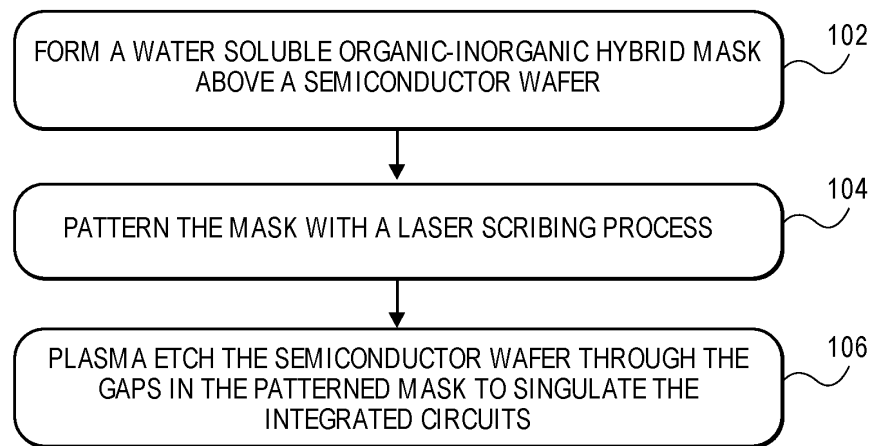


FLOWCHART 100**FIG. 1**

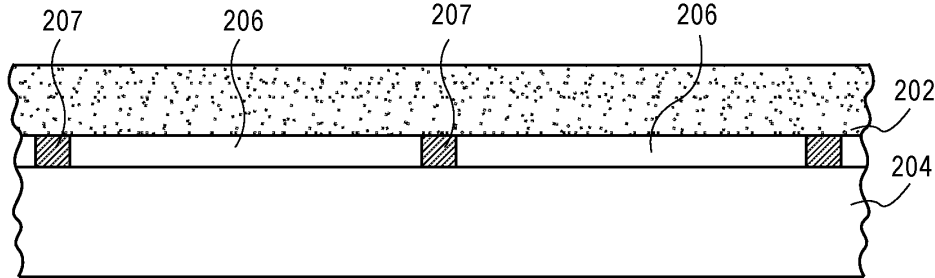


FIG. 2A

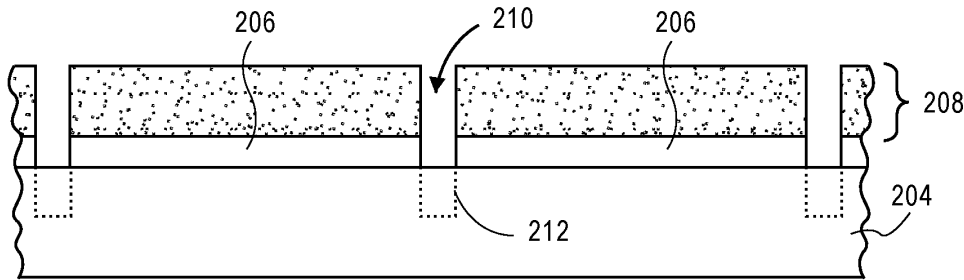


FIG. 2B

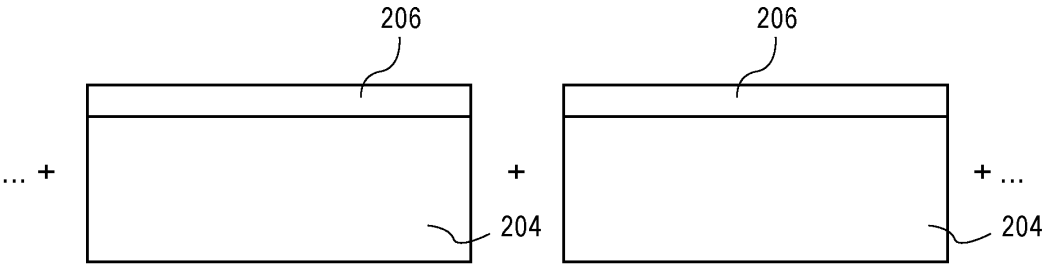


FIG. 2C

300

Materials Ratio by weight	Etched Trench Depth in Si (um)	Mark loss during etch (um)	Selectivity = Etch Depth/Mask Loss
PVA (reference no metal compound)	110	6.8	16:1
Al-PVA 1:2	140	1.0	140:1
Al-PVA 1:3	135	1.2	112:1
Al-PVA 1:4	130	1.4	93:1
Al-PVA 1:6	130	3.6	36:1
Al-PVA-PVP 1:2:1	140	1.1	127:1

PVA is poly(vinyl alcohol)
PVP is poly(vinyl pyrrolidone)
Al is aluminum acetate dibasic, stabilized by boric acid

FIG. 3

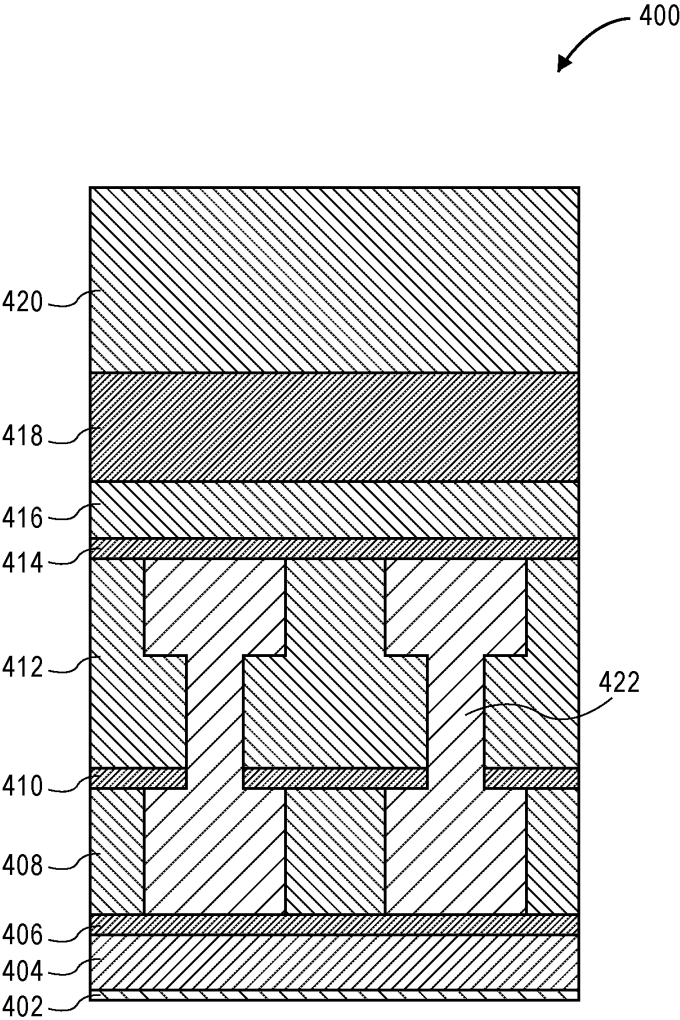


FIG. 4

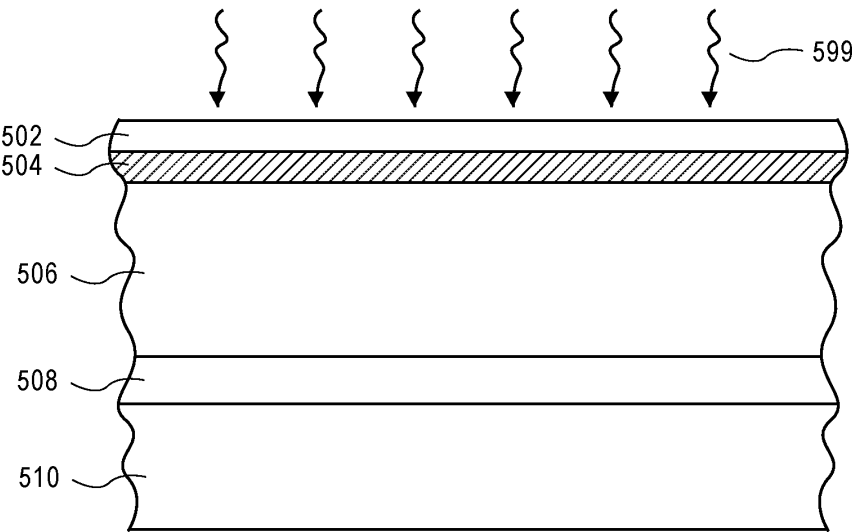


FIG. 5A

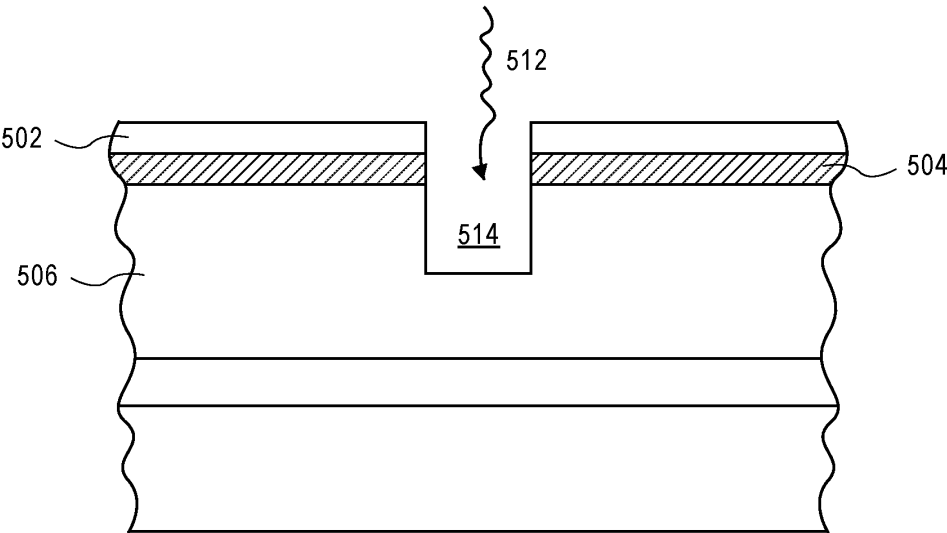


FIG. 5B

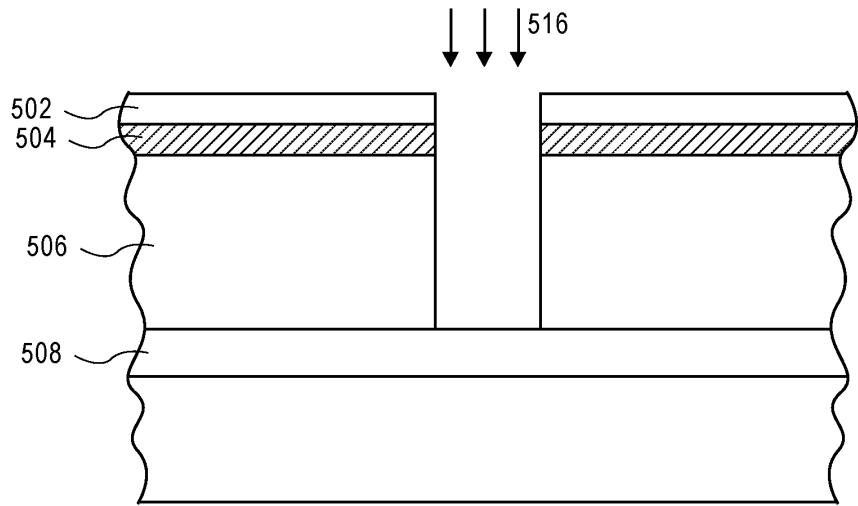


FIG. 5C

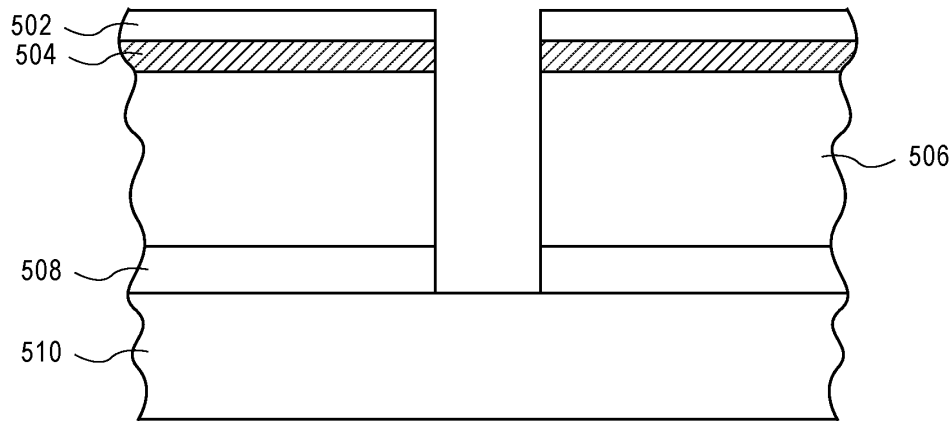


FIG. 5D

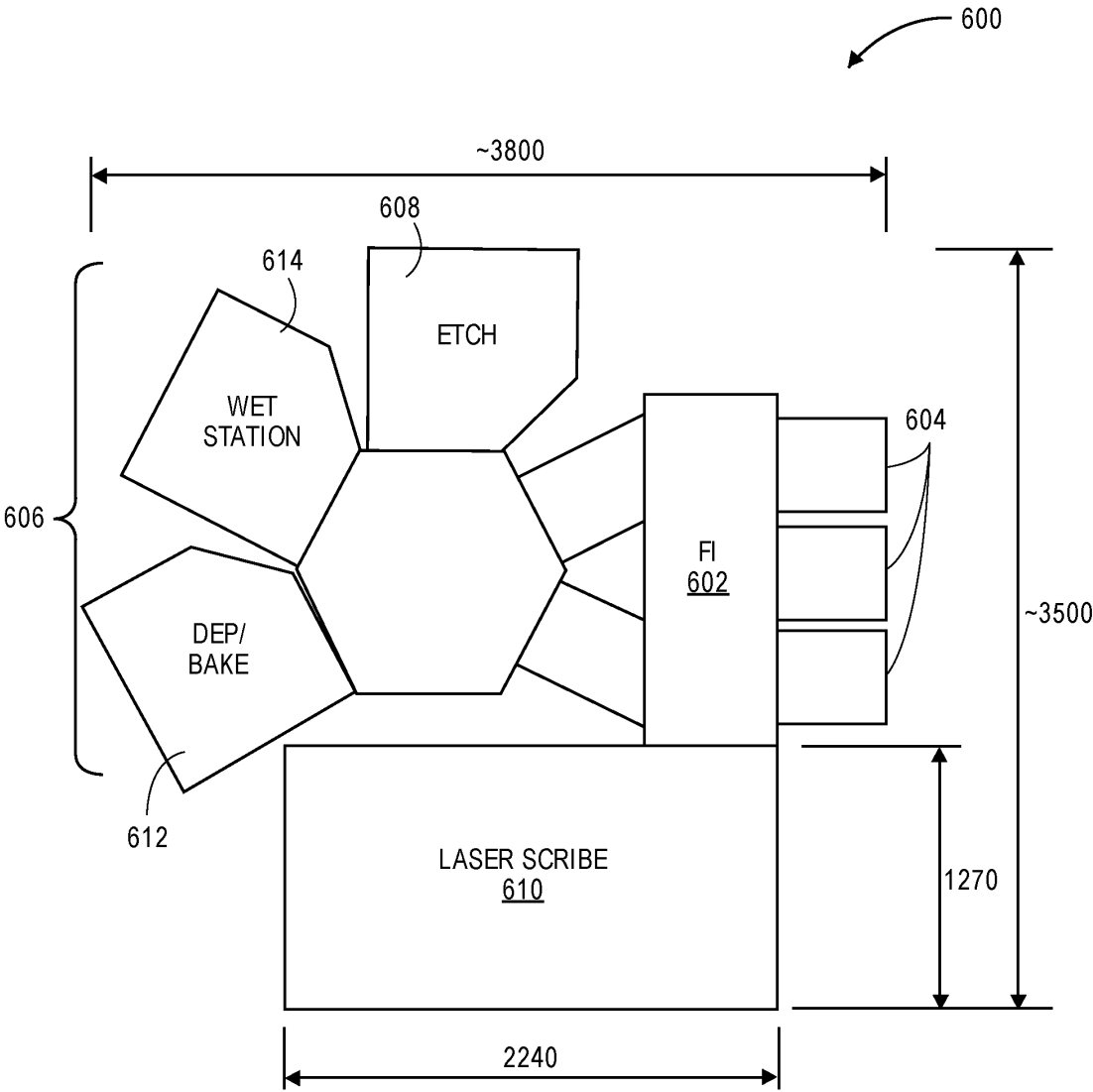


FIG. 6

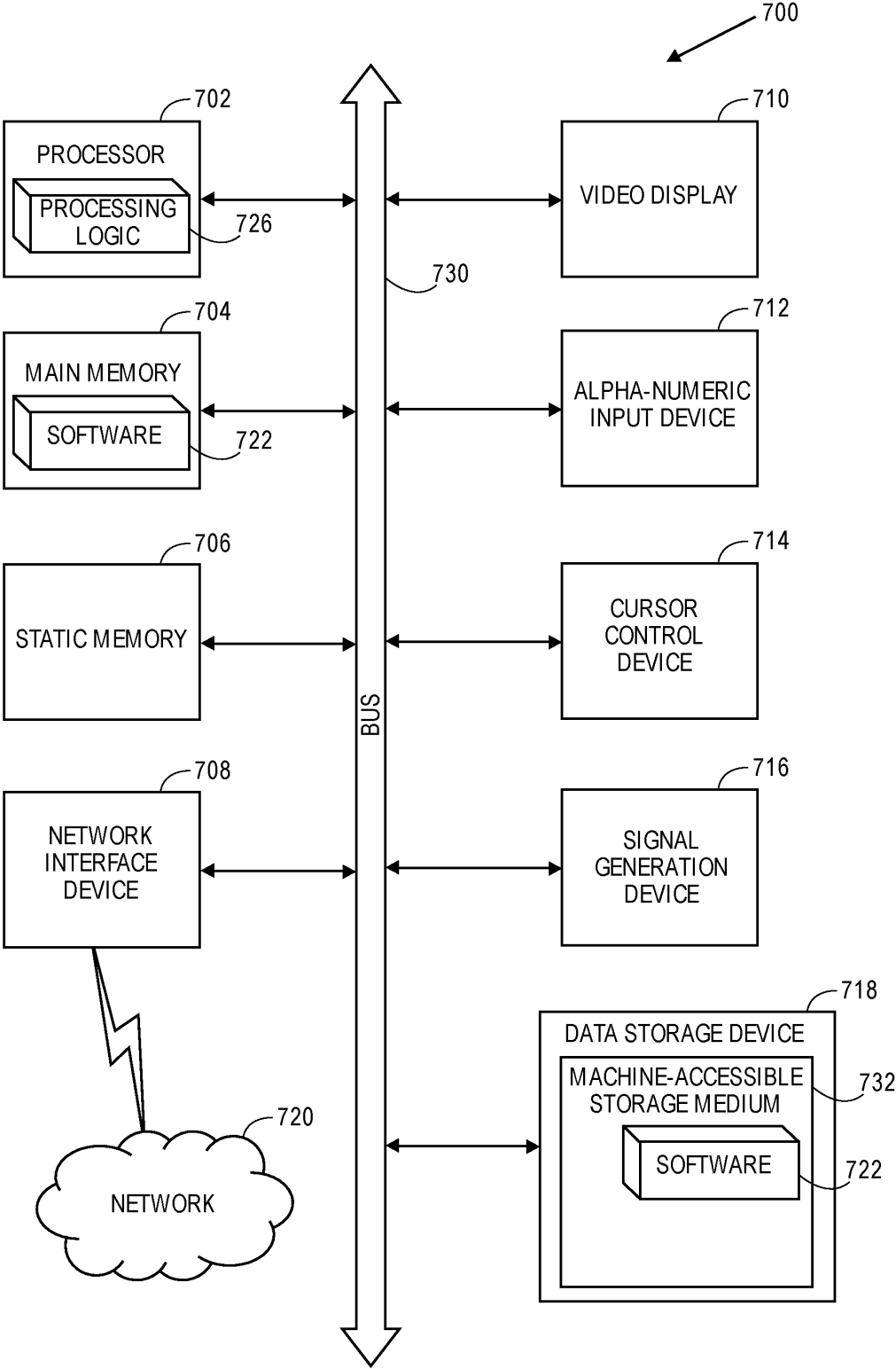


FIG. 7