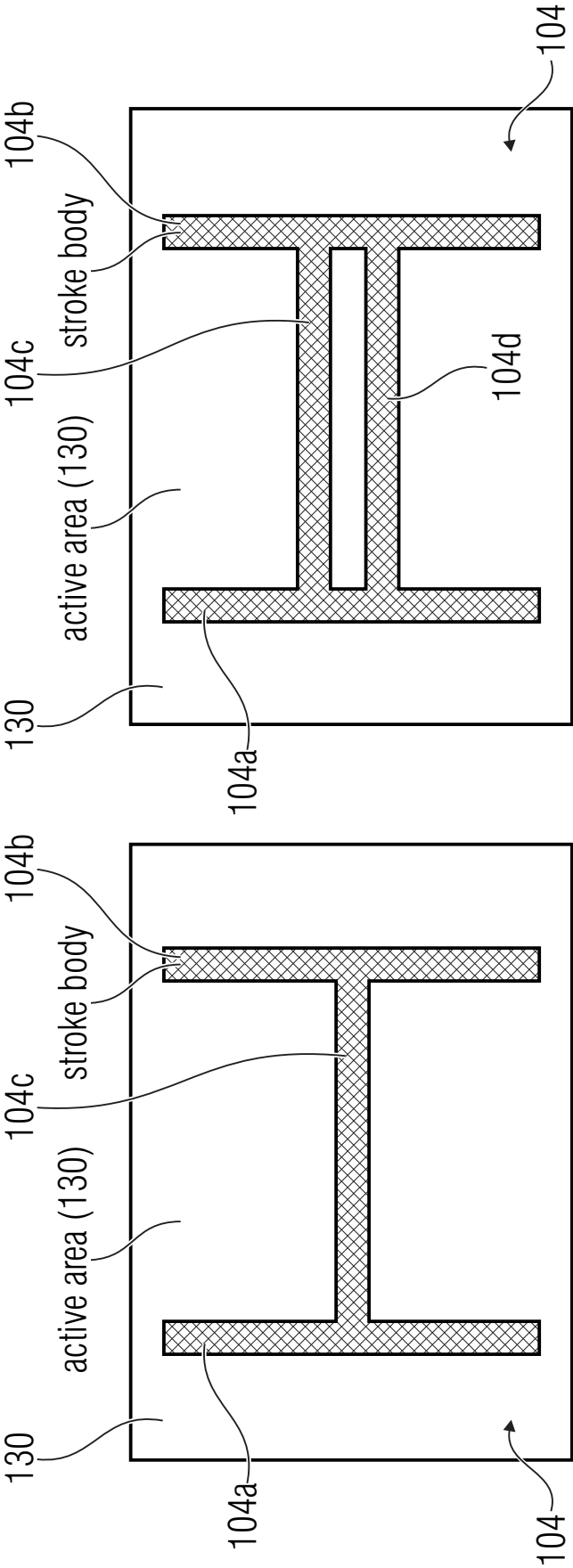


FIGURE 4B

FIGURE 4A

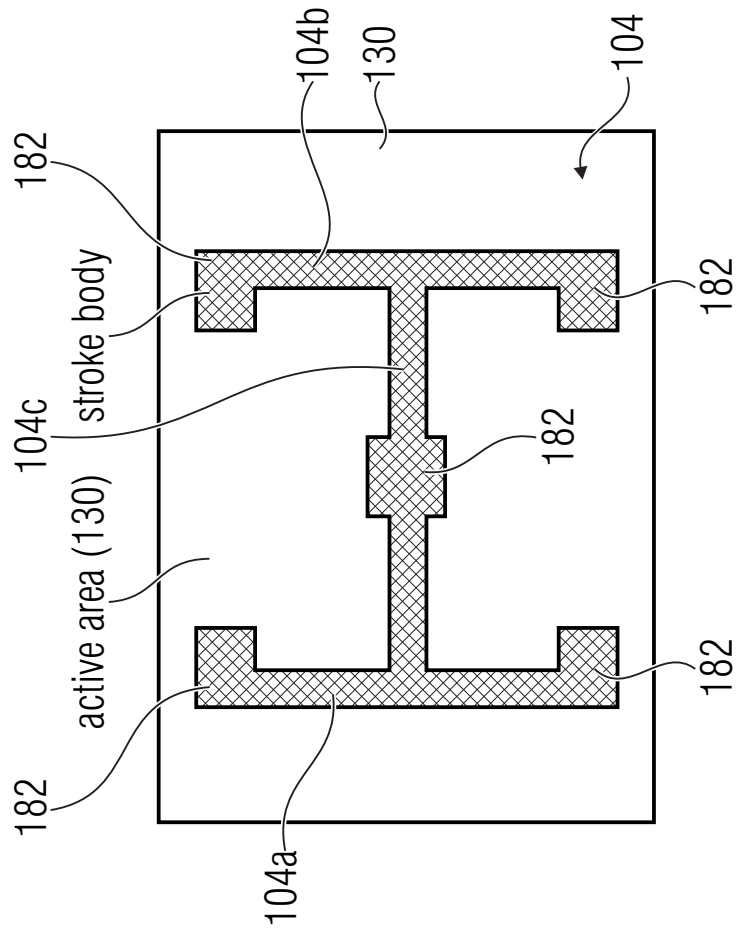


FIGURE 4C

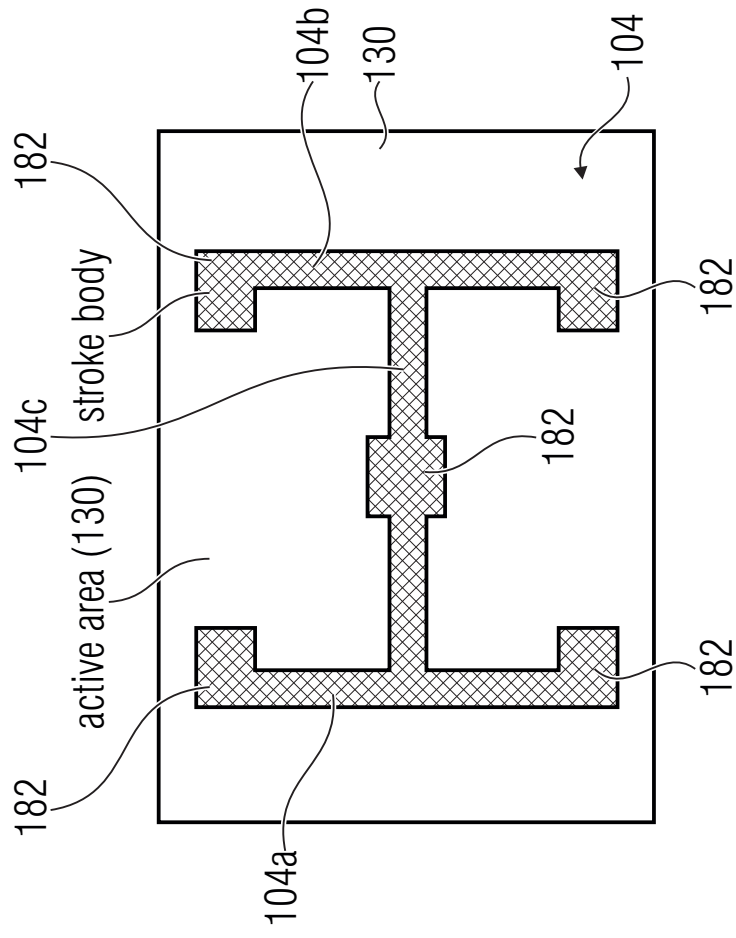


FIGURE 4D

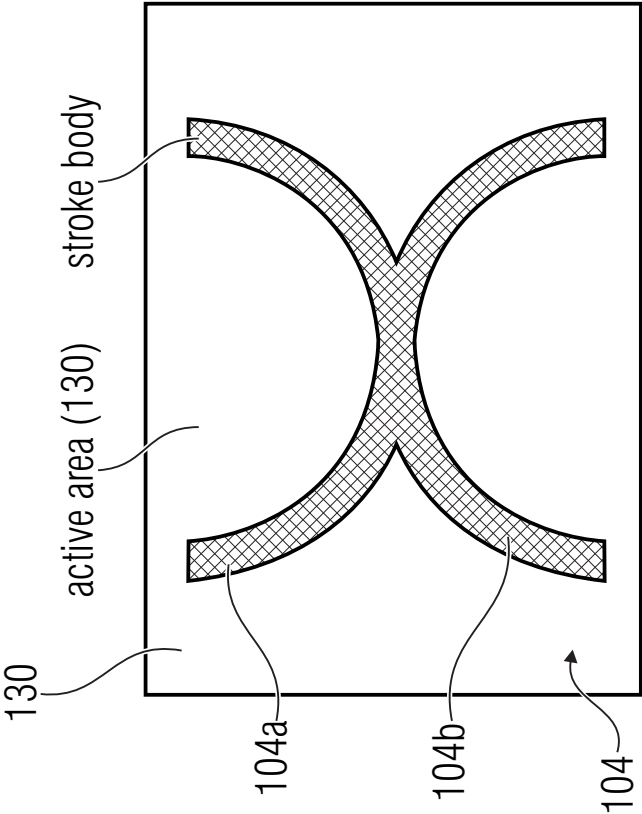


FIGURE 4E

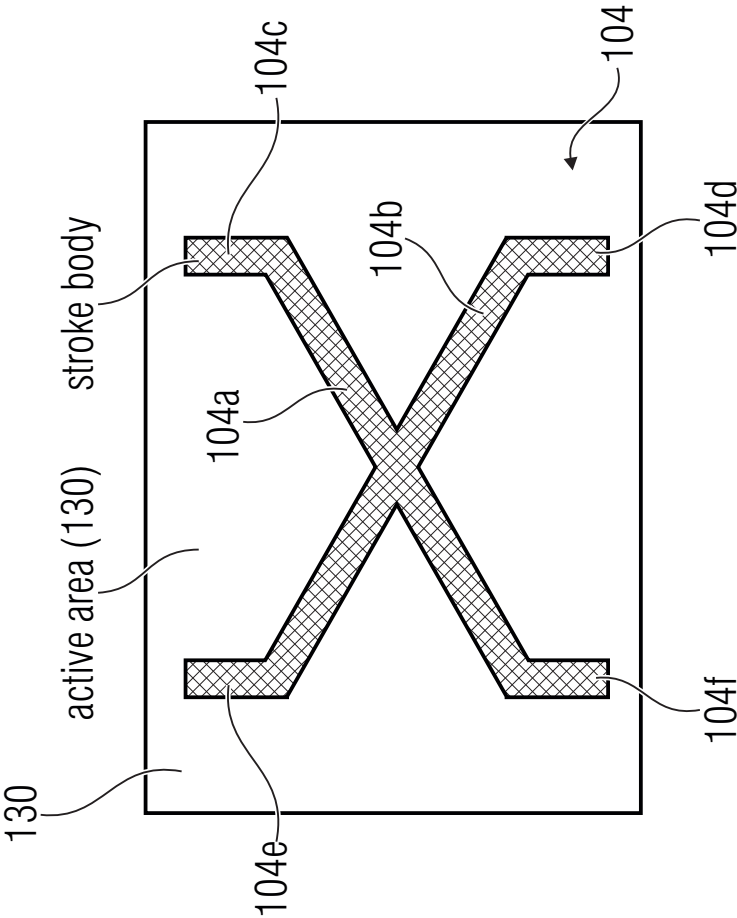


FIGURE 4F

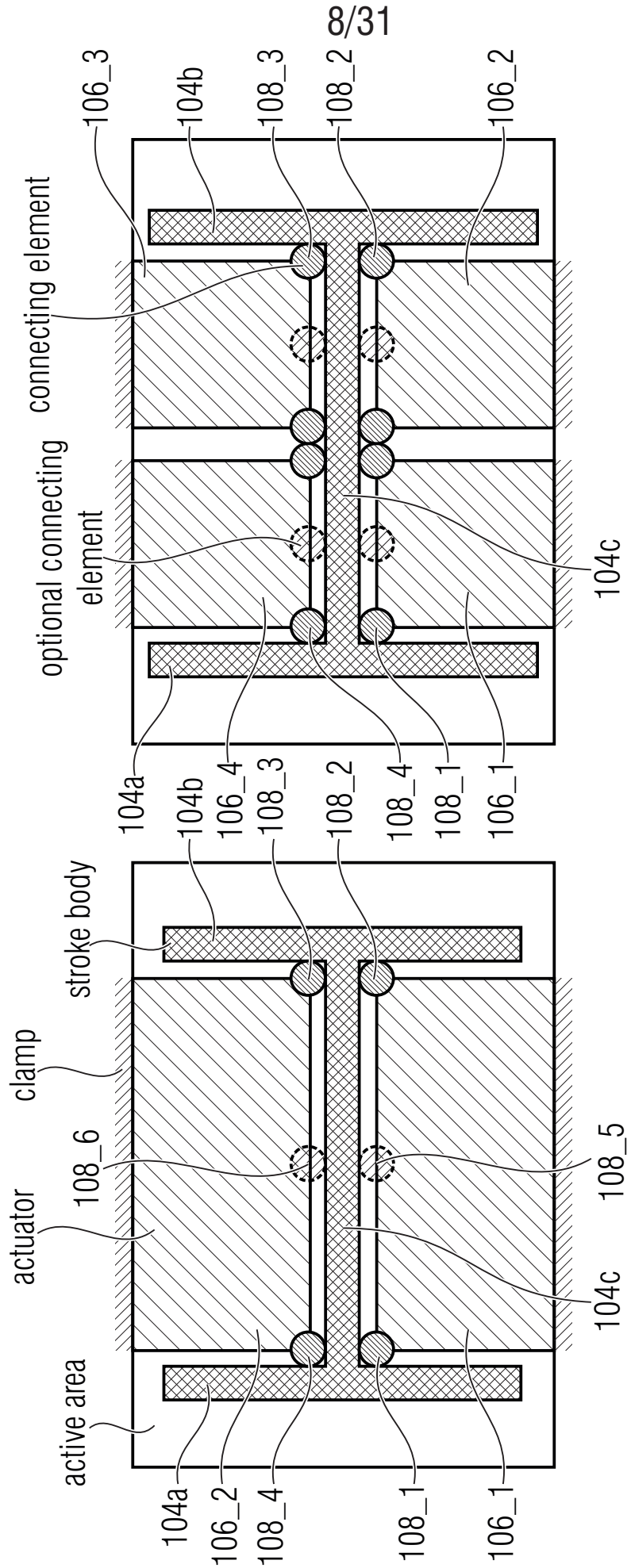


FIGURE 5A

FIGURE 5B

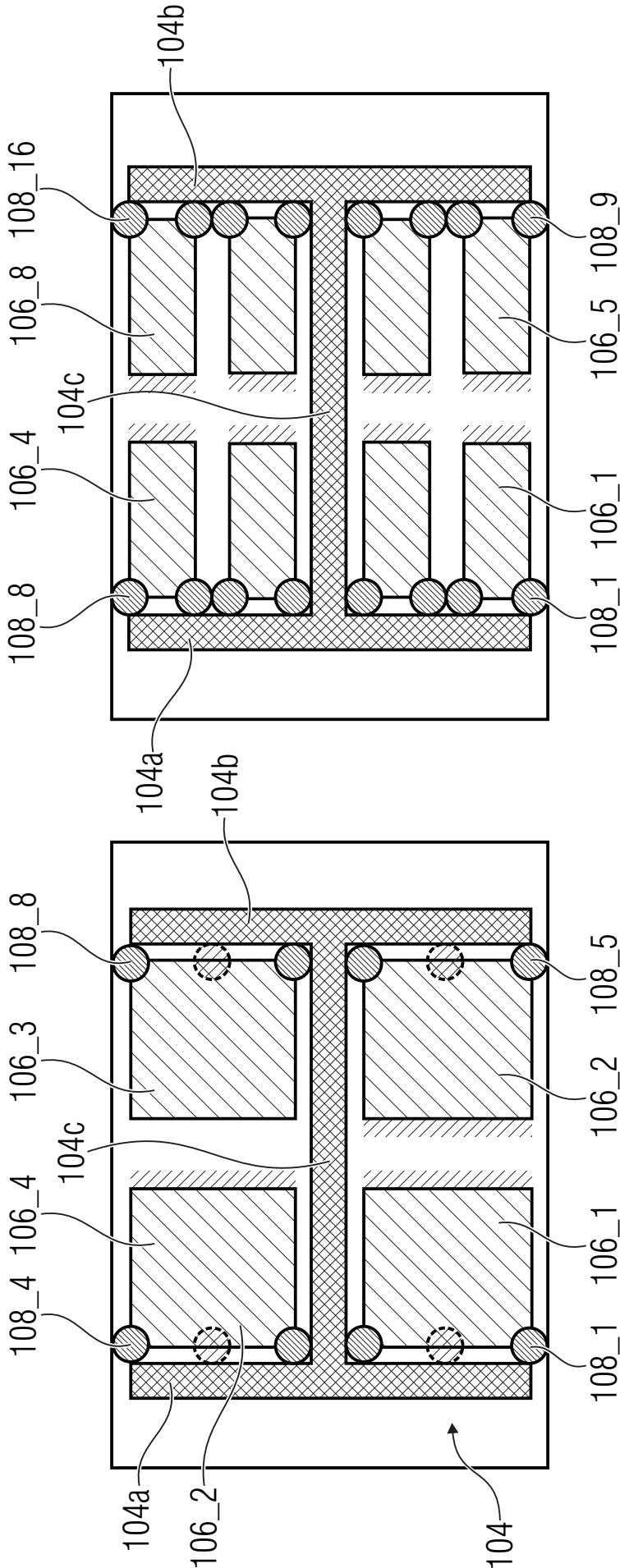
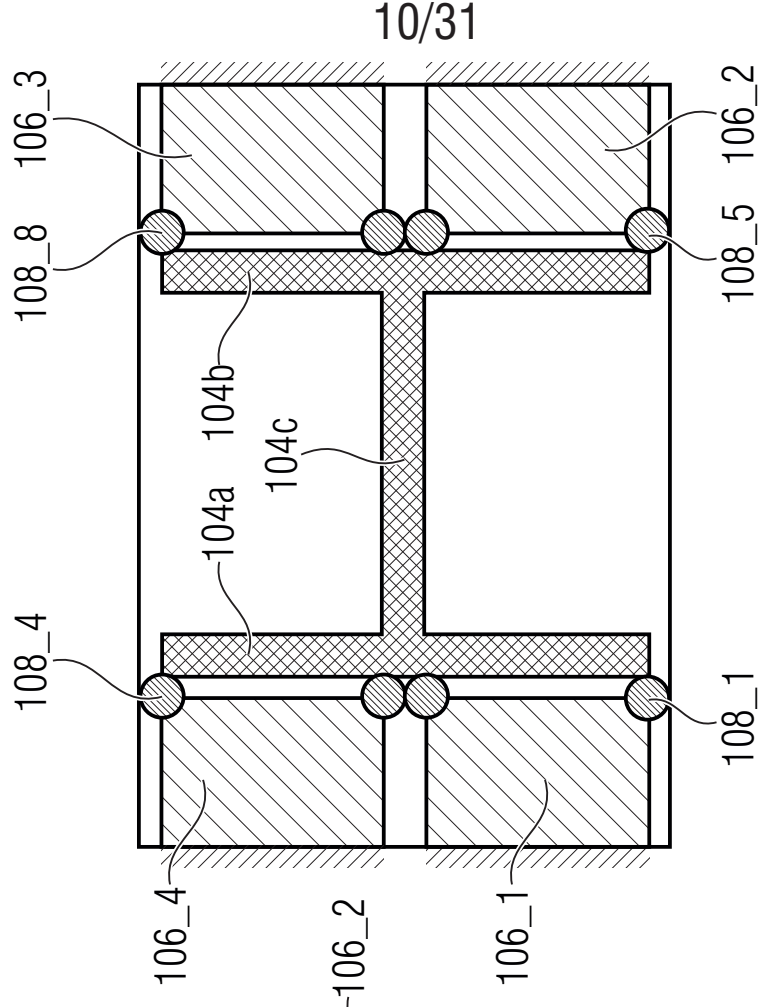
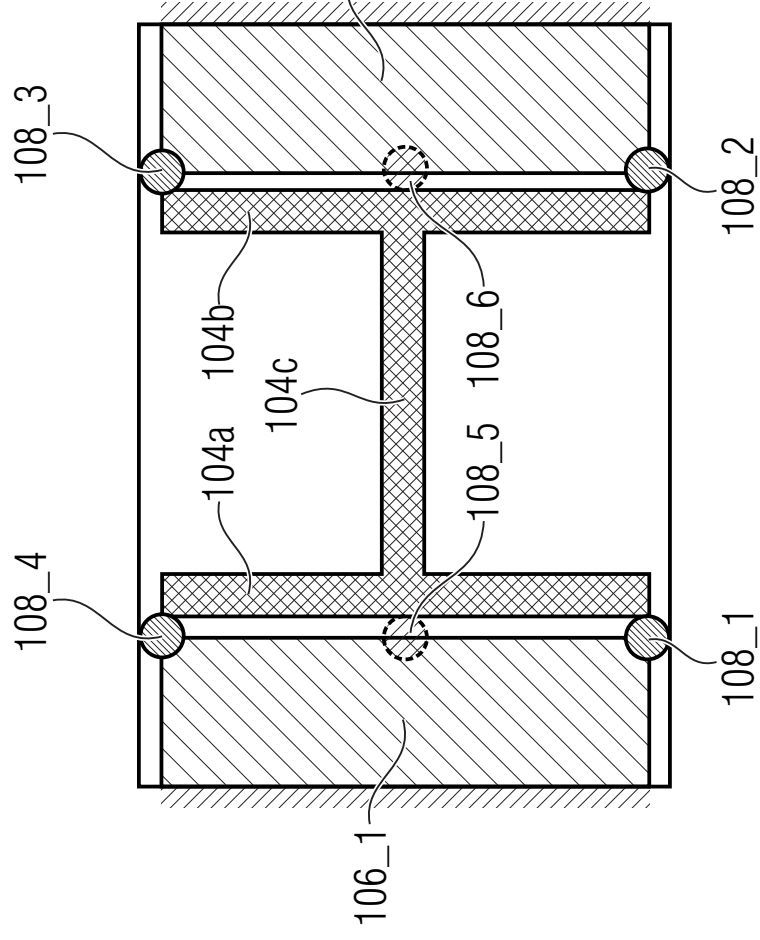


FIGURE 5D

FIGURE 5C



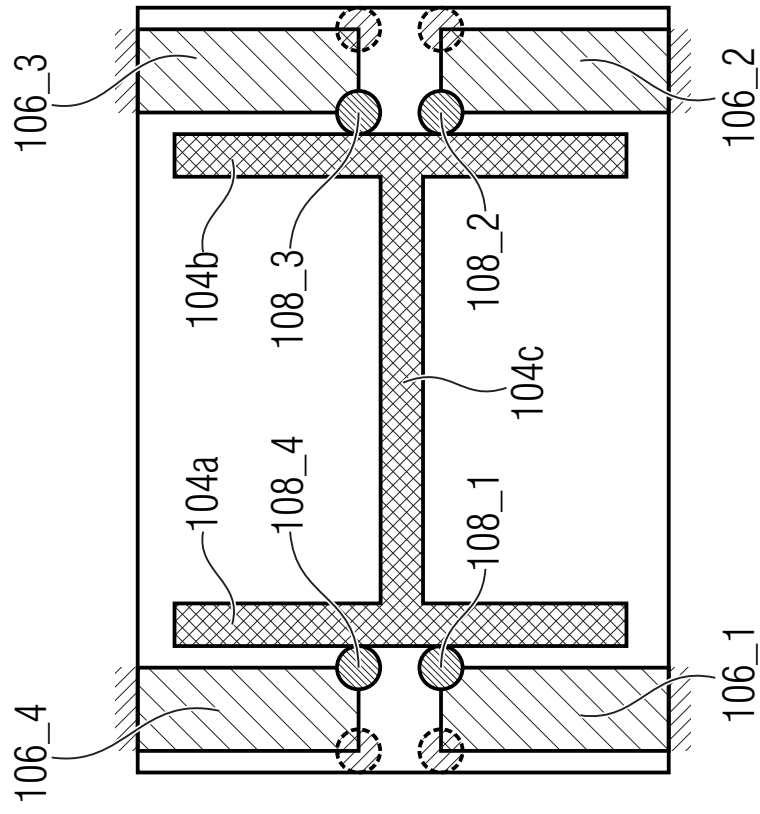
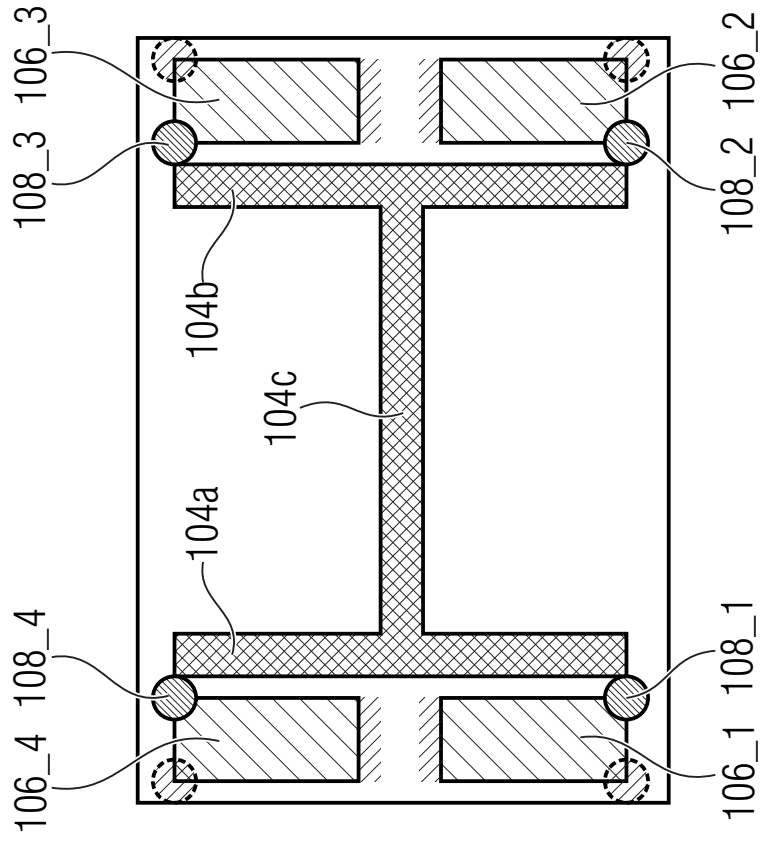


FIGURE 5H



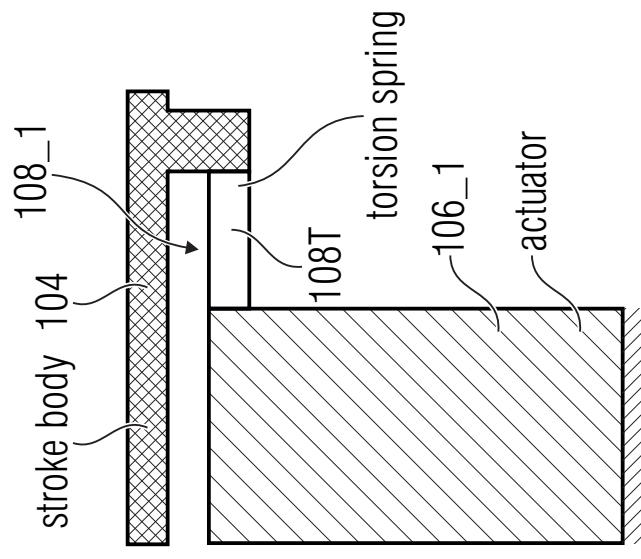


FIGURE 6B

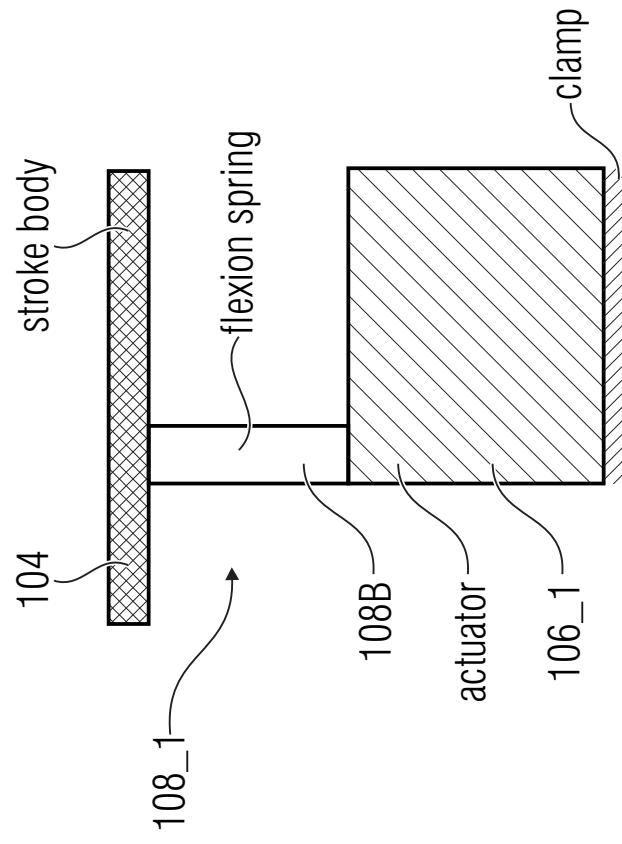


FIGURE 6A

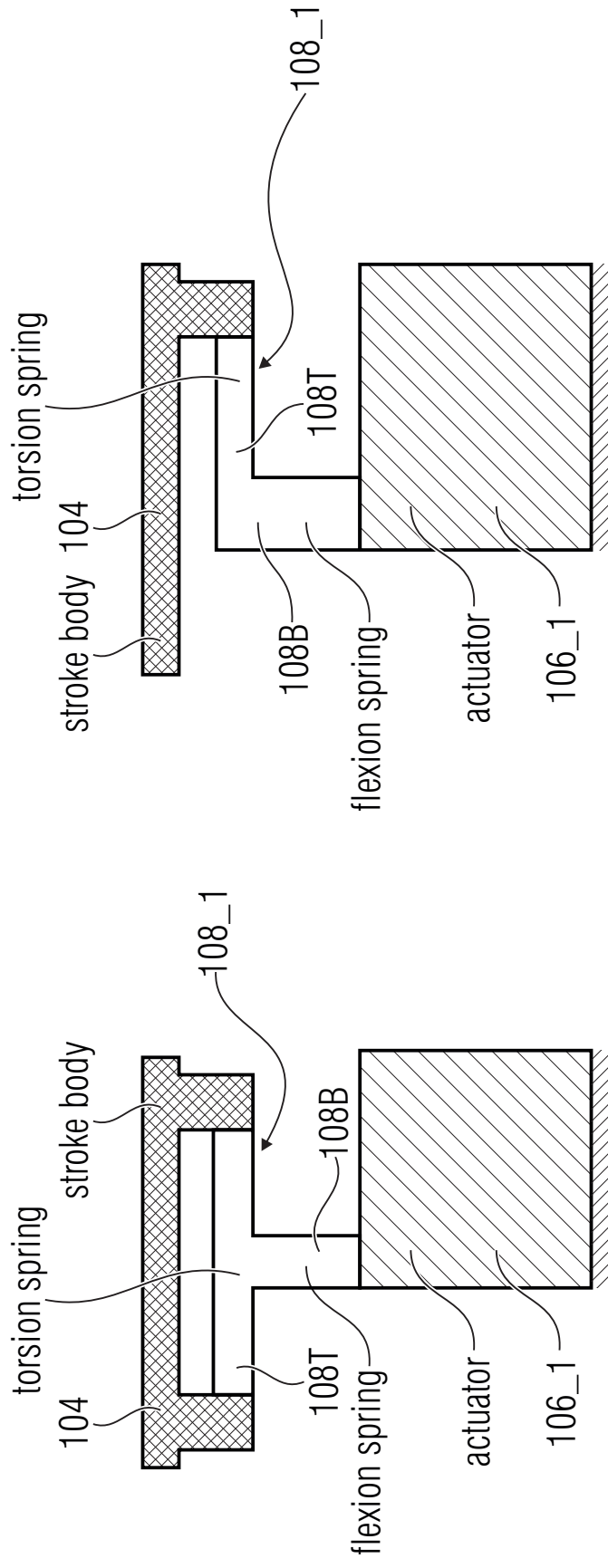


FIGURE 6C

FIGURE 6D

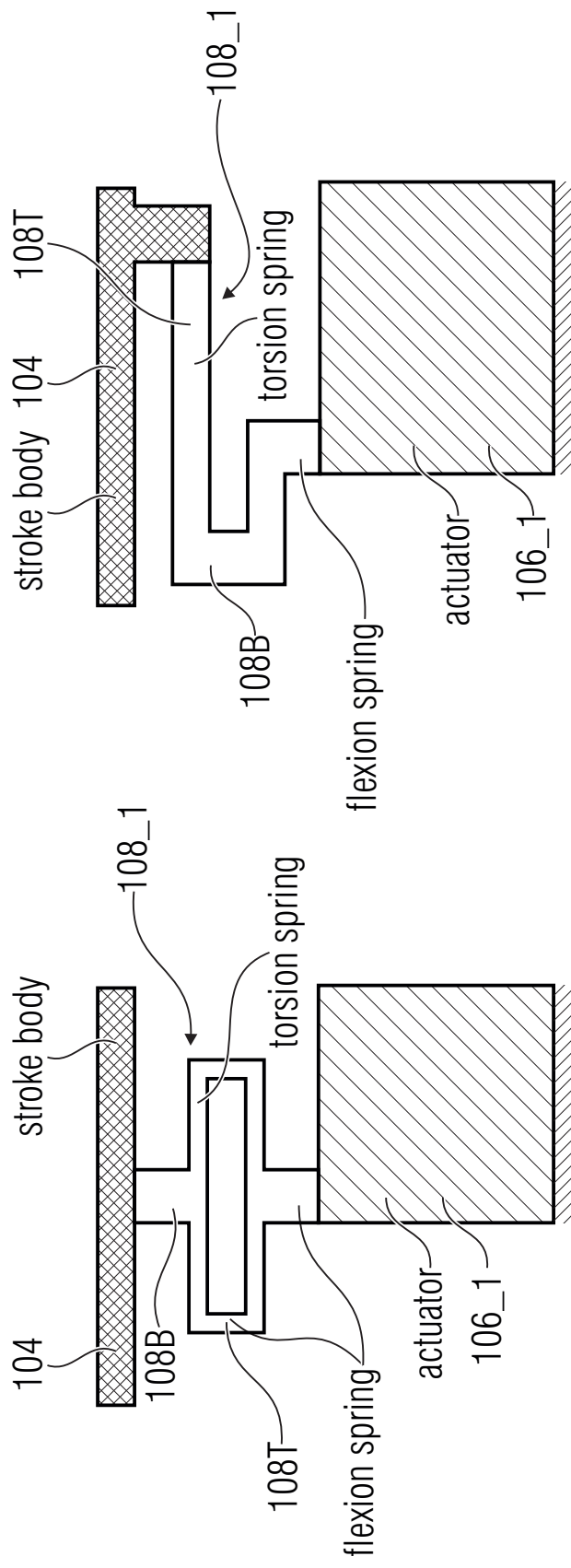


FIGURE 6E

FIGURE 6F

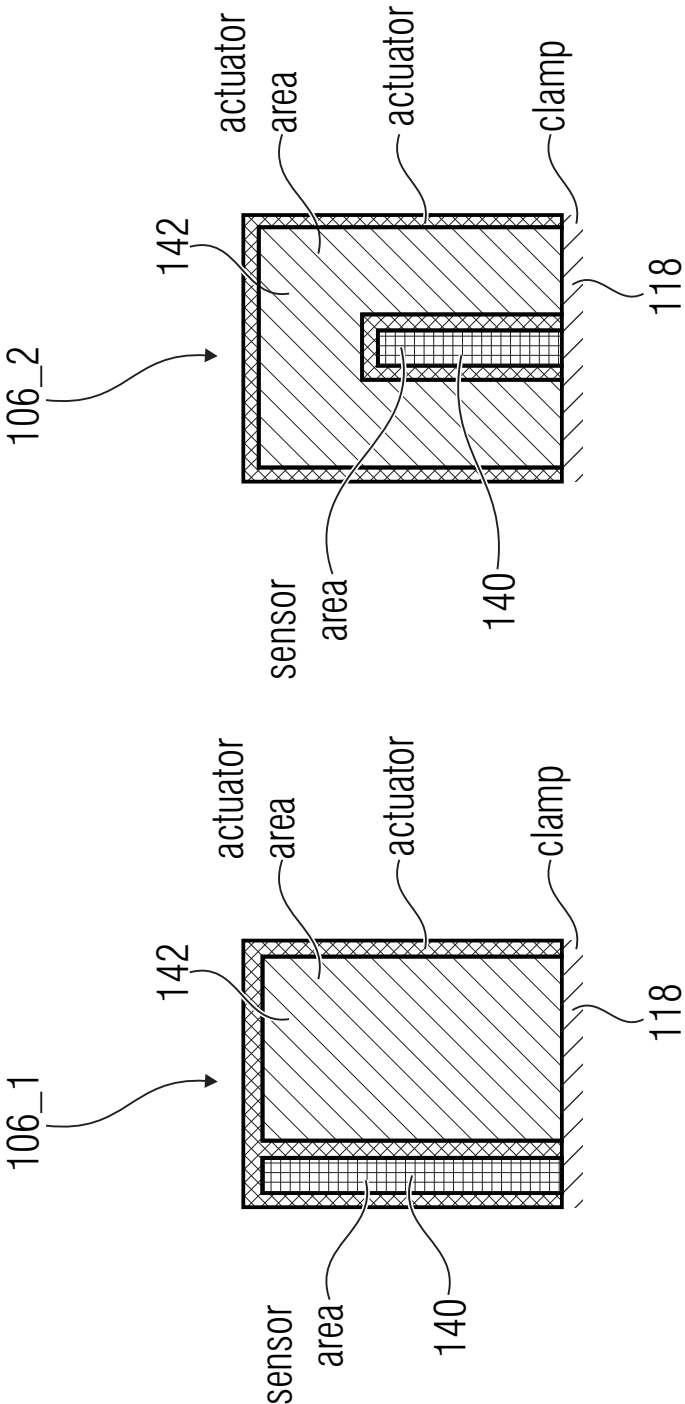


FIGURE 7B

FIGURE 7A

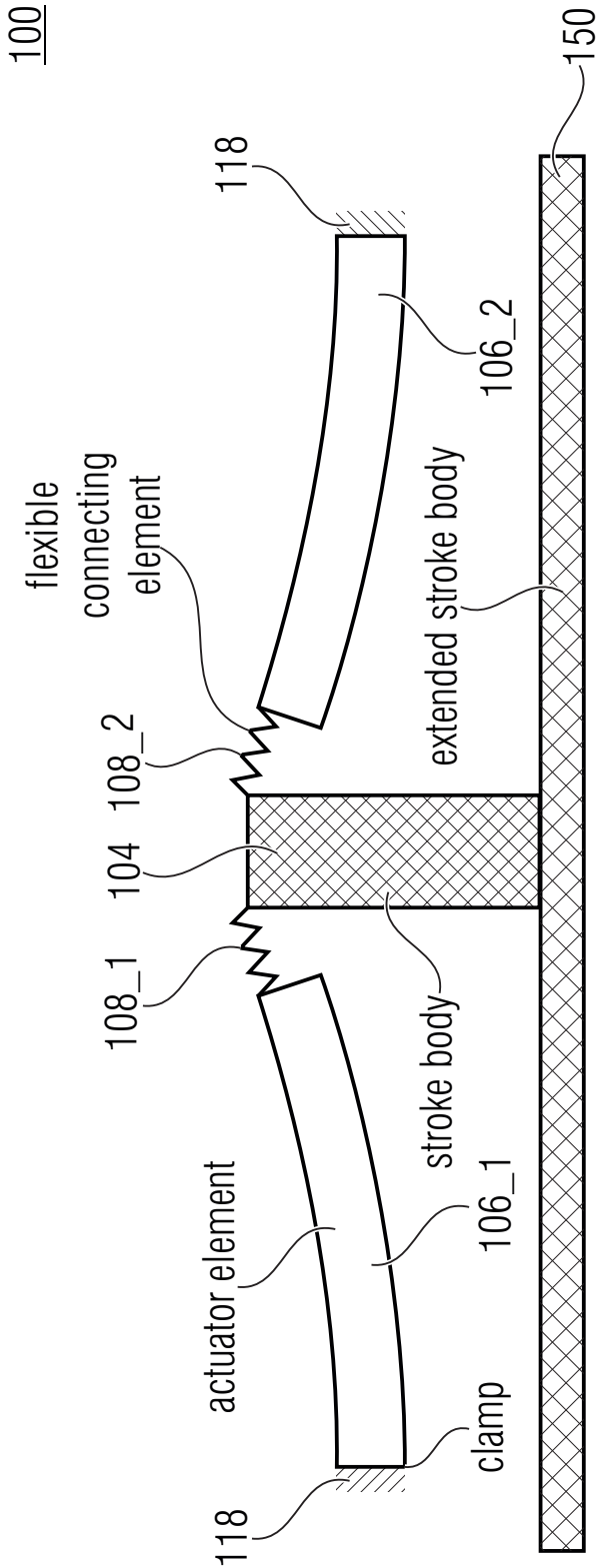


FIGURE 8

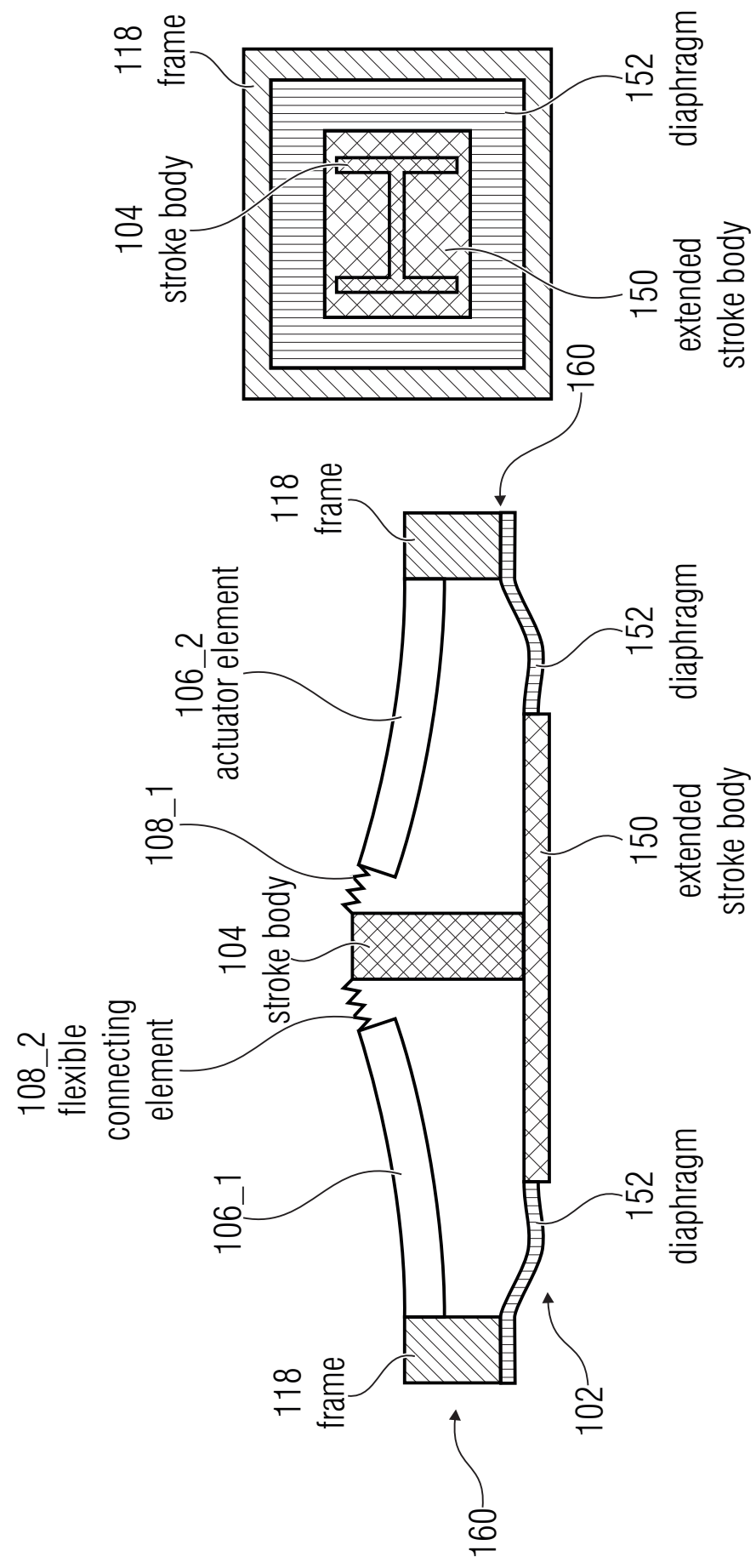


FIGURE 9A

FIGURE 9B

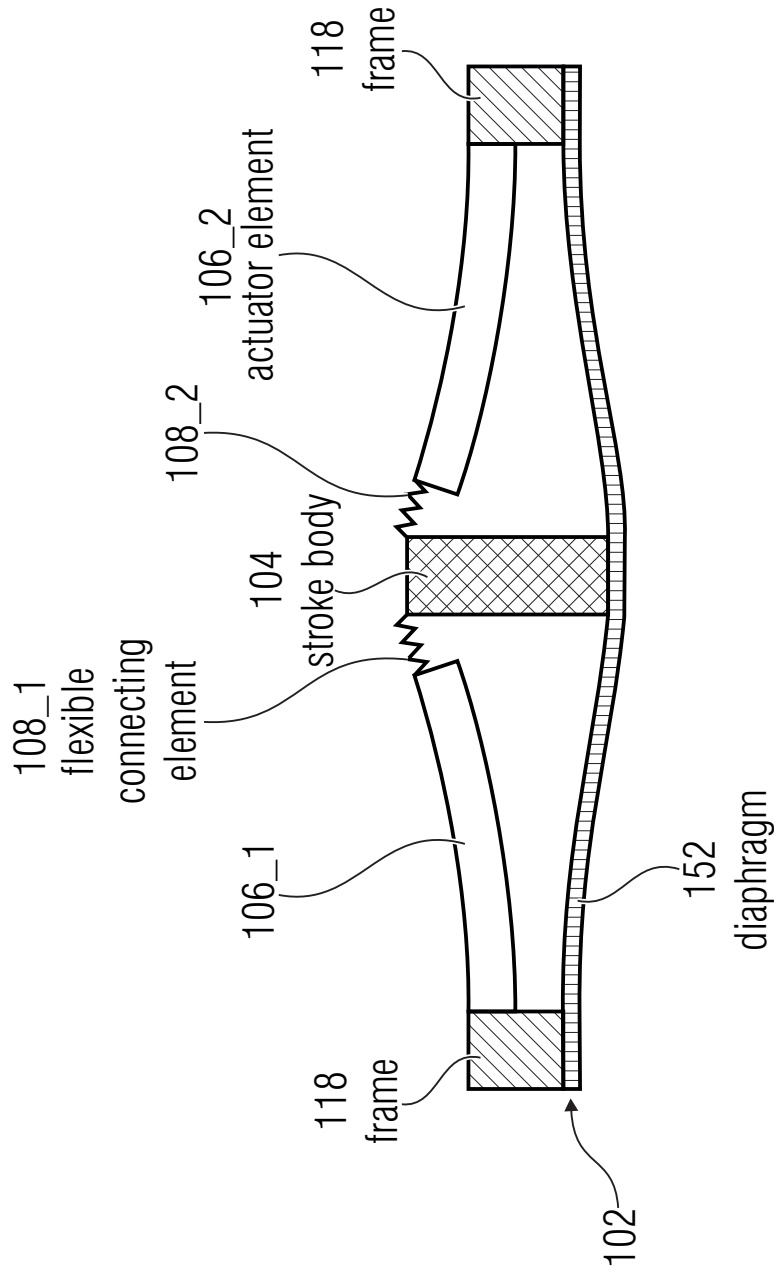


FIGURE 10A

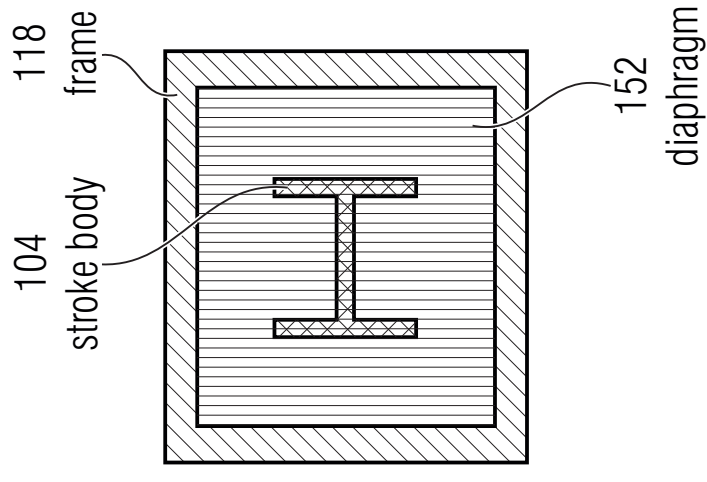


FIGURE 10B

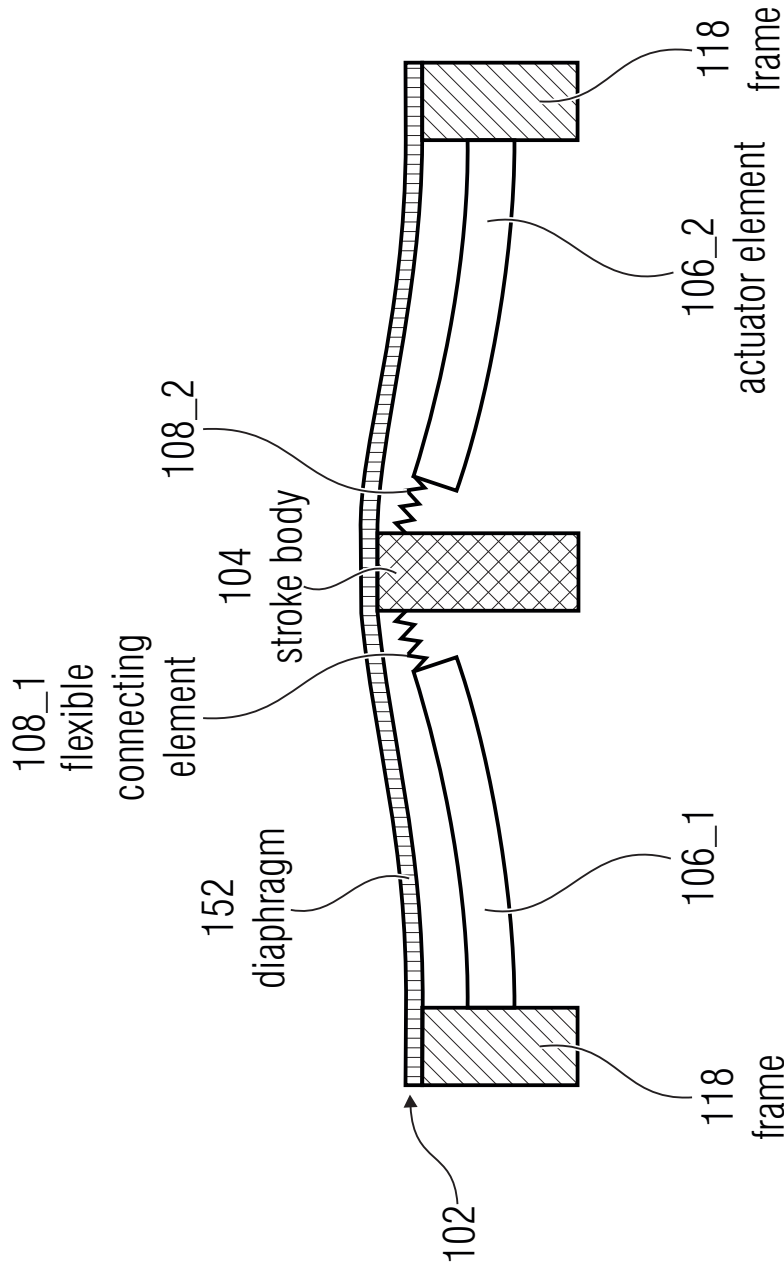


FIGURE 11A

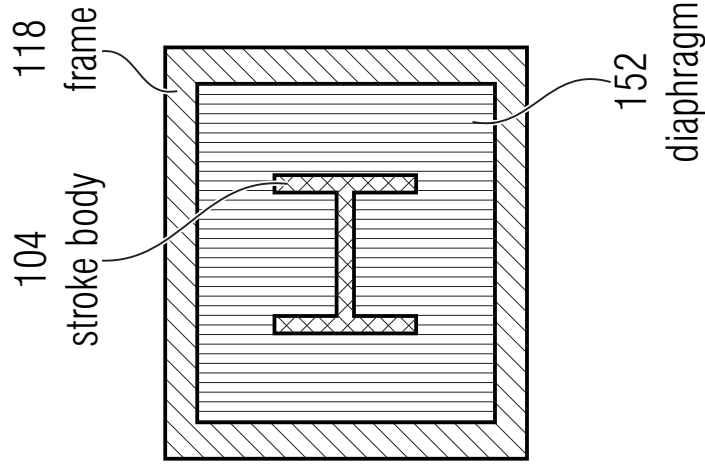


FIGURE 11B

100

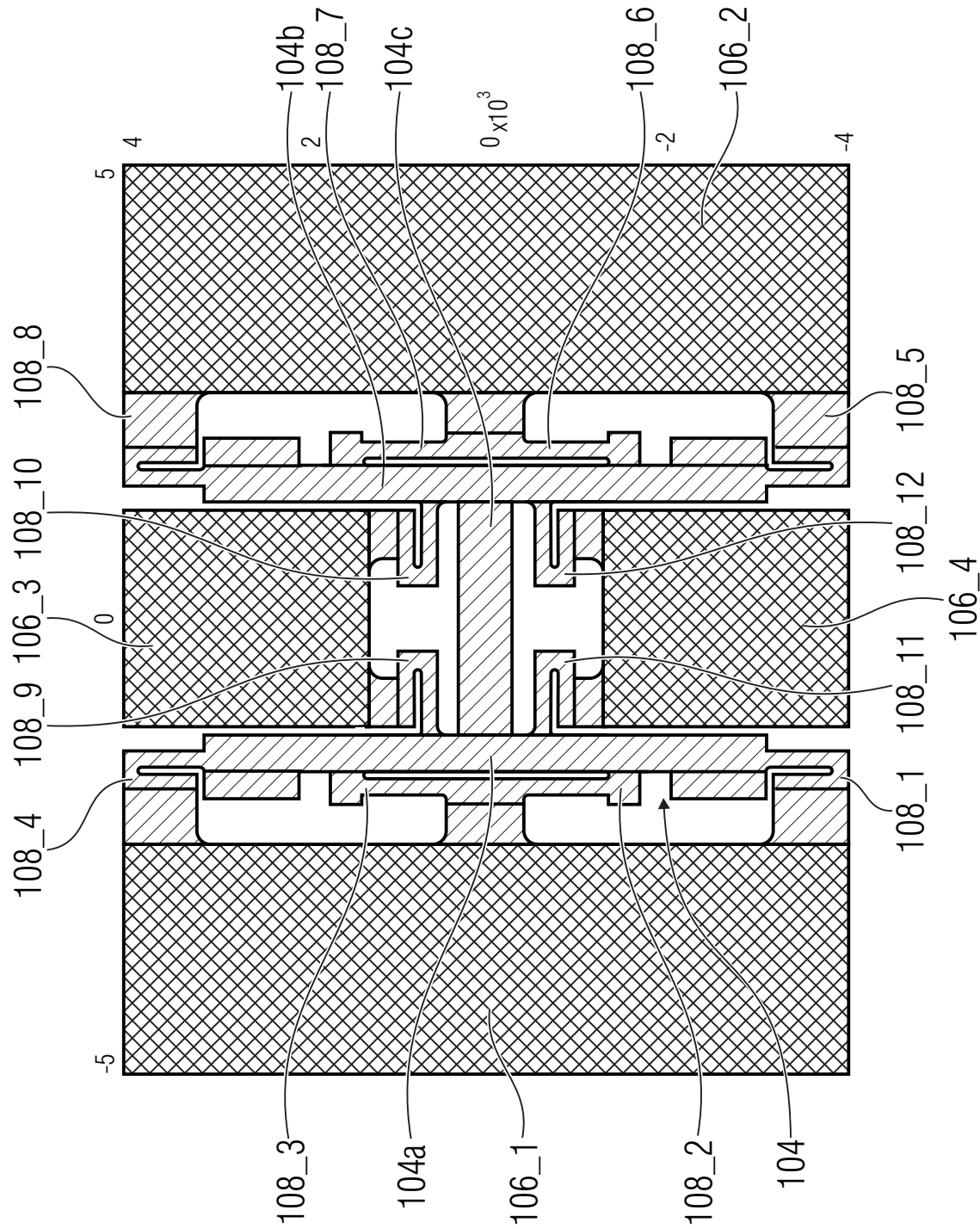


FIGURE 12A

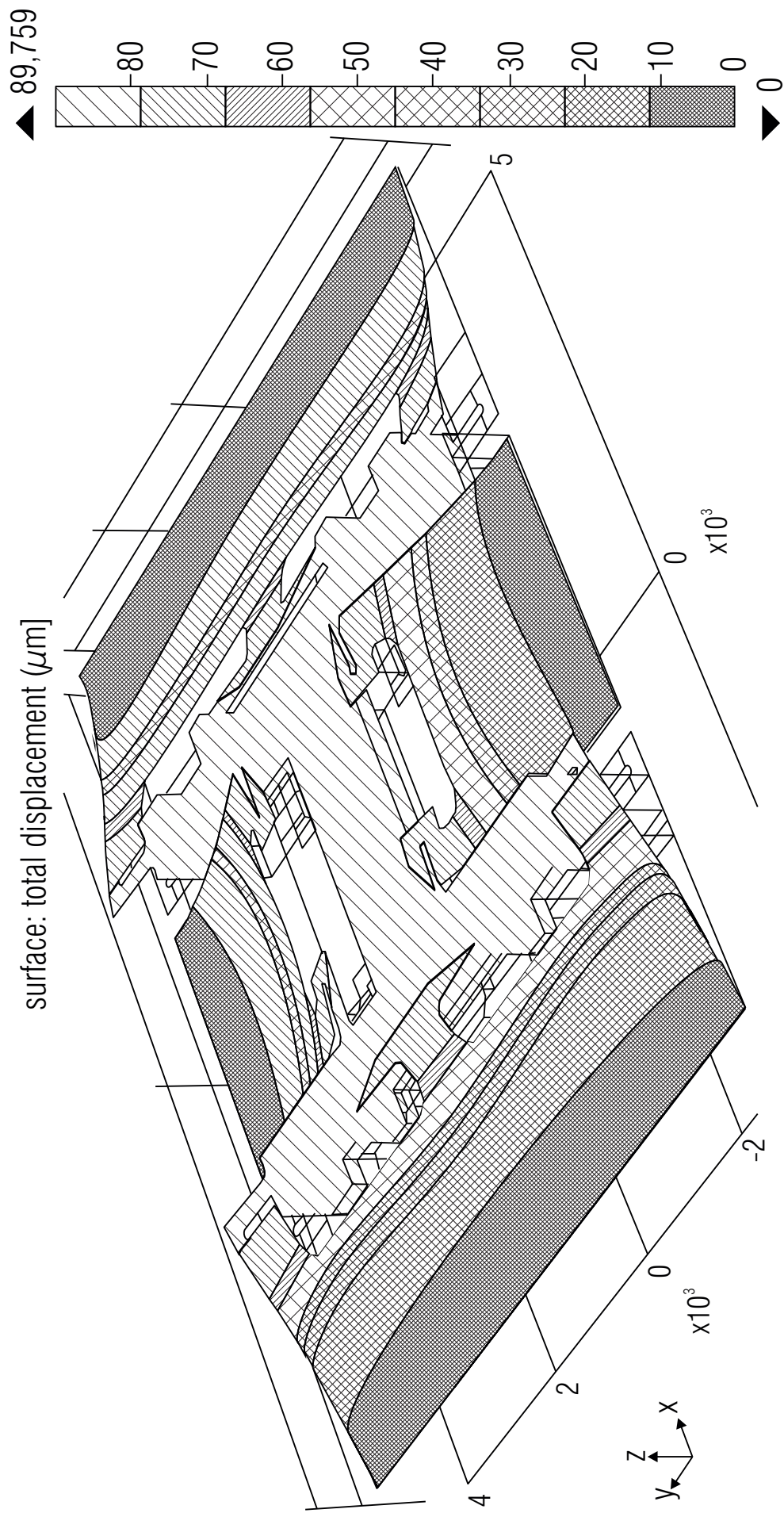
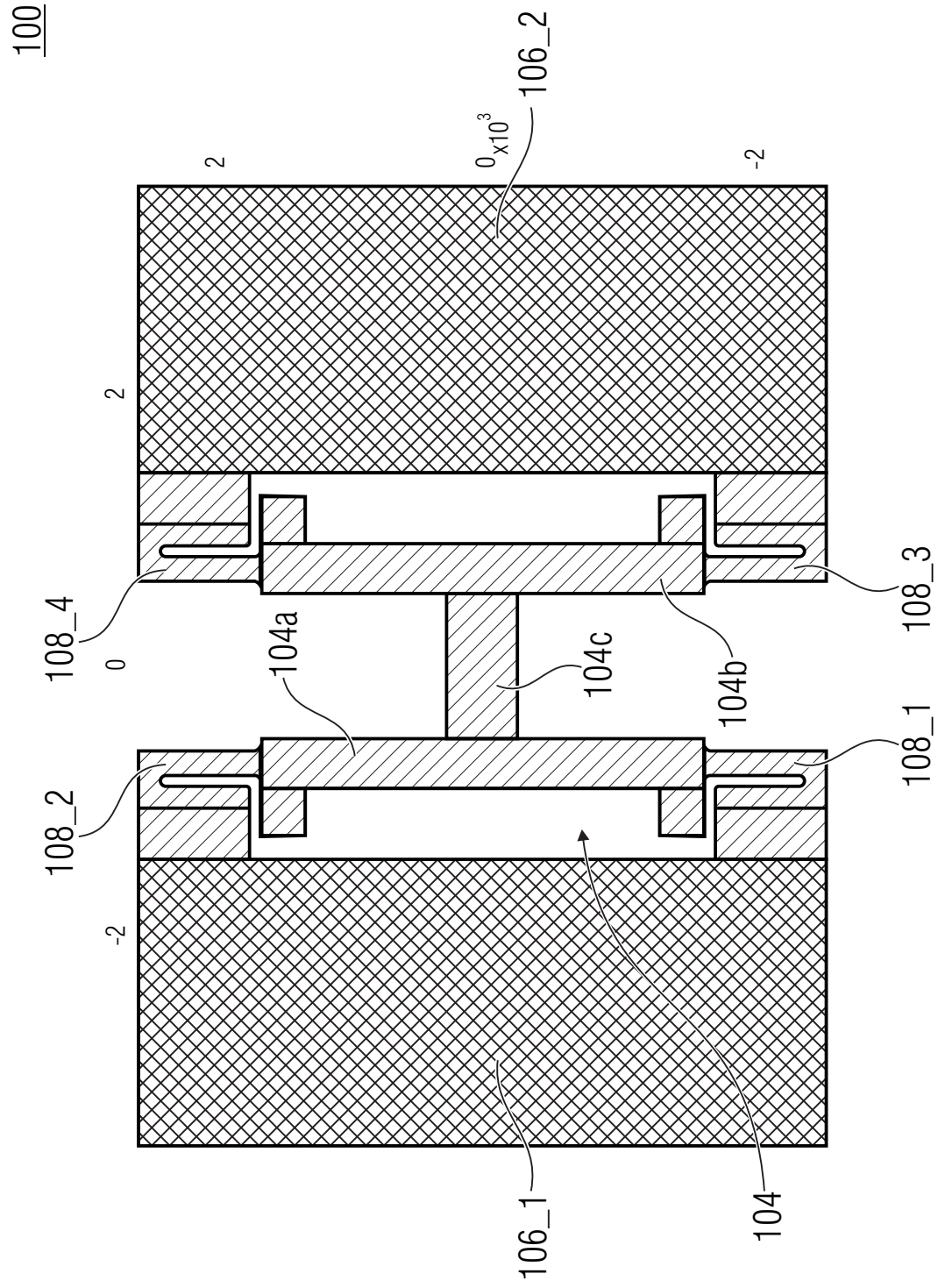


FIGURE 12B



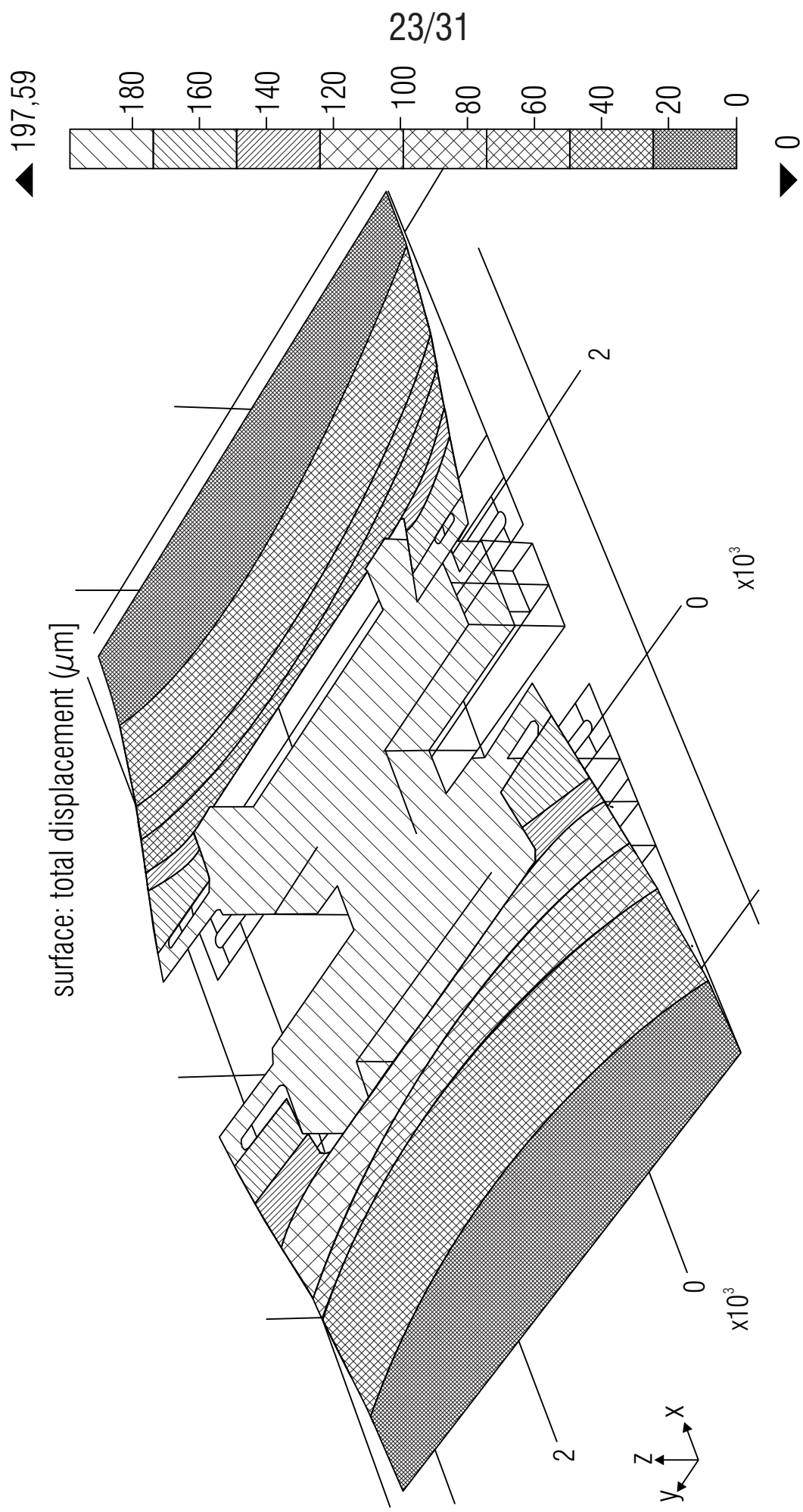


FIGURE 13B

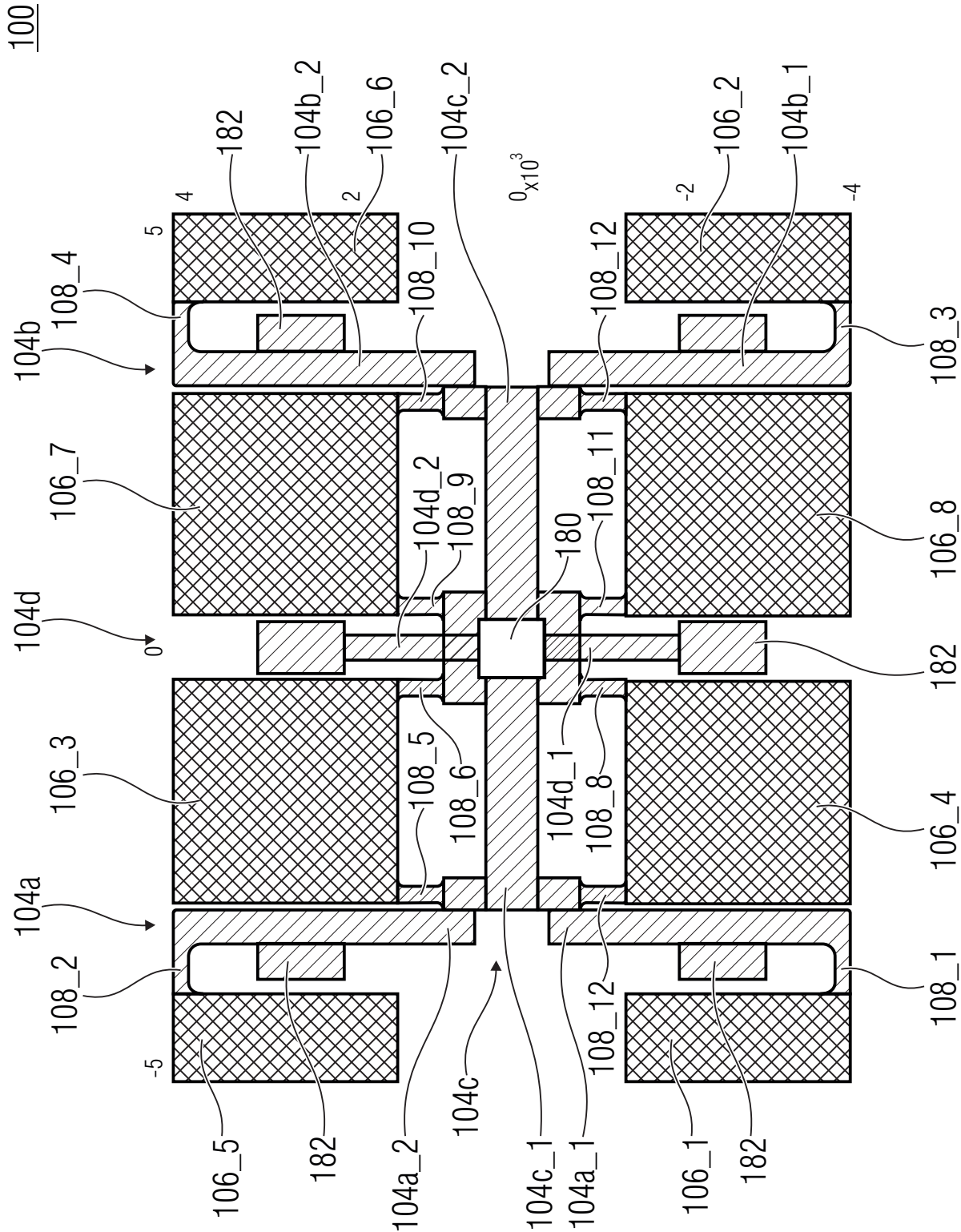


FIGURE 14A

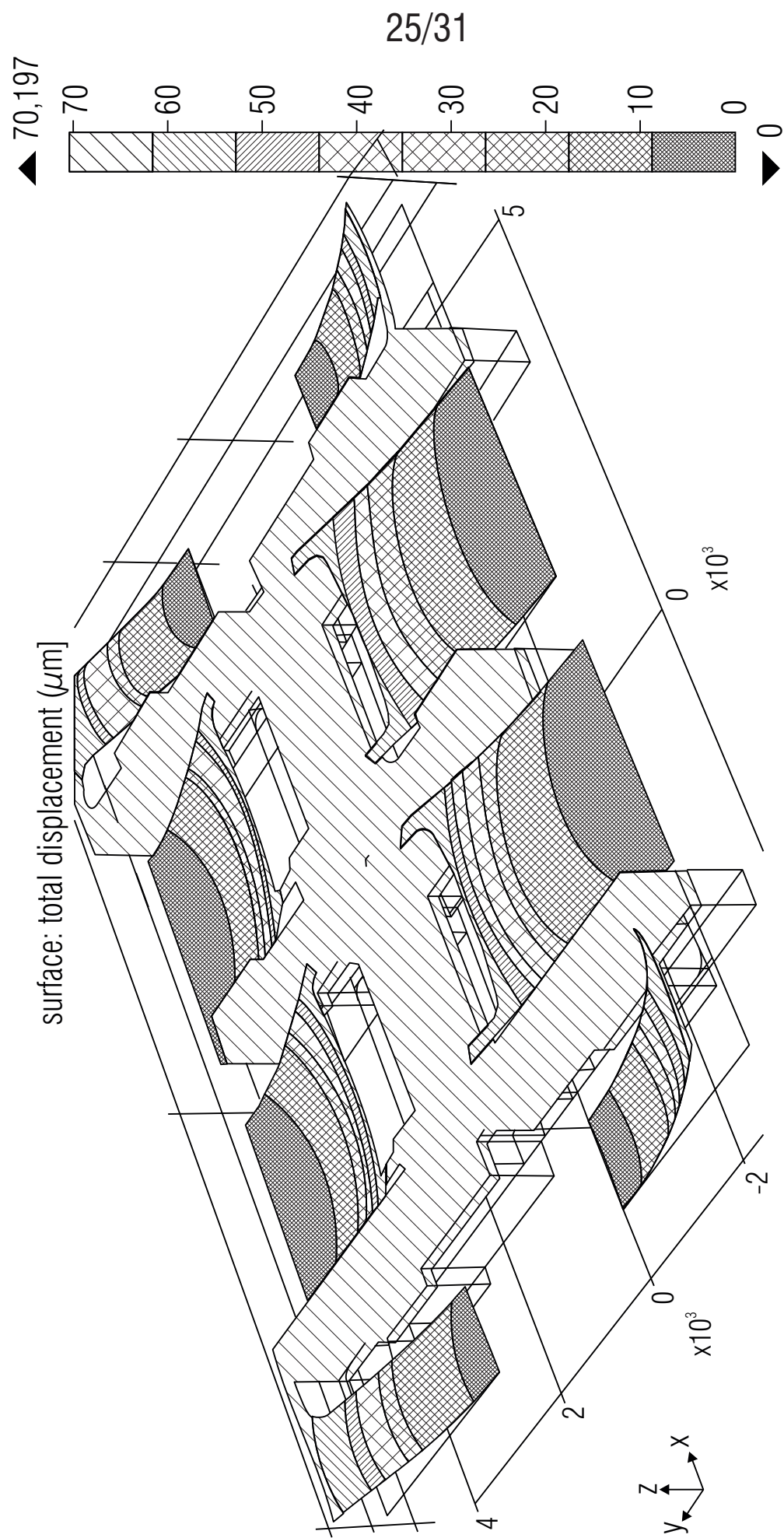


FIGURE 14B

100

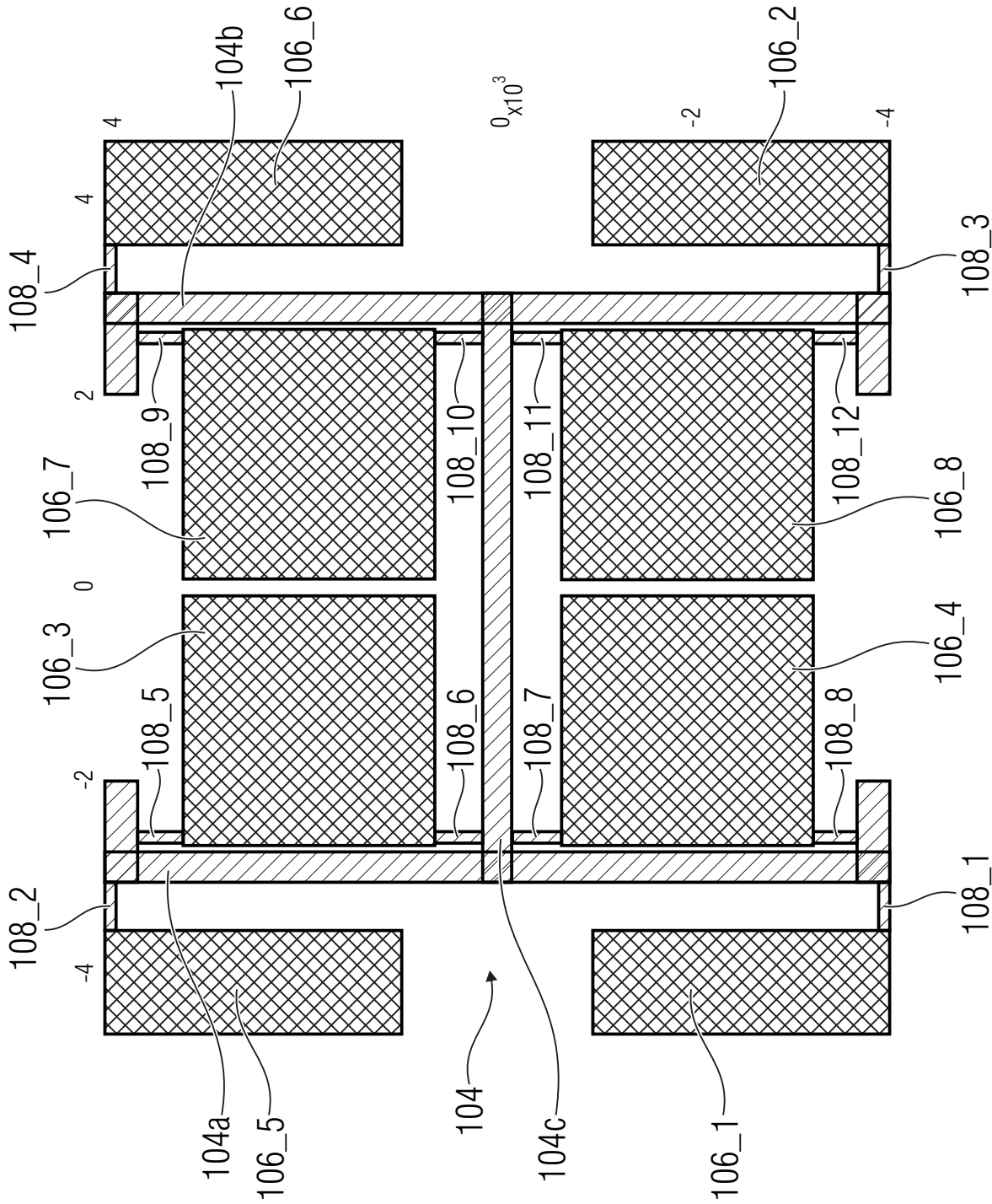


FIGURE 15A

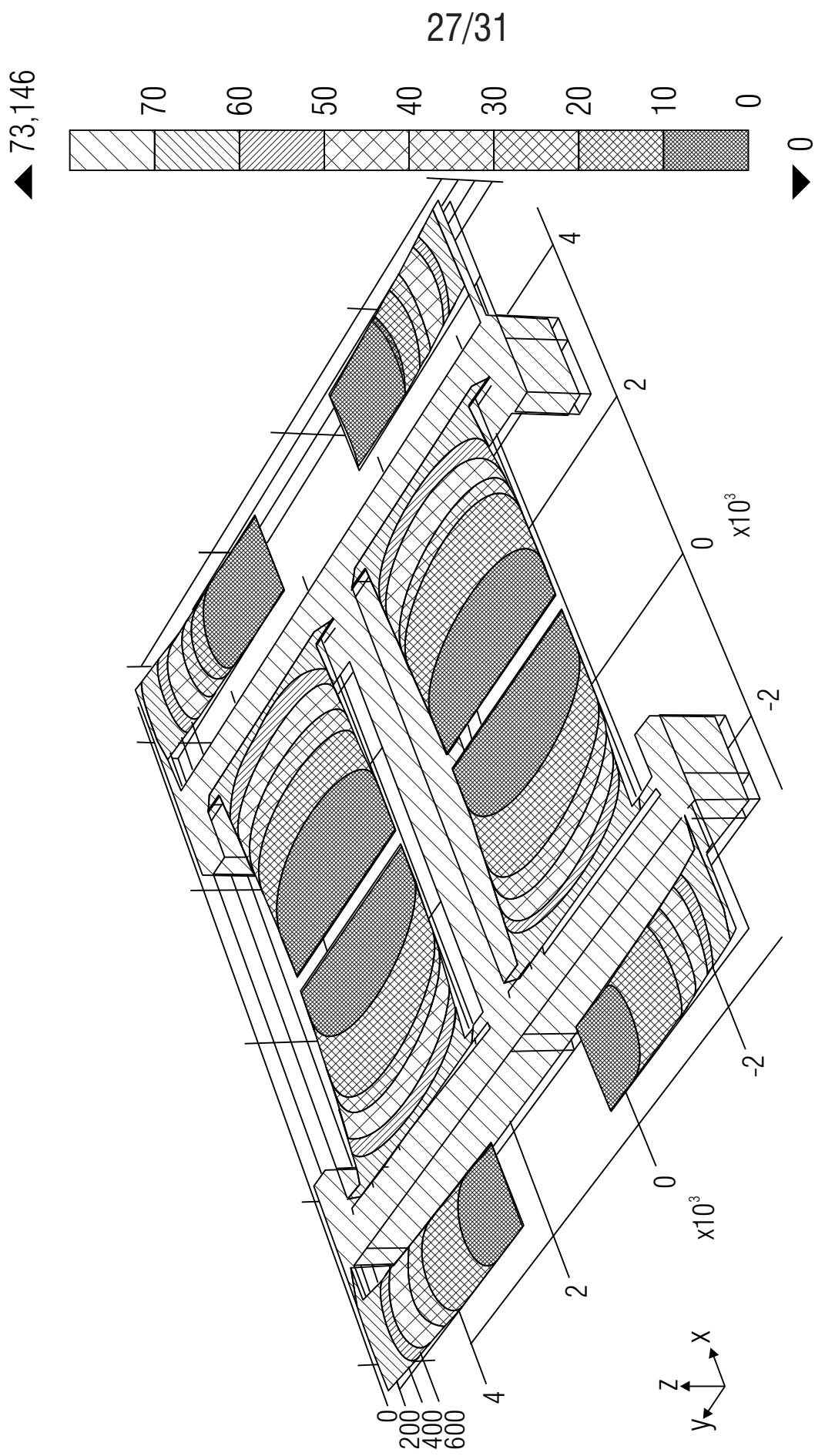


FIGURE 15B

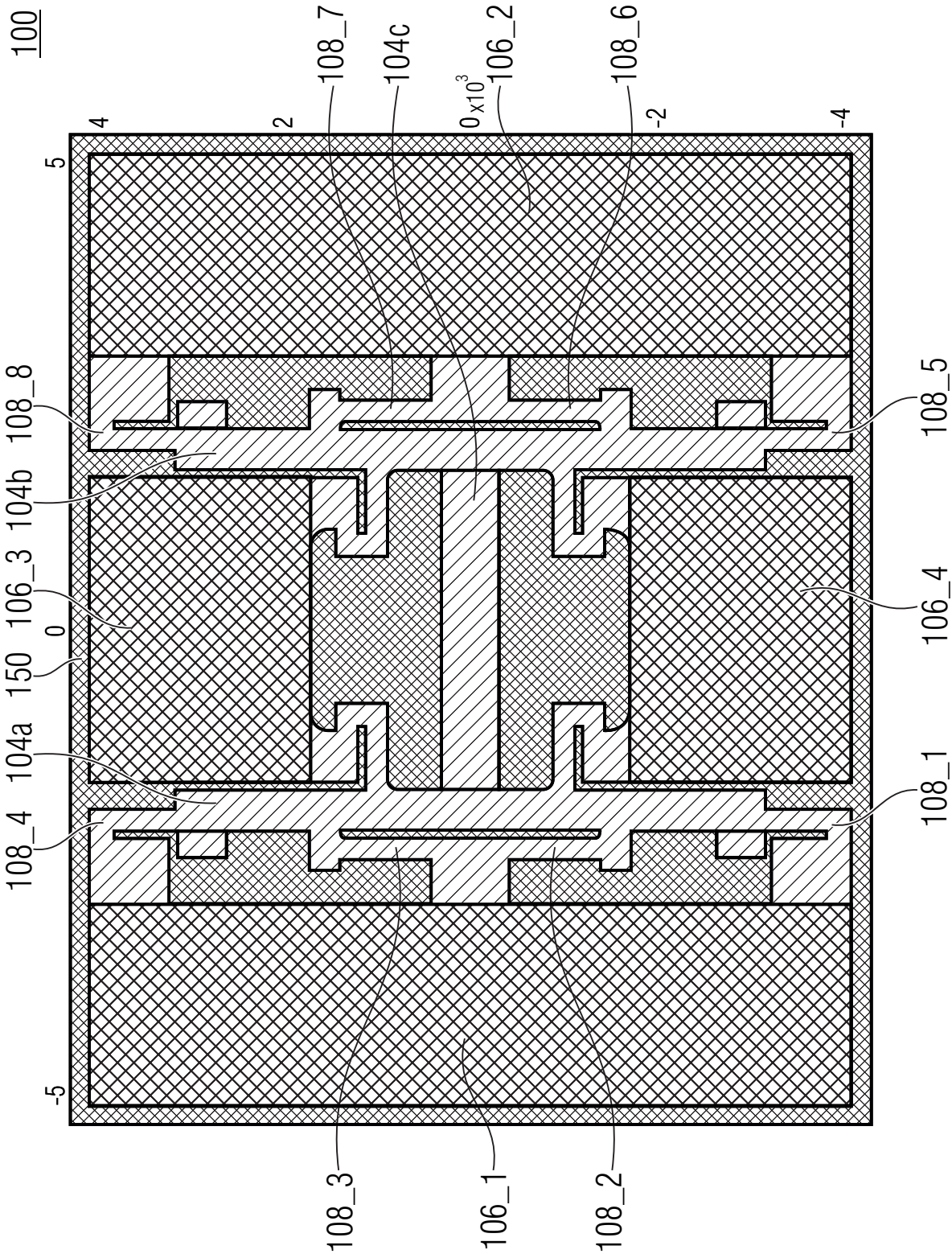


FIGURE 16A

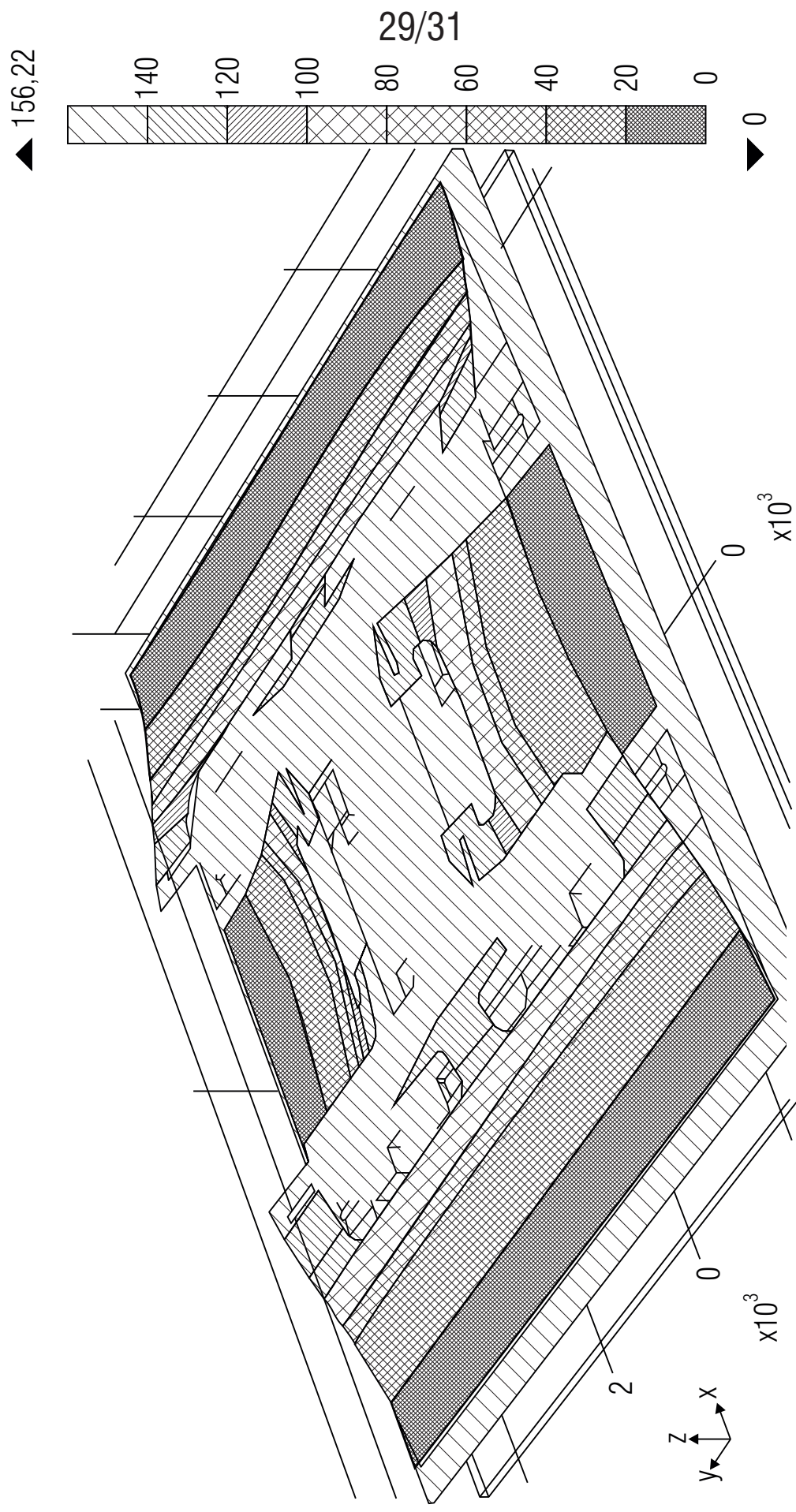


FIGURE 16B

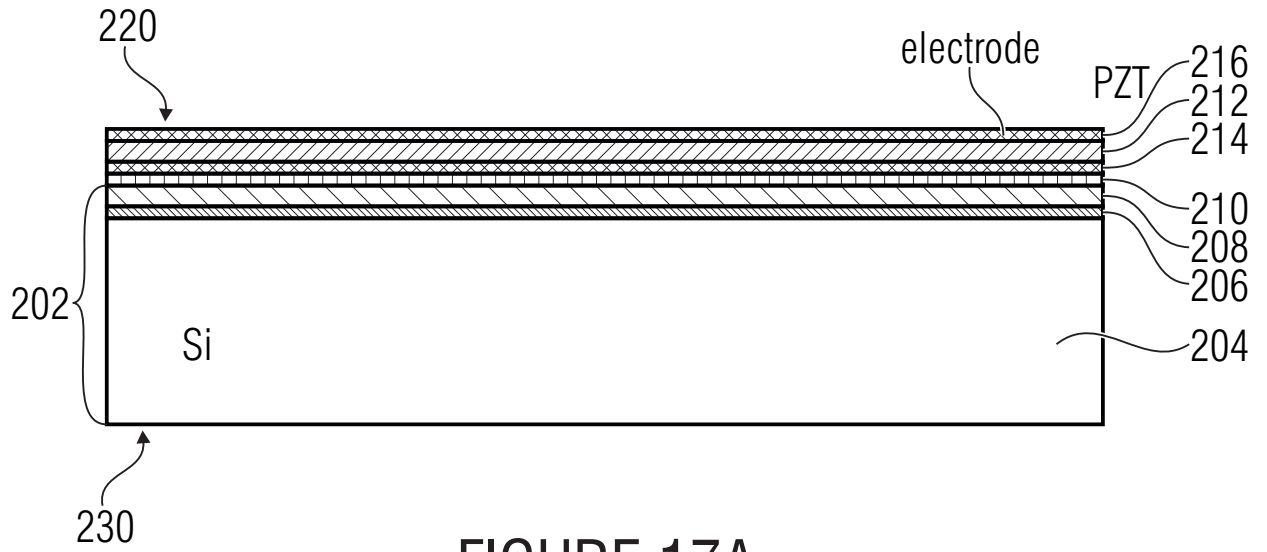


FIGURE 17A

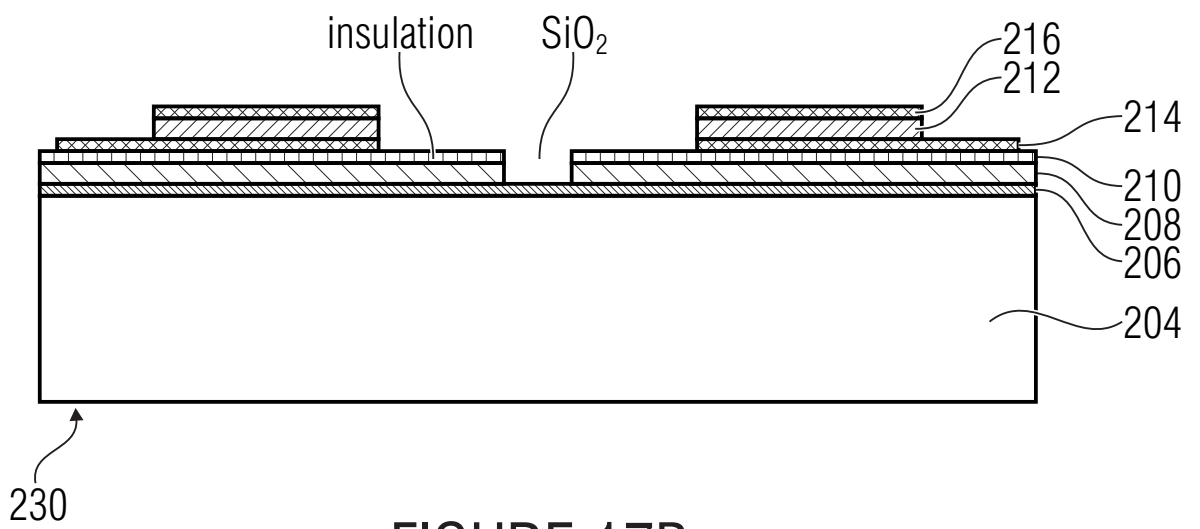


FIGURE 17B

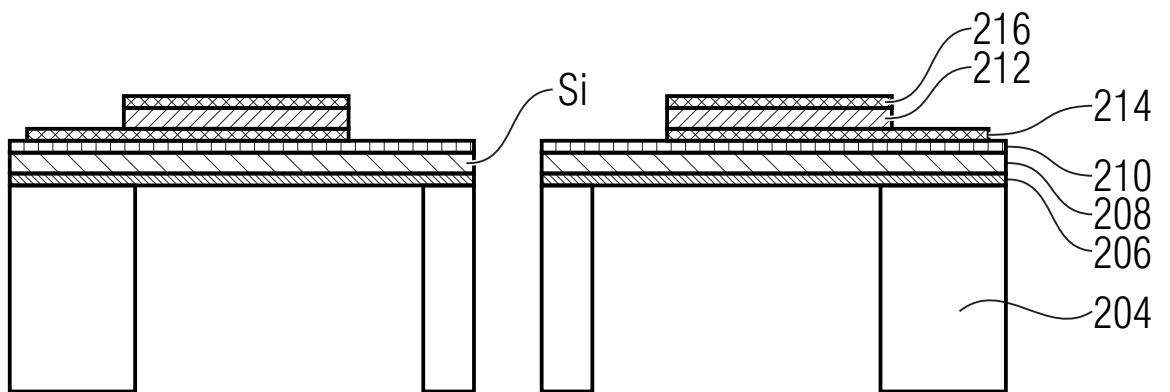


FIGURE 17C

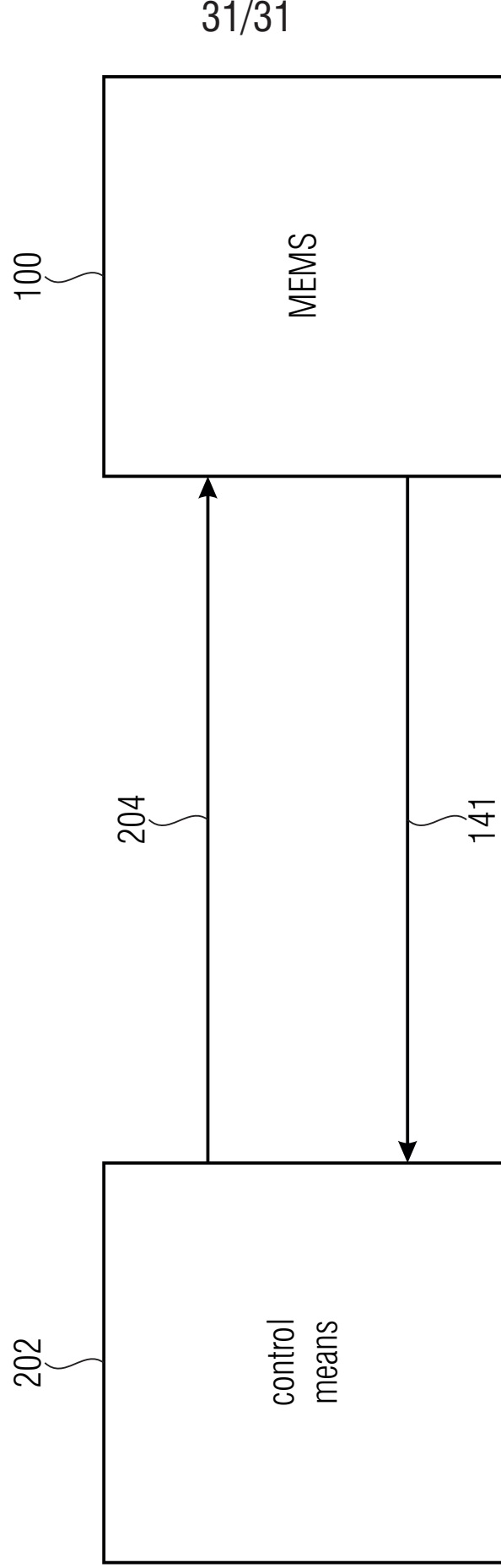


FIGURE 18