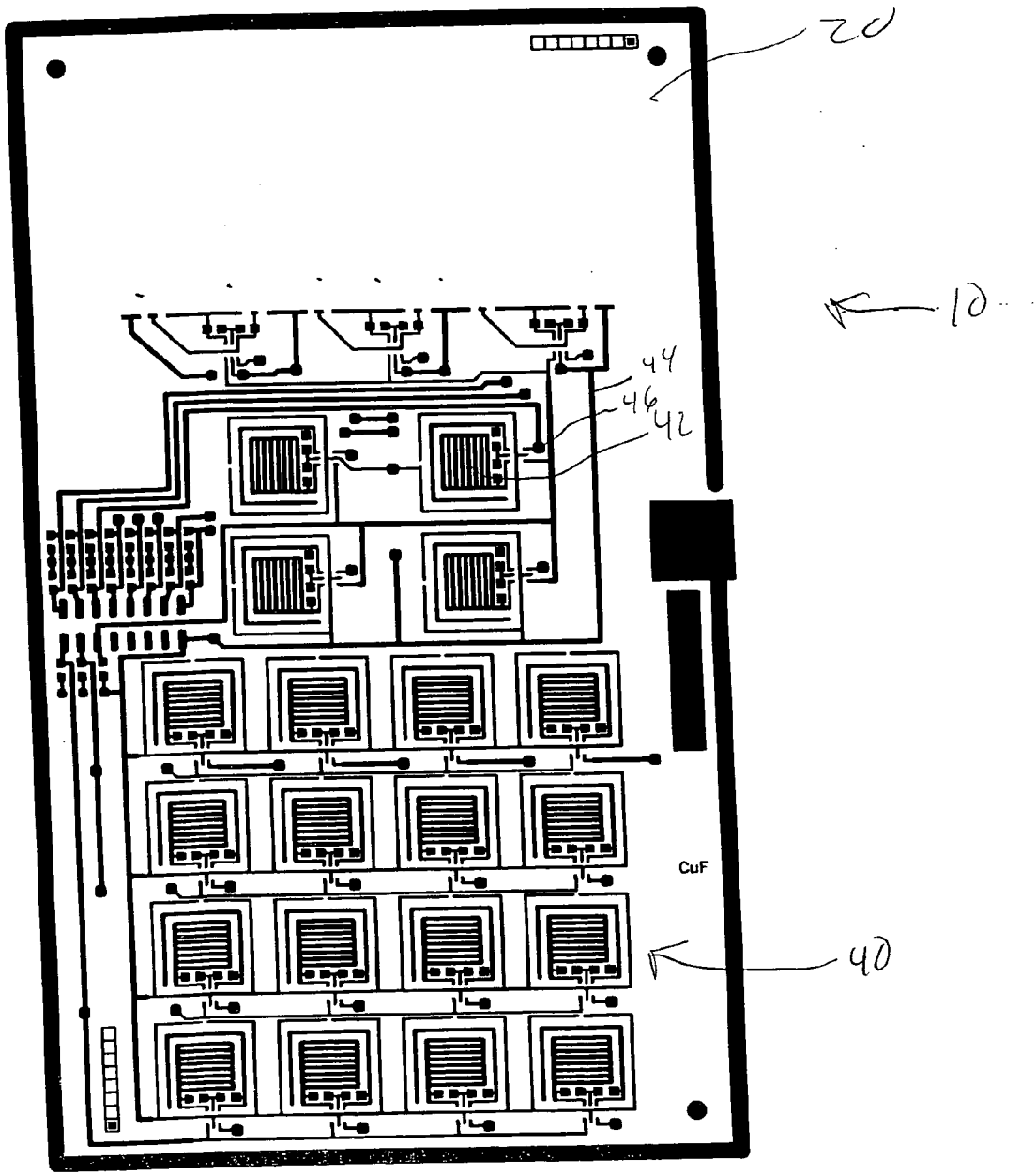FIG 4