

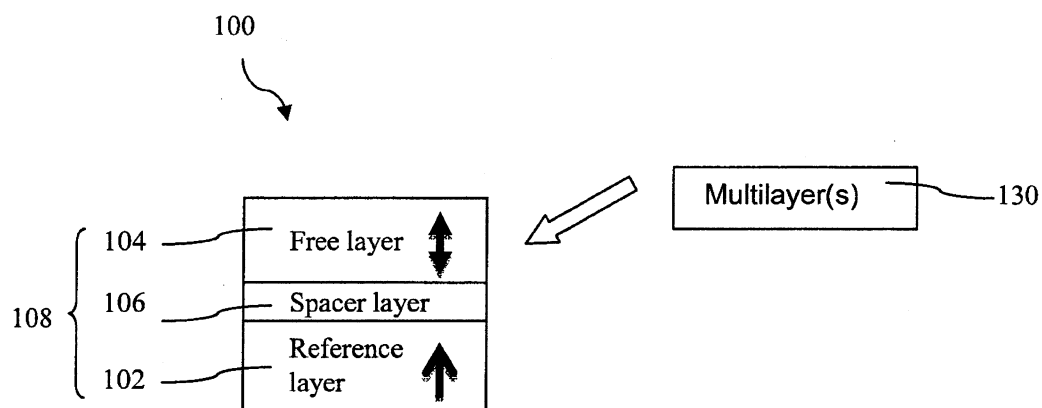


FIG. 1

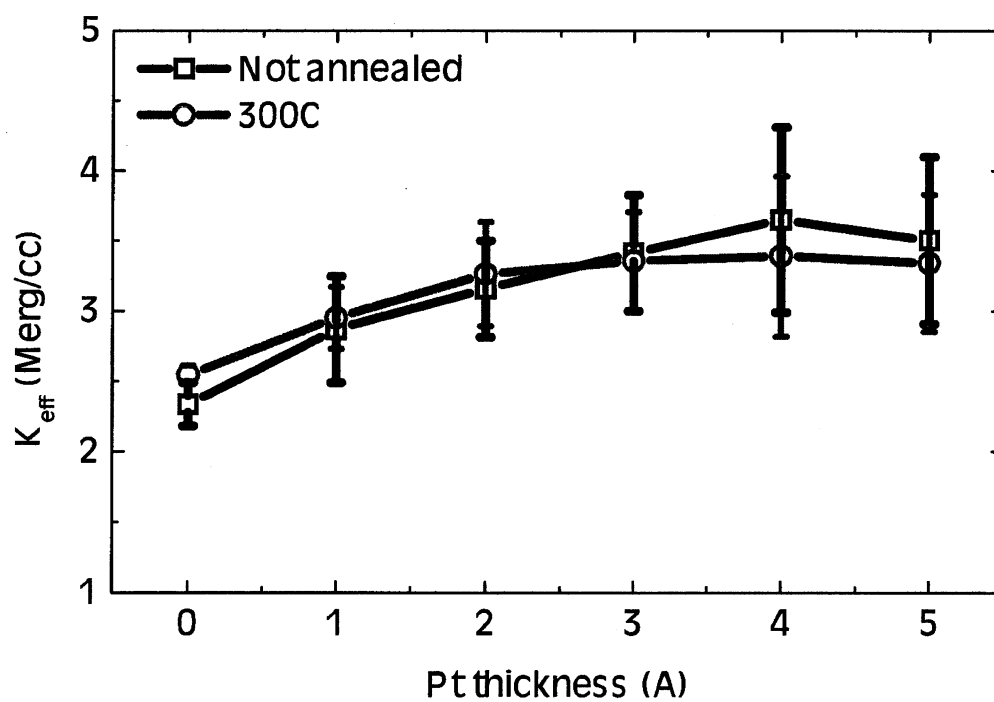


FIG. 2A

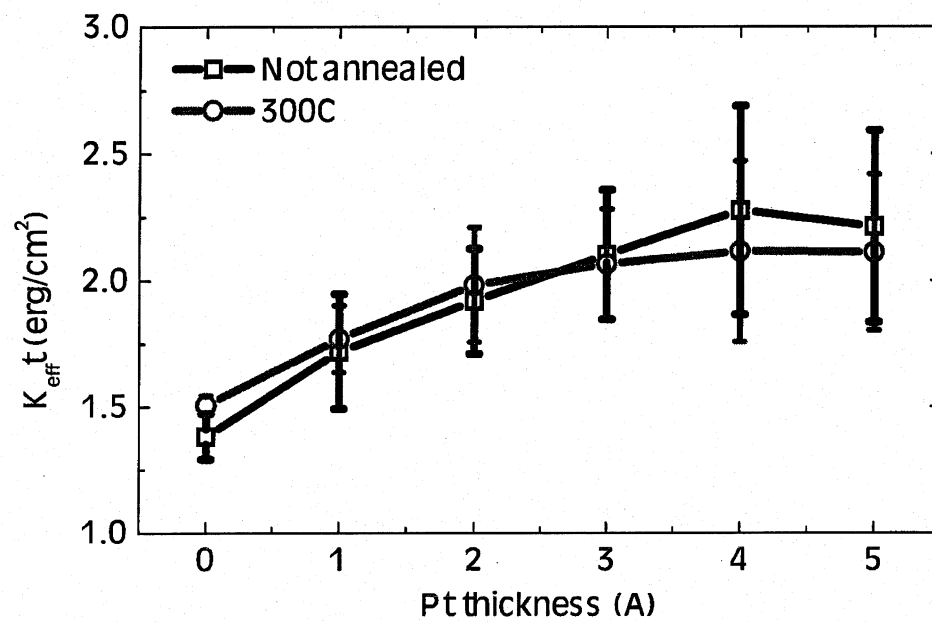


FIG. 2B

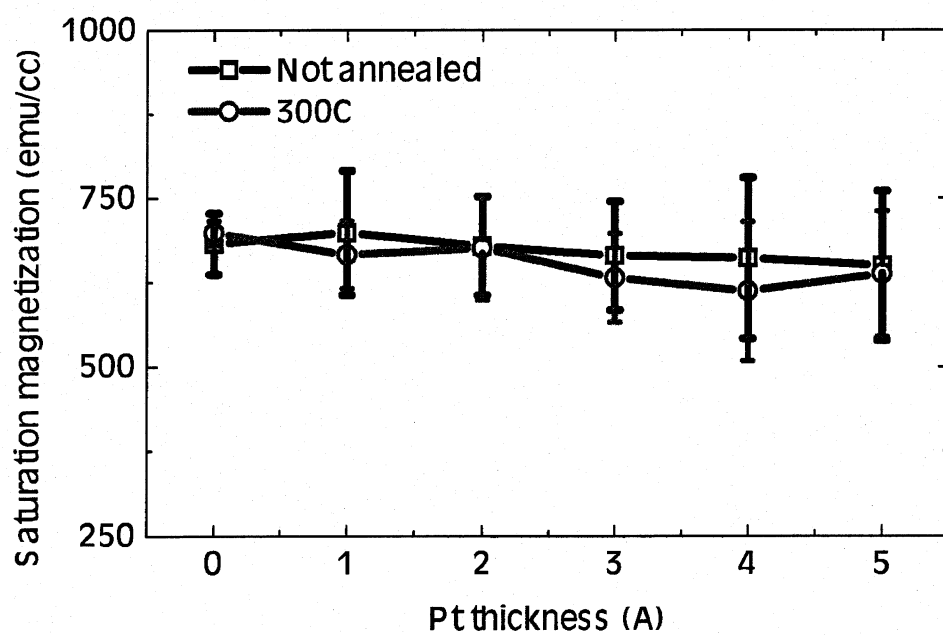


FIG. 2C

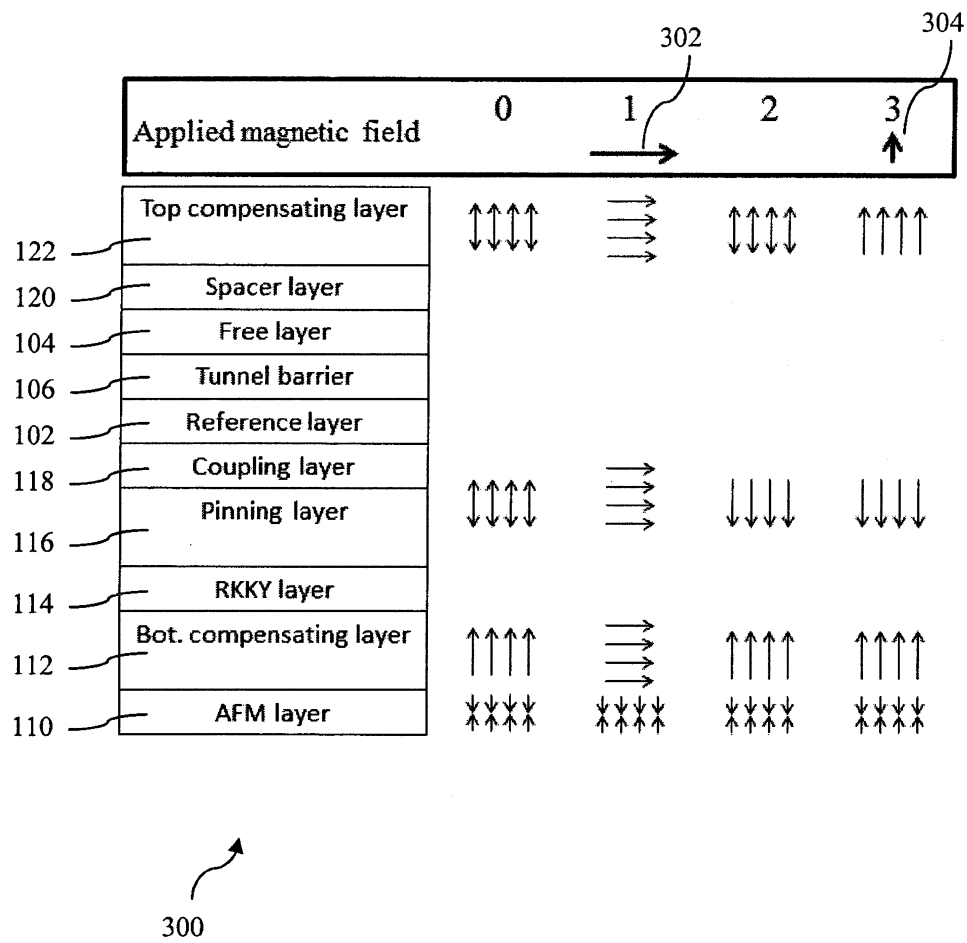
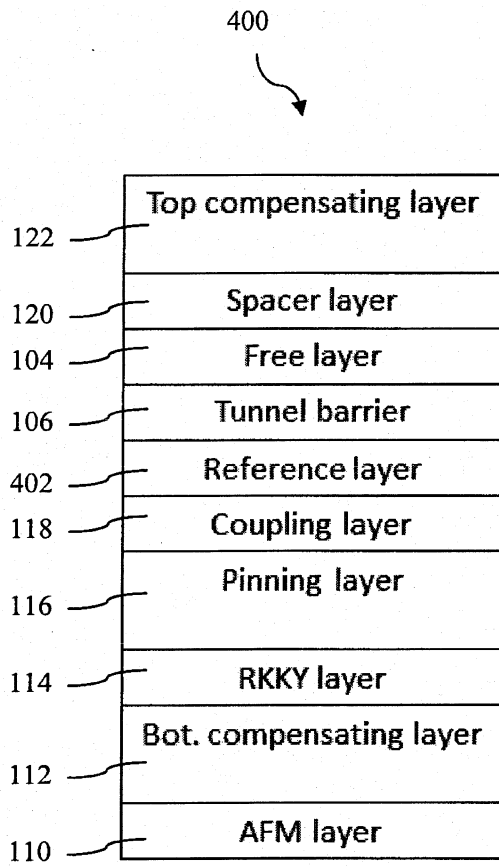
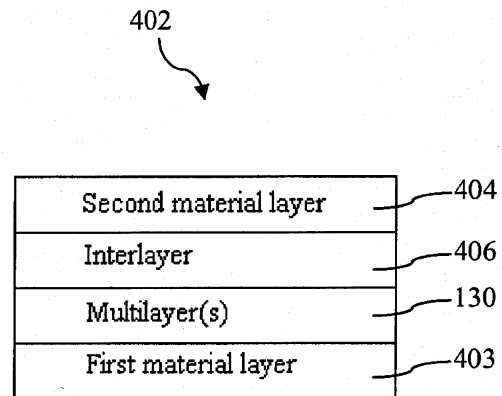
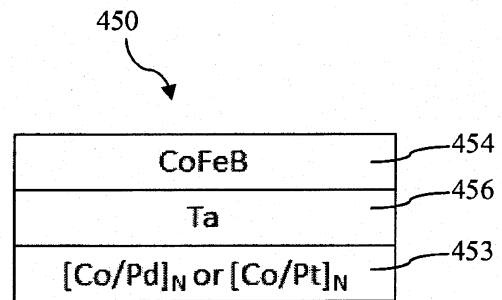
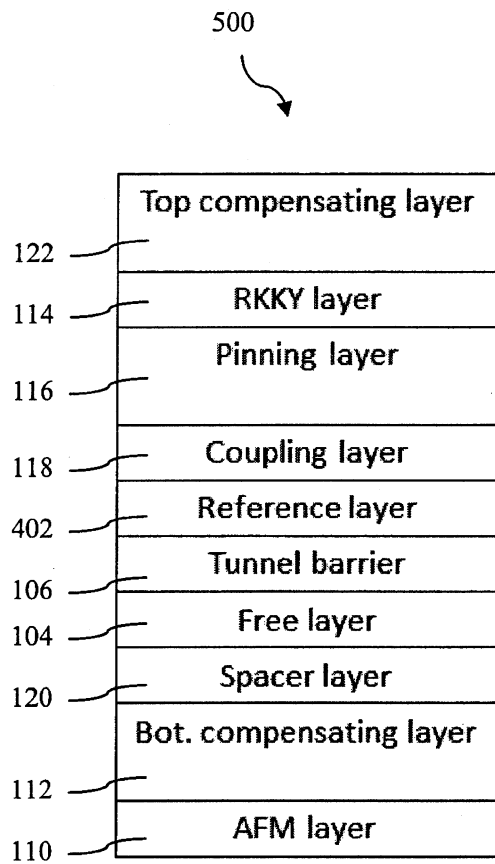


FIG. 3

**Bottom pinned MTJ****FIG. 4A****FIG. 4B****FIG. 4C**



Top pinned MTJ

FIG. 5A

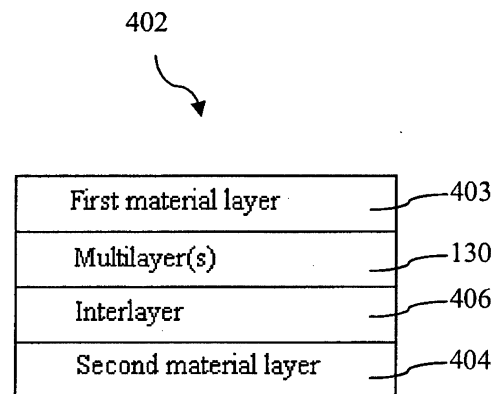


FIG. 5B

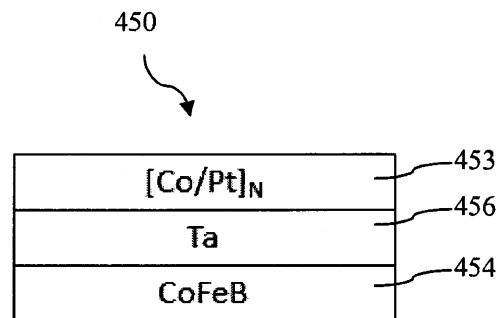
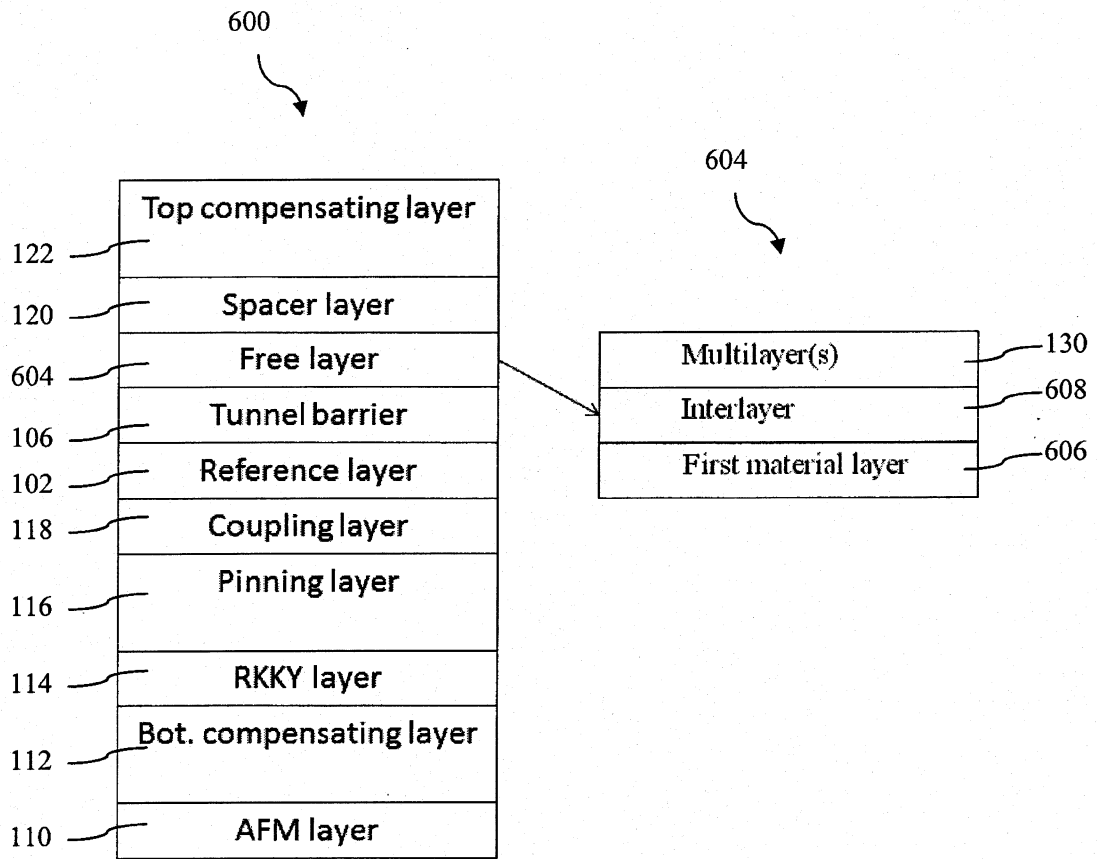


FIG. 5C

**Bottom pinned MTJ****FIG. 6**

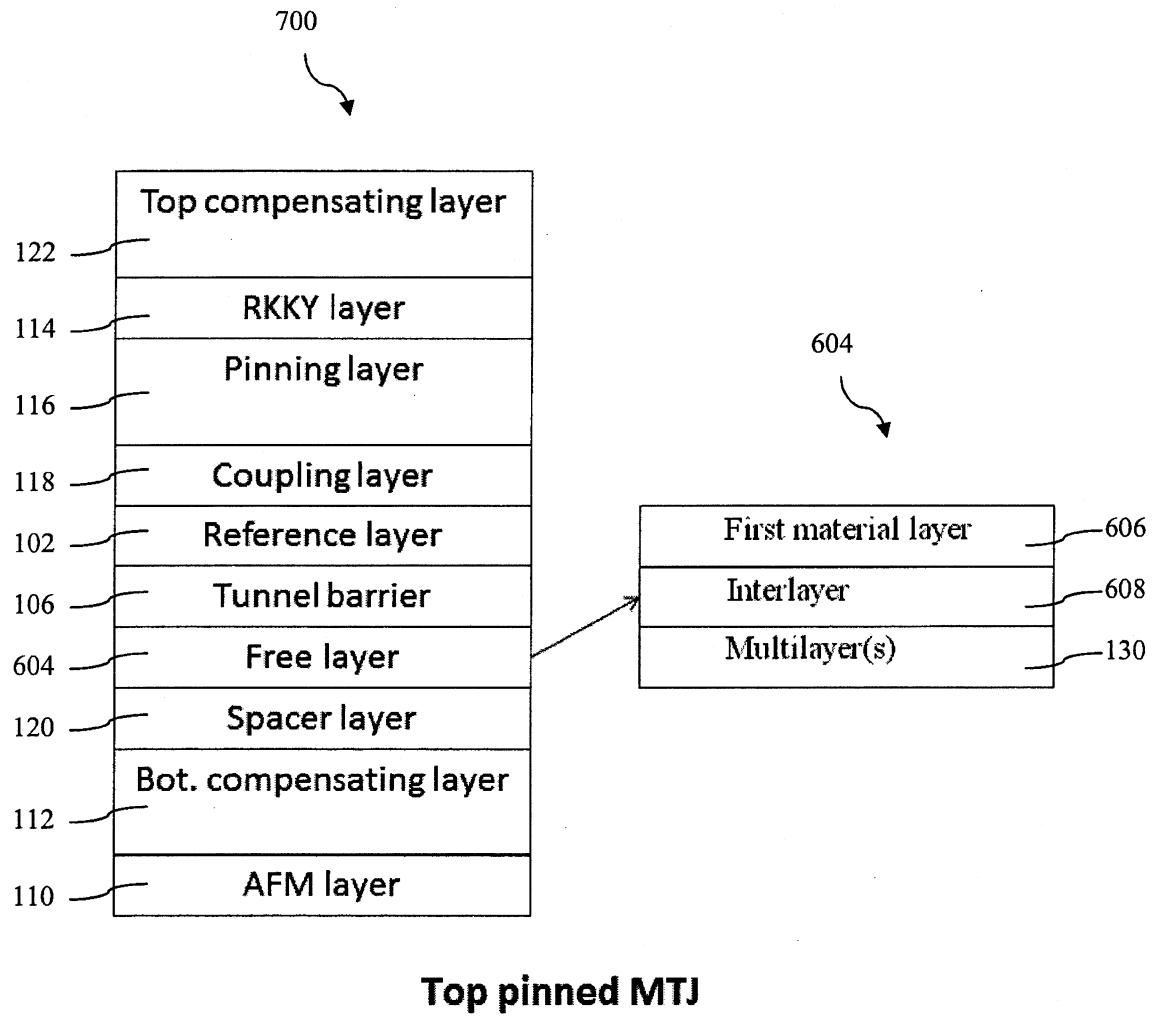
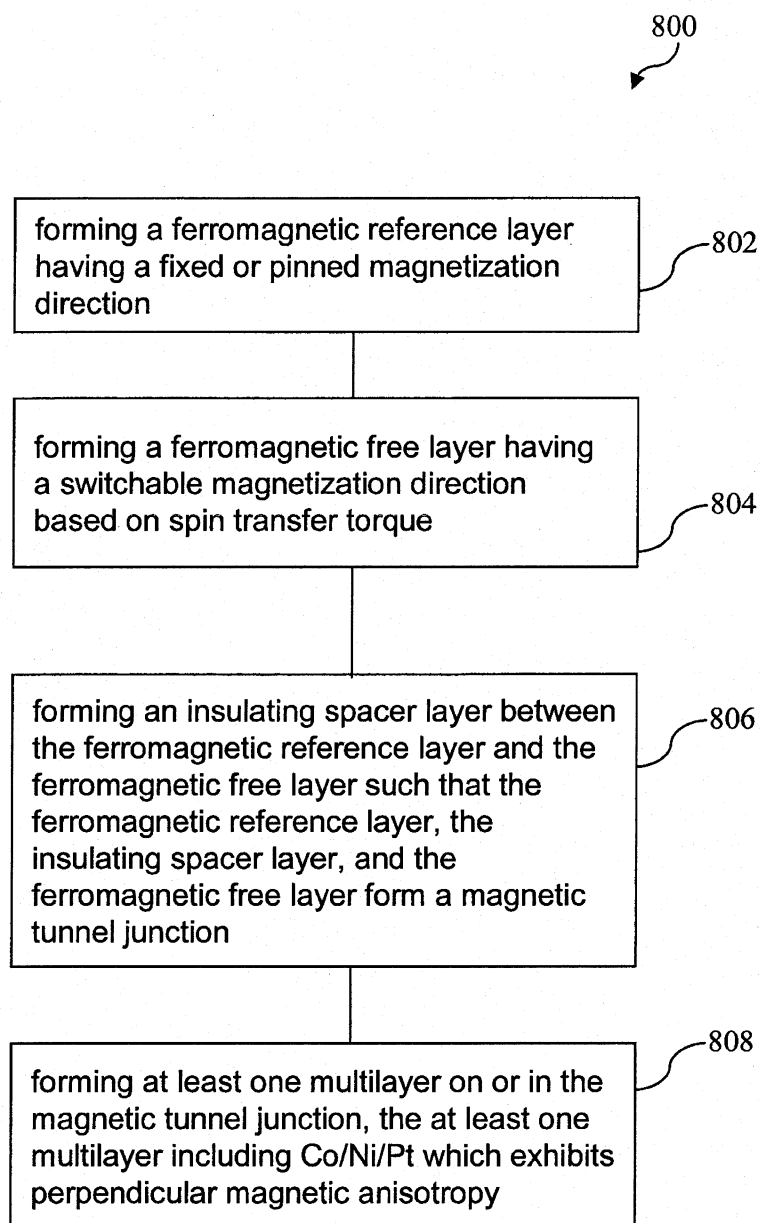


FIG. 7

**FIG. 8**

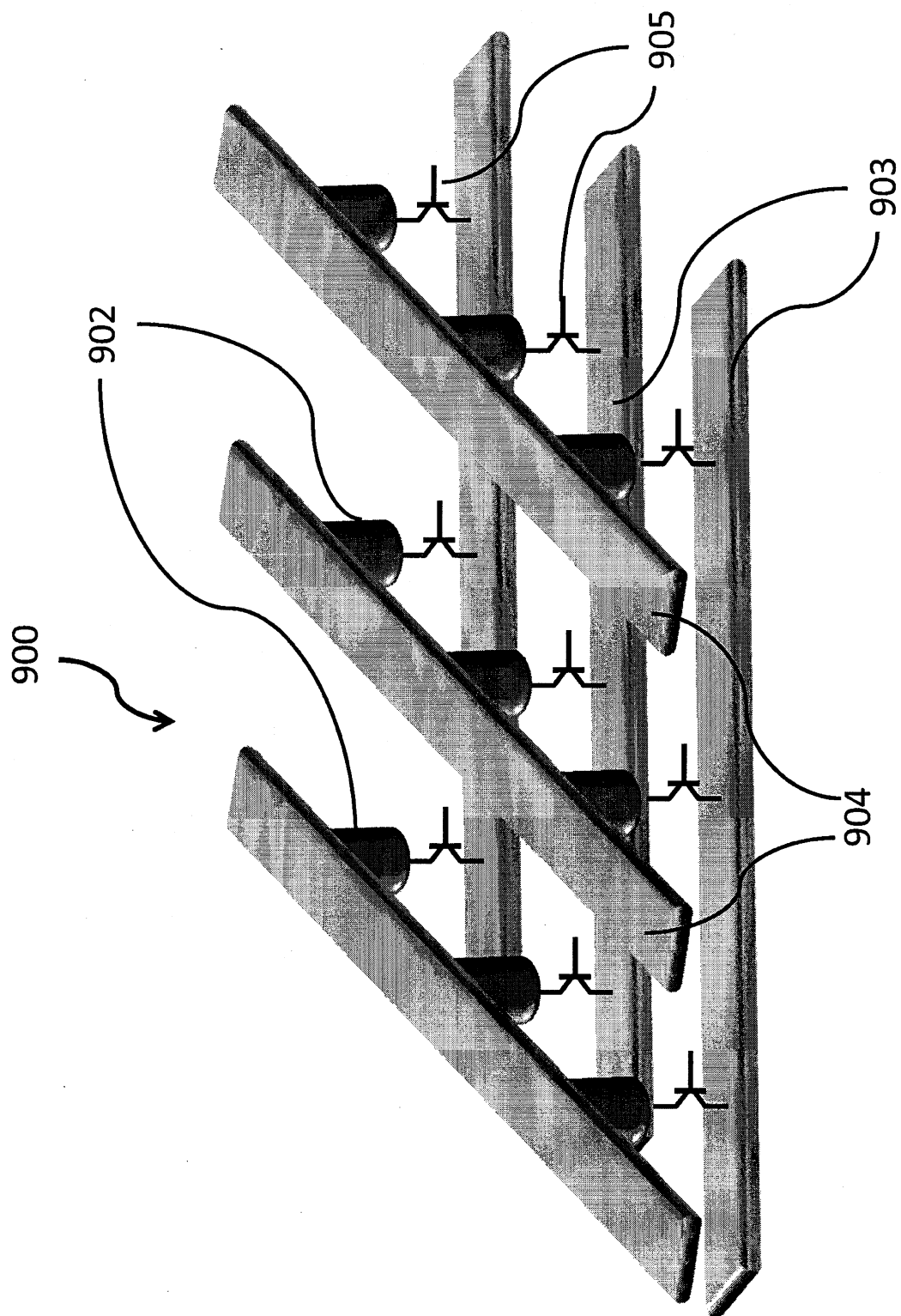


FIG. 9