

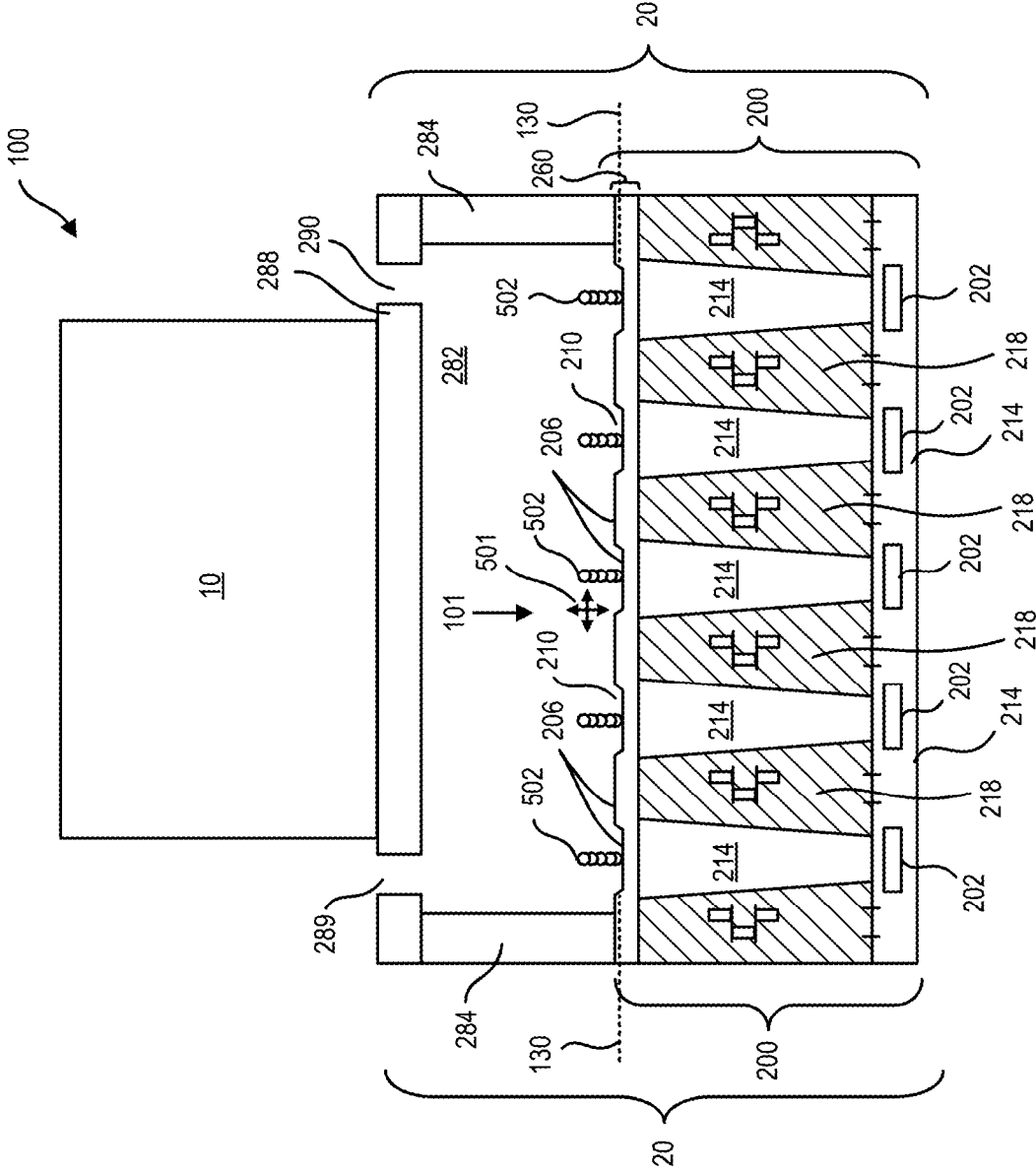


FIG. 1

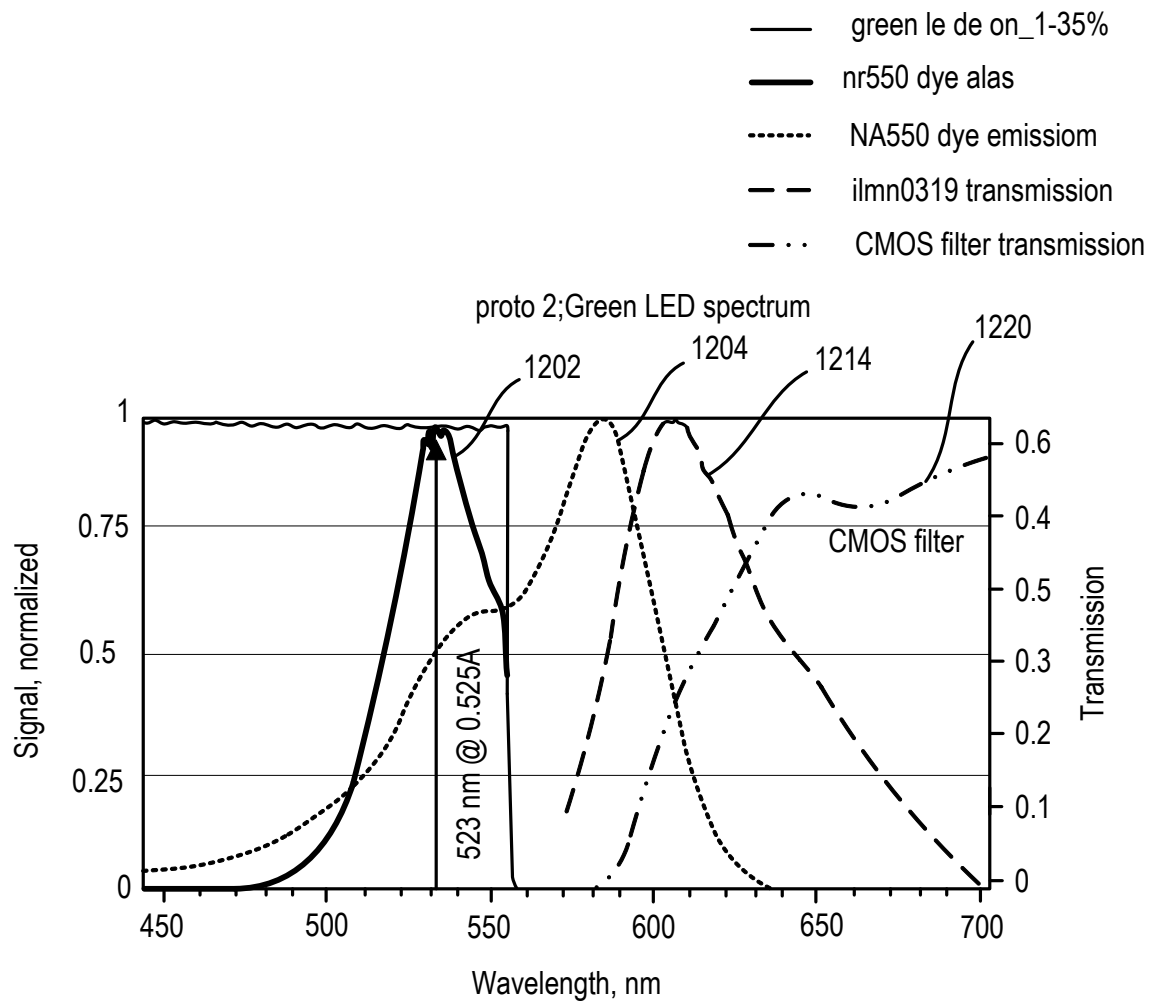


FIG. 2

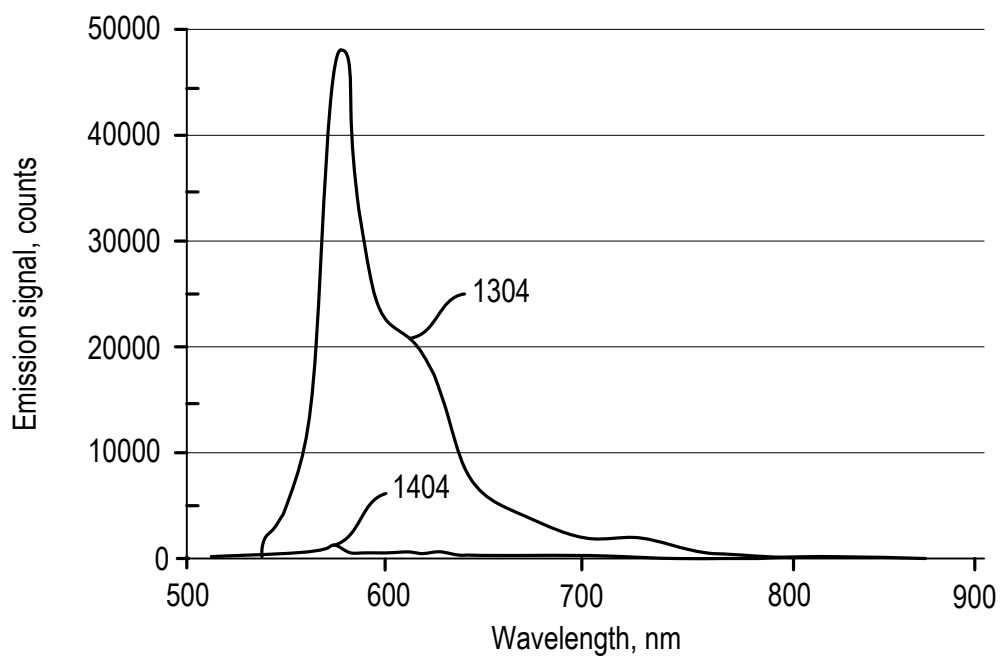


FIG. 3

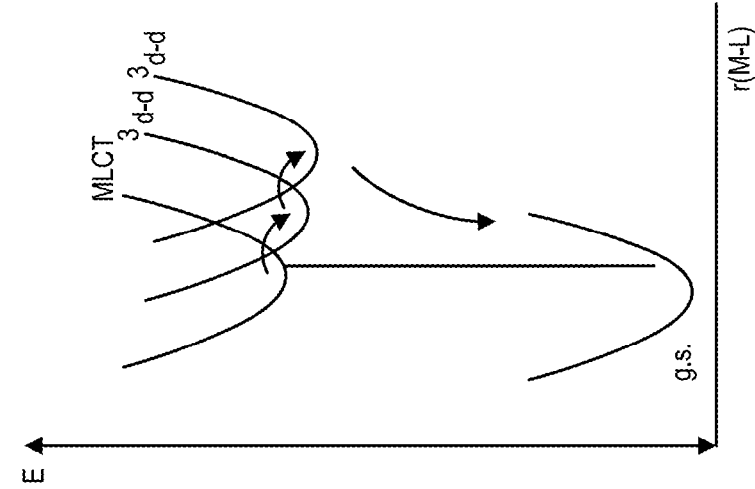


FIG. 6

NON - RADIATIVE ENERGY
TRANSITION

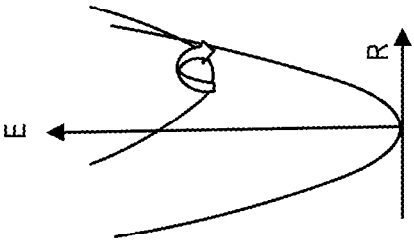


FIG. 5

RADIATIVE ENERGY
TRANSITION
(PHOTOLUMINESCENCE)

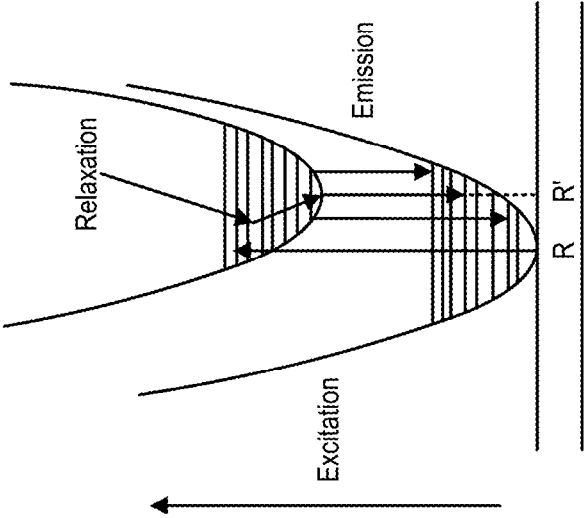


FIG. 4

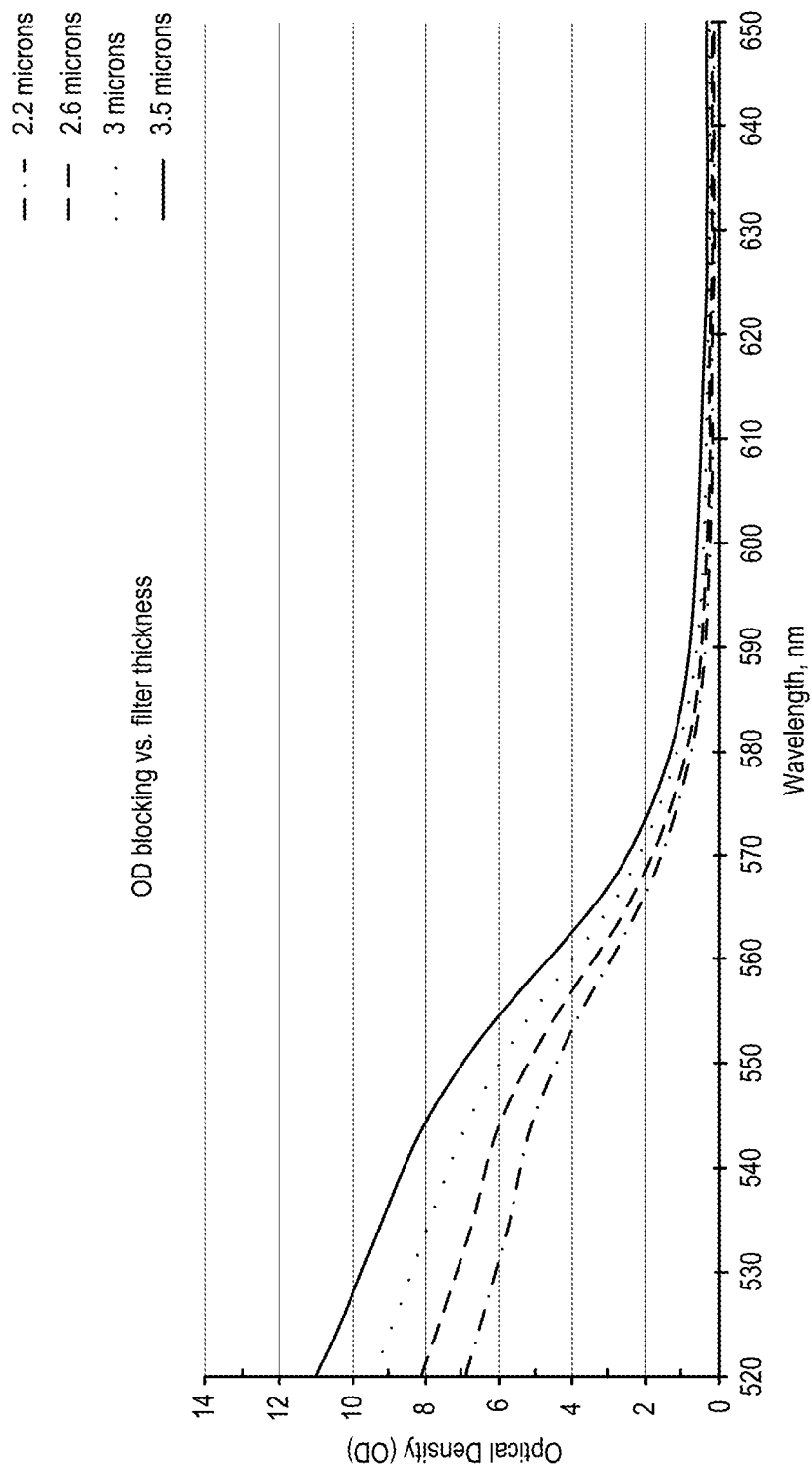
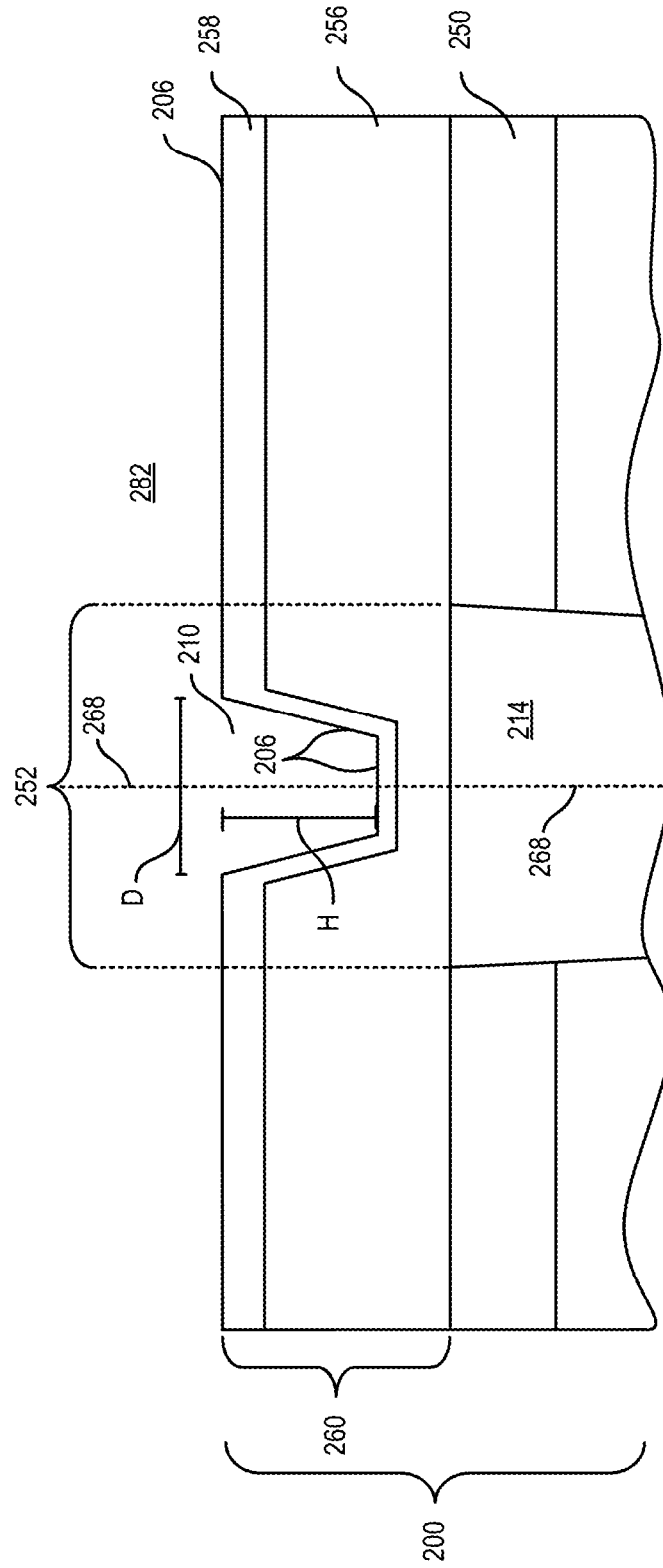


FIG. 7


$$\frac{E}{G} \infty$$

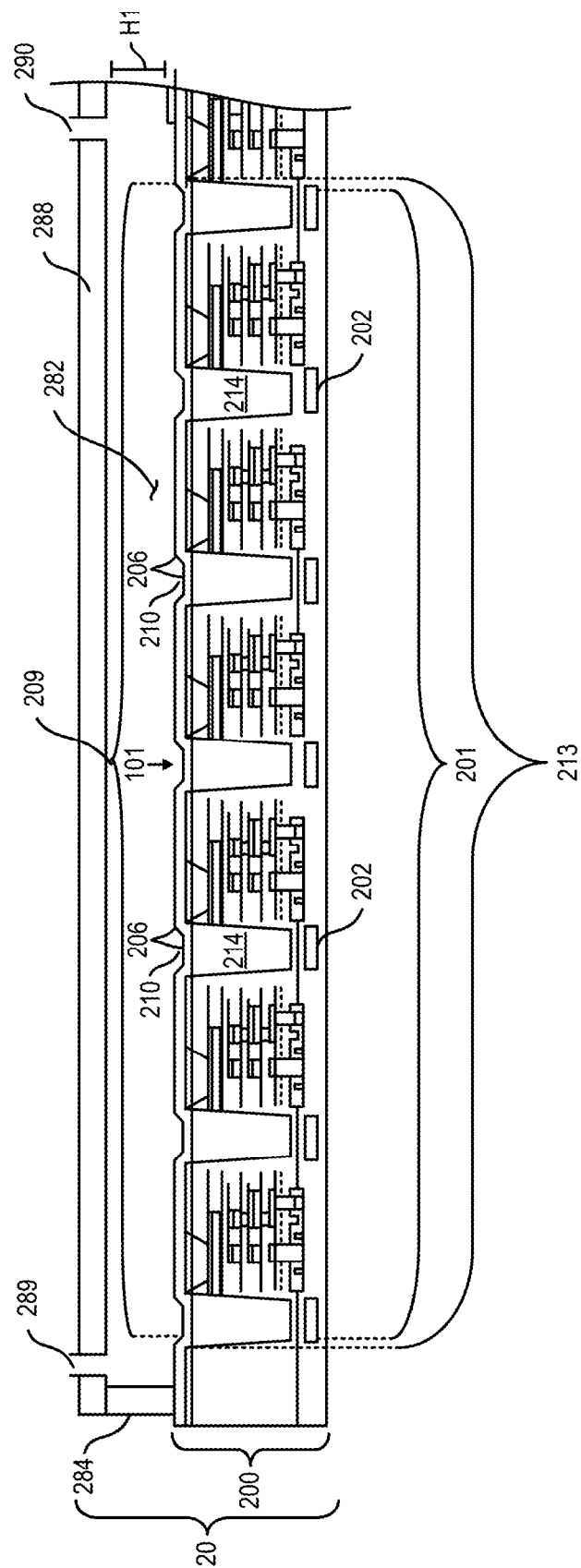


FIG. 9

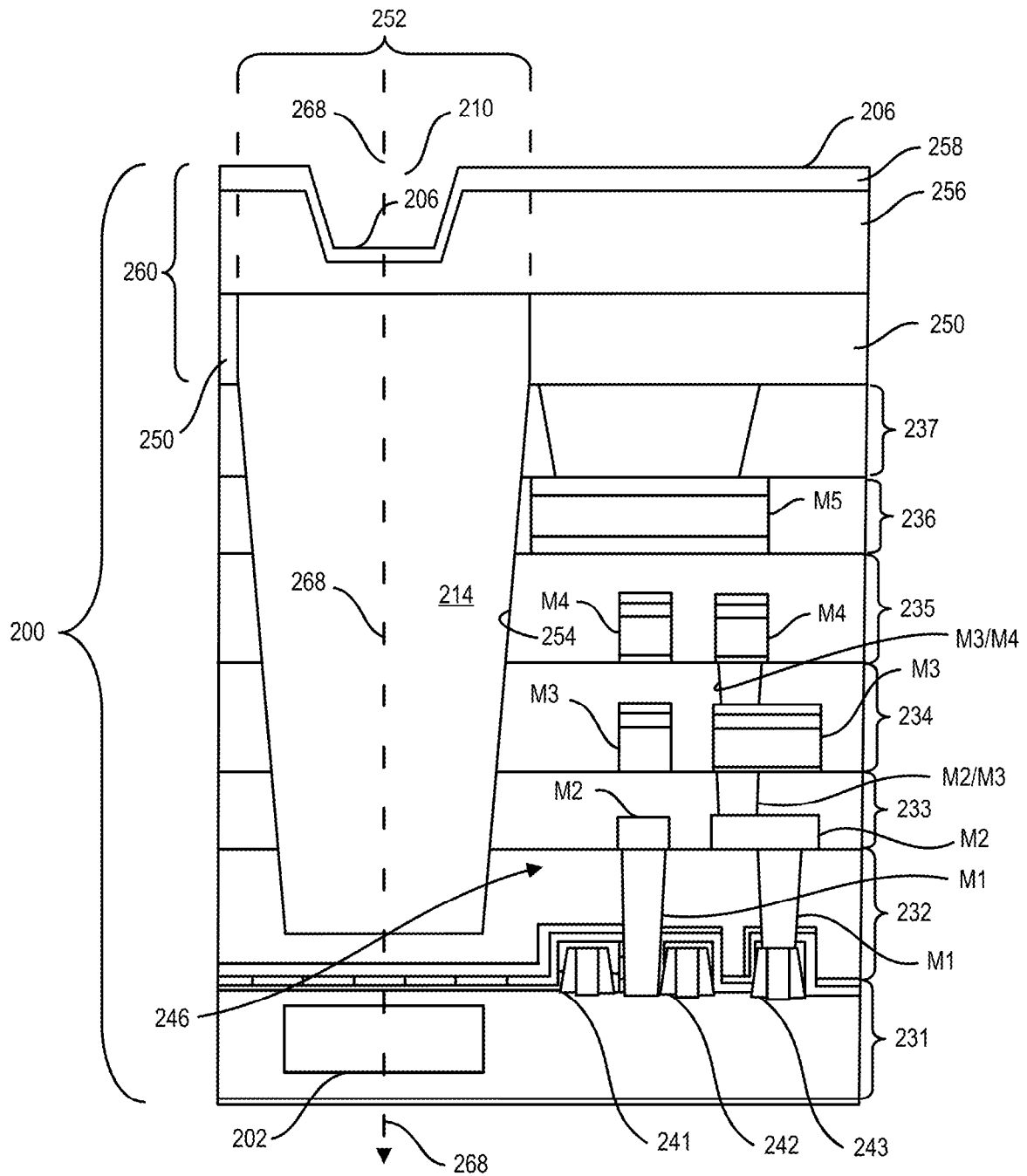


FIG. 10