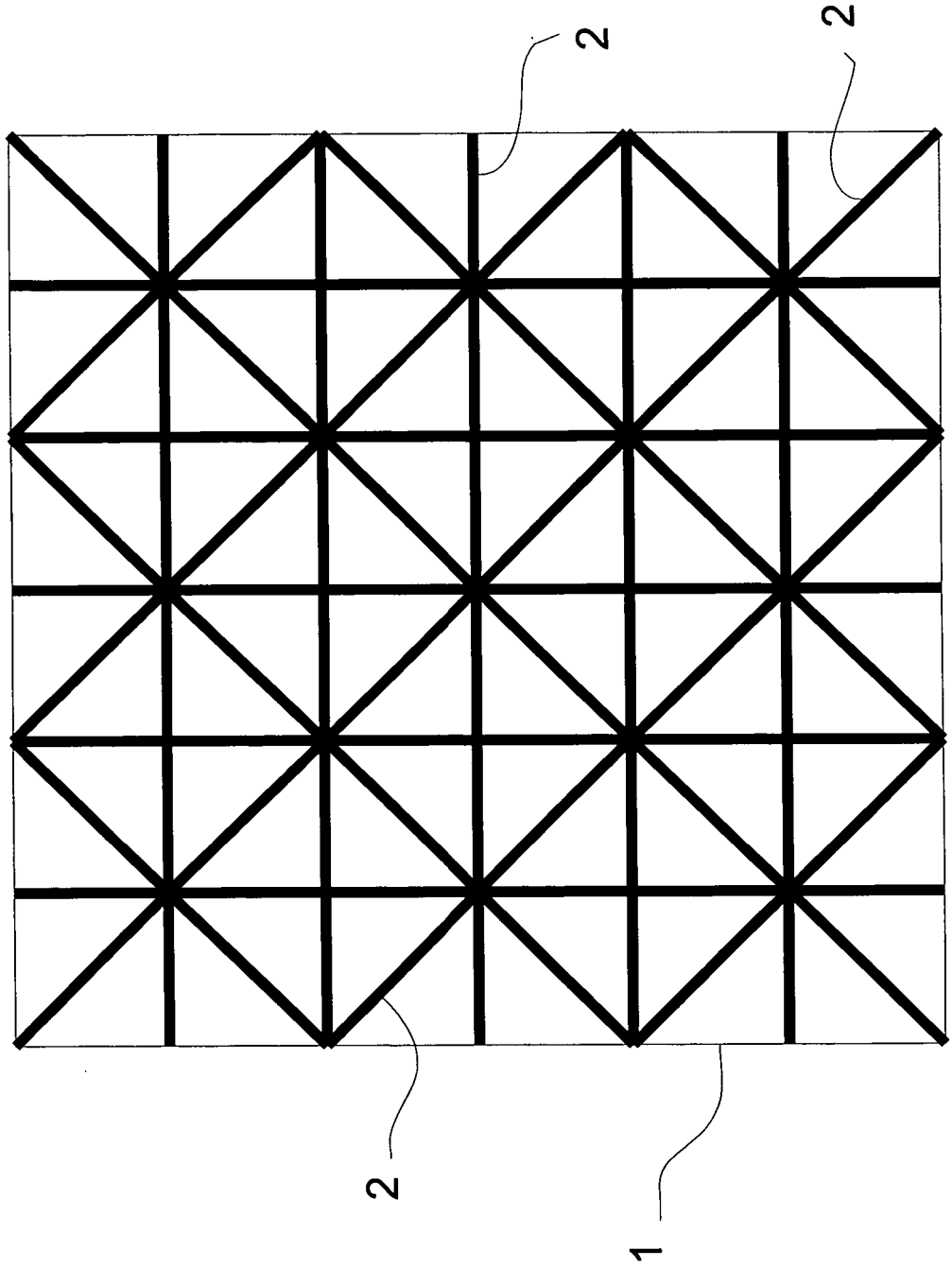FIG 2a