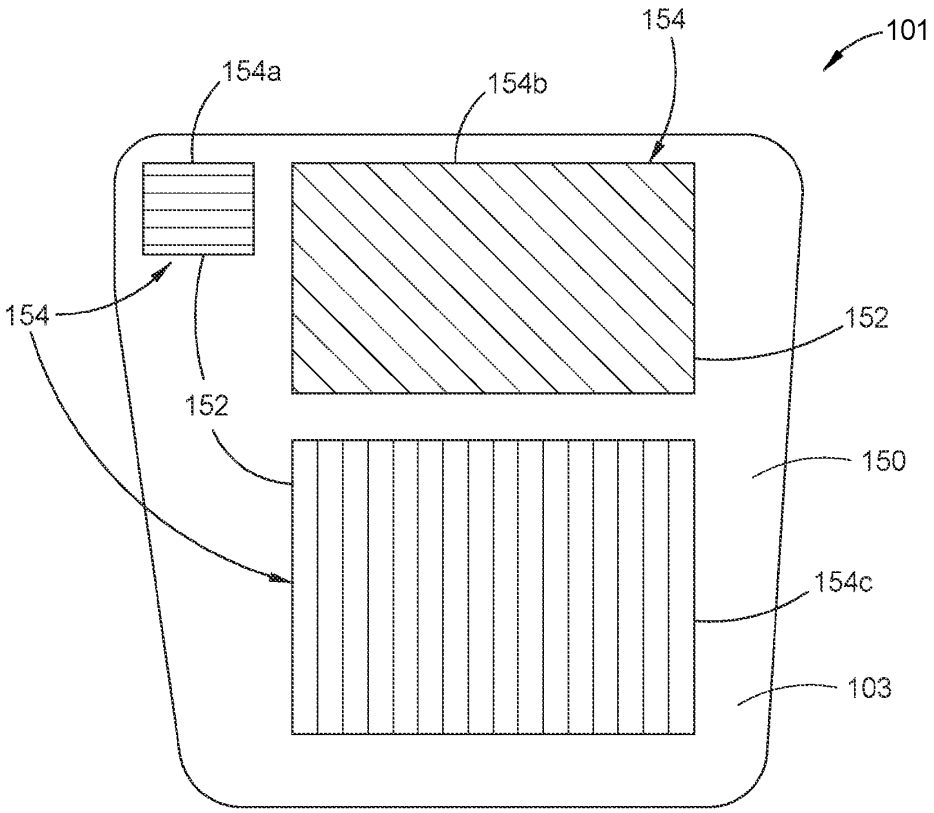


FIG. 1A

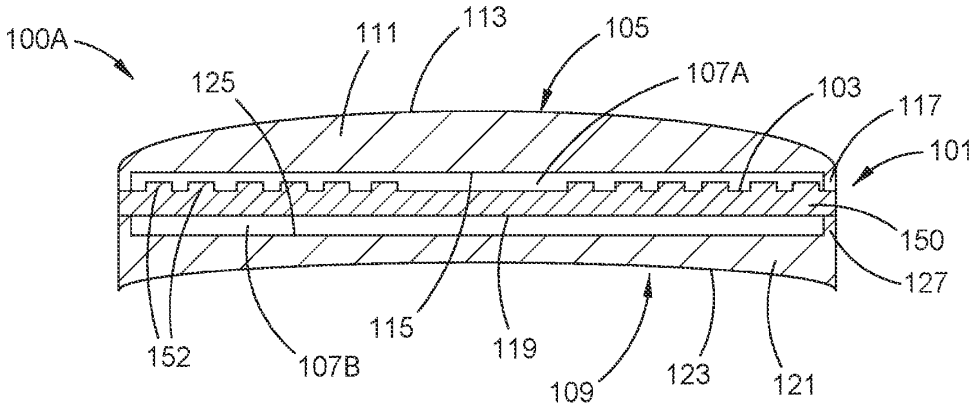

100A
111
113
105
125
107A
103
117
101
150
127
152
107B
115
119
109
123
121

FIG. 1B

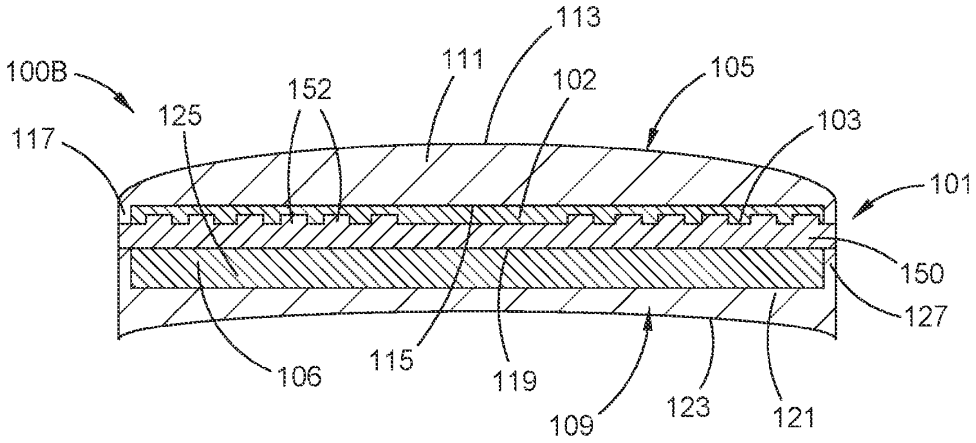

100B
113
111
105
152
102
125
103
117
101
150
127
106
115
119
109
123
121

FIG. 1C

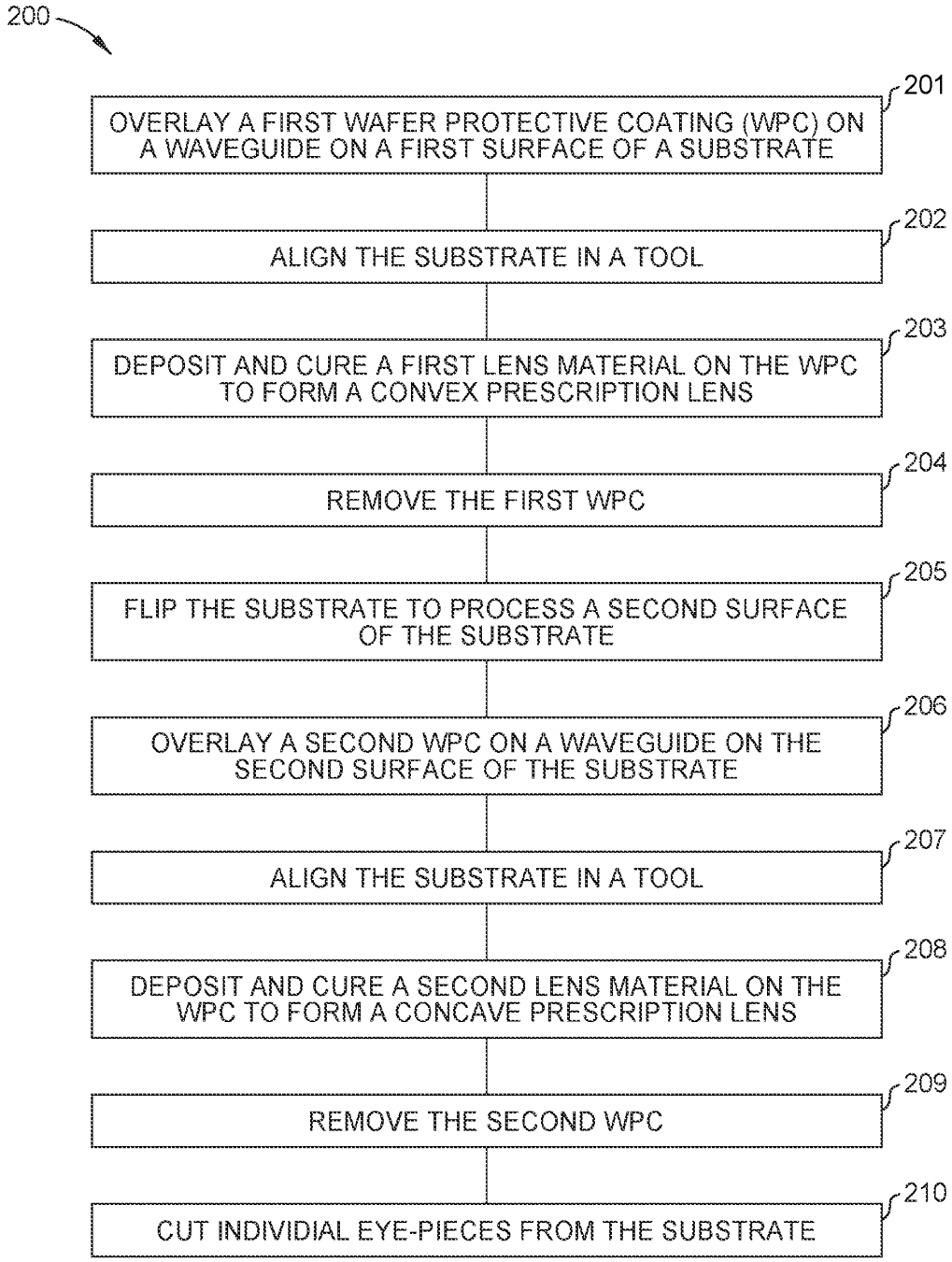

200
OVERLAY A FIRST WAFER PROTECTIVE COATING (WPC) ON A WAVEGUIDE ON A FIRST SURFACE OF A SUBSTRATE
201
ALIGN THE SUBSTRATE IN A TOOL
202
DEPOSIT AND CURE A FIRST LENS MATERIAL ON THE WPC TO FORM A CONVEX PRESCRIPTION LENS
203
REMOVE THE FIRST WPC
204
FLIP THE SUBSTRATE TO PROCESS A SECOND SURFACE OF THE SUBSTRATE
205
OVERLAY A SECOND WPC ON A WAVEGUIDE ON THE SECOND SURFACE OF THE SUBSTRATE
206
ALIGN THE SUBSTRATE IN A TOOL
207
DEPOSIT AND CURE A SECOND LENS MATERIAL ON THE WPC TO FORM A CONCAVE PRESCRIPTION LENS
208
REMOVE THE SECOND WPC
209
CUT INDIVIDIAL EYE-PIECES FROM THE SUBSTRATE
210

FIG. 2

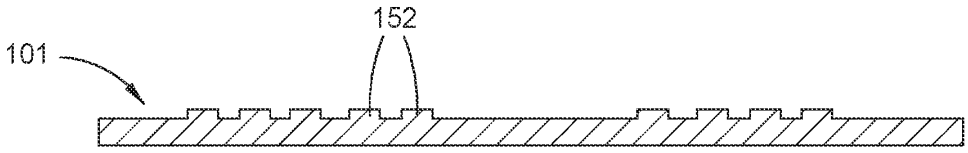


FIG. 3A

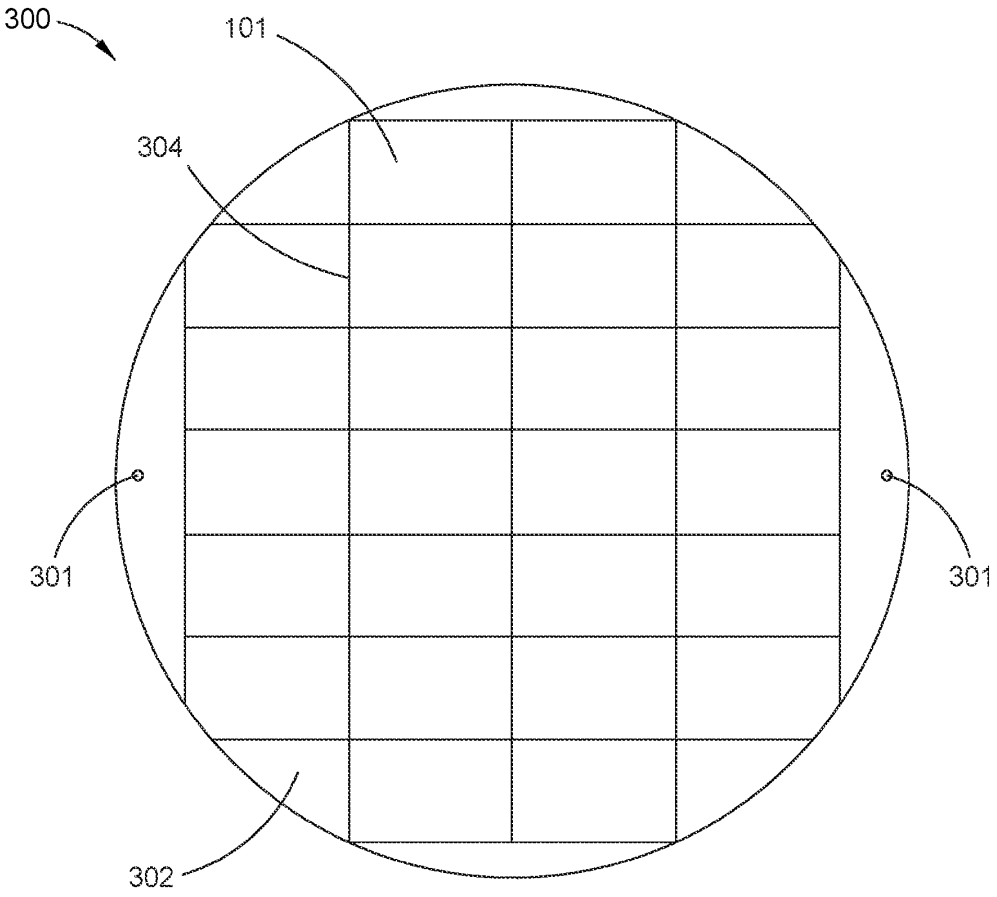


FIG. 3B

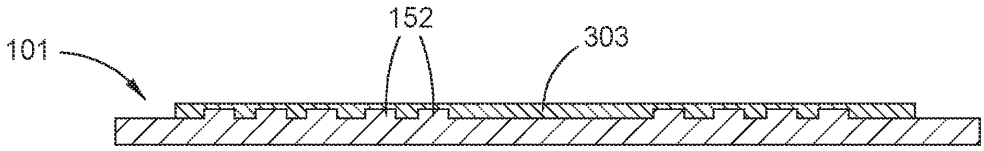


FIG. 3C

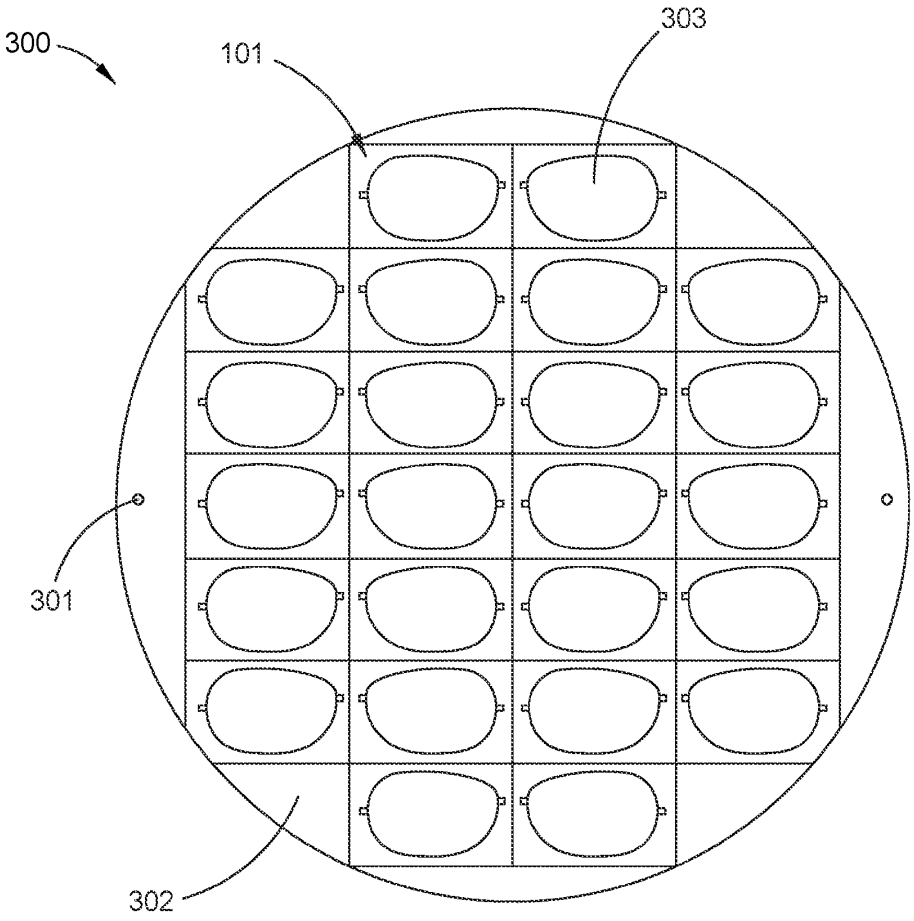


FIG. 3D

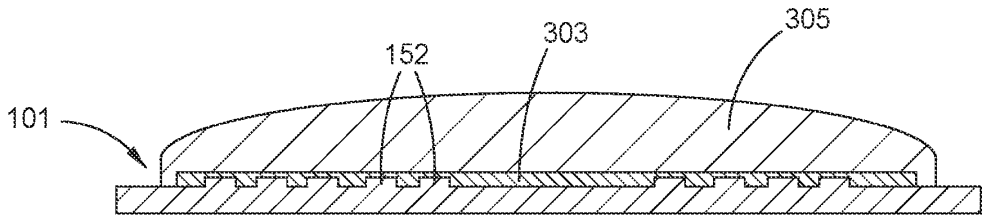


FIG. 3E

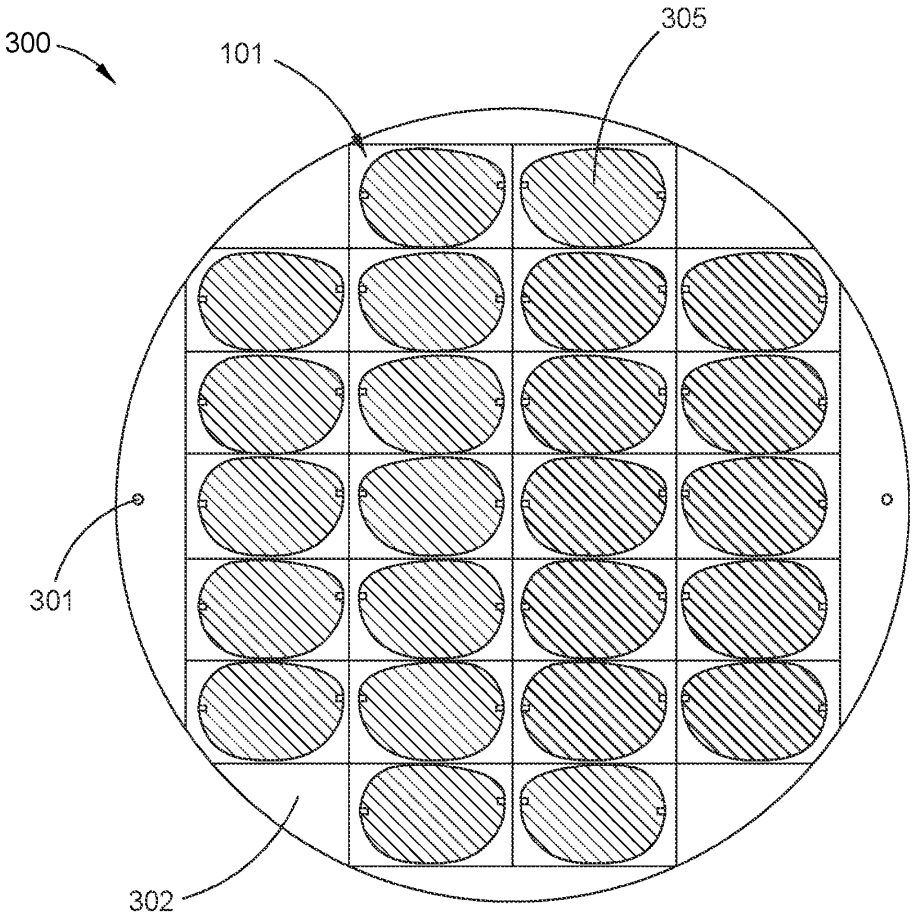


FIG. 3F

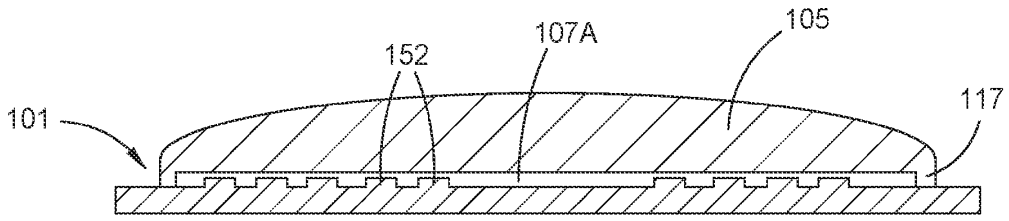


FIG. 3G

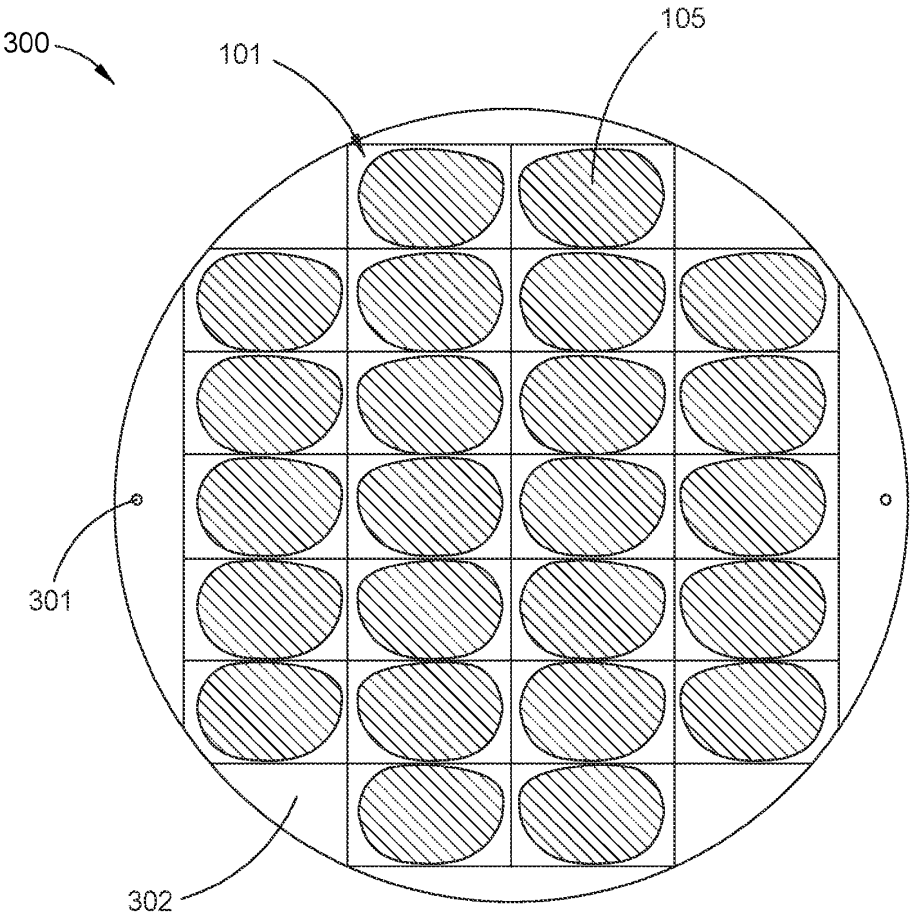


FIG. 3H

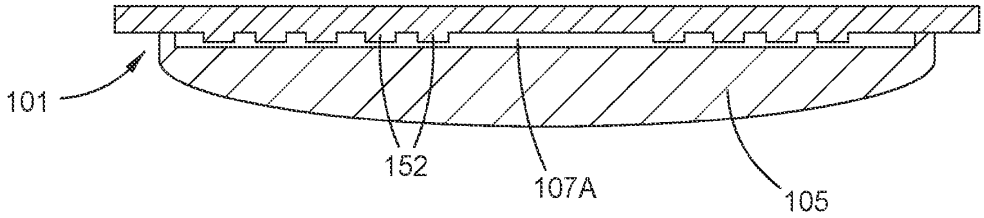


FIG. 3I

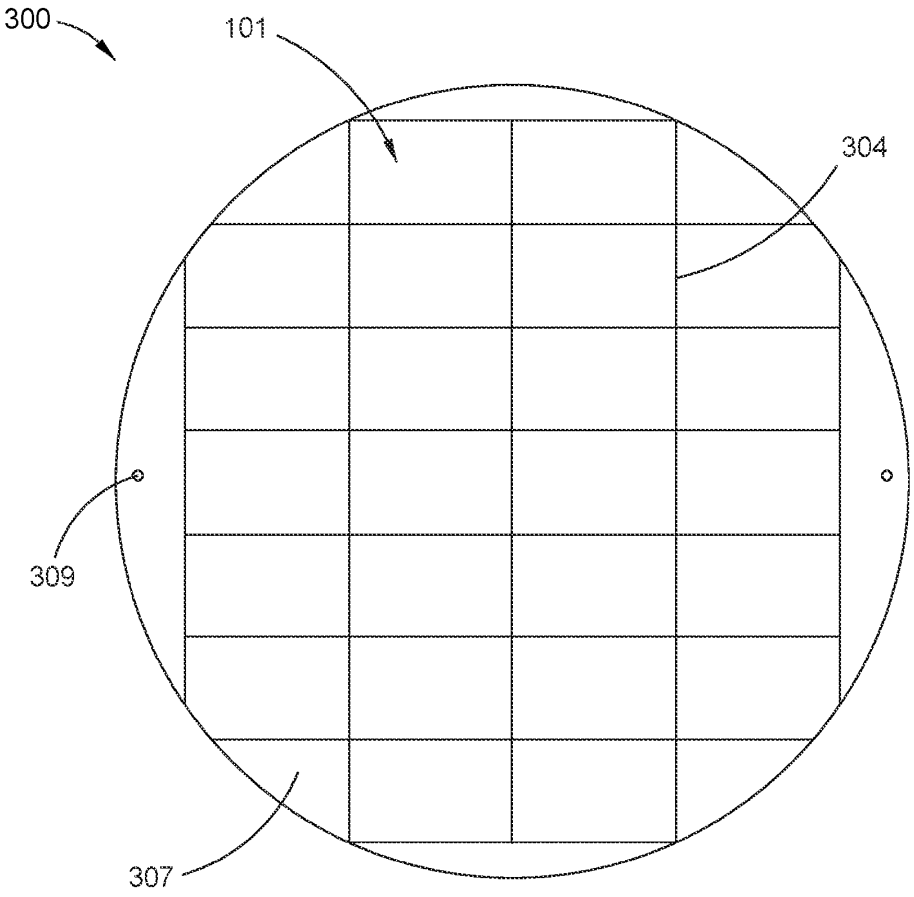


FIG. 3J

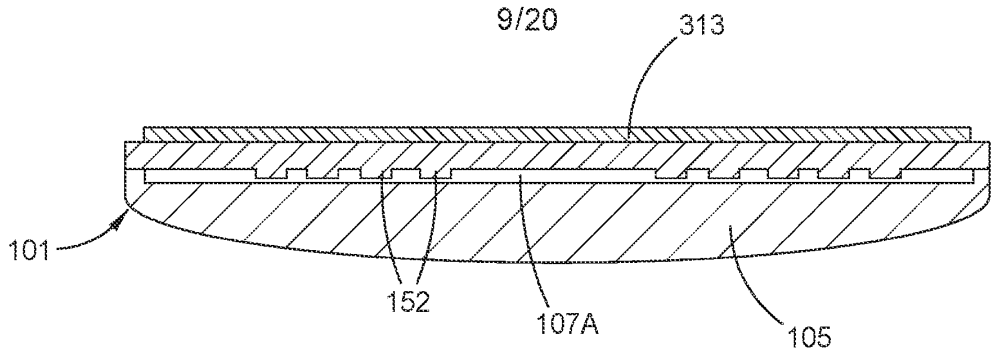


FIG. 3K

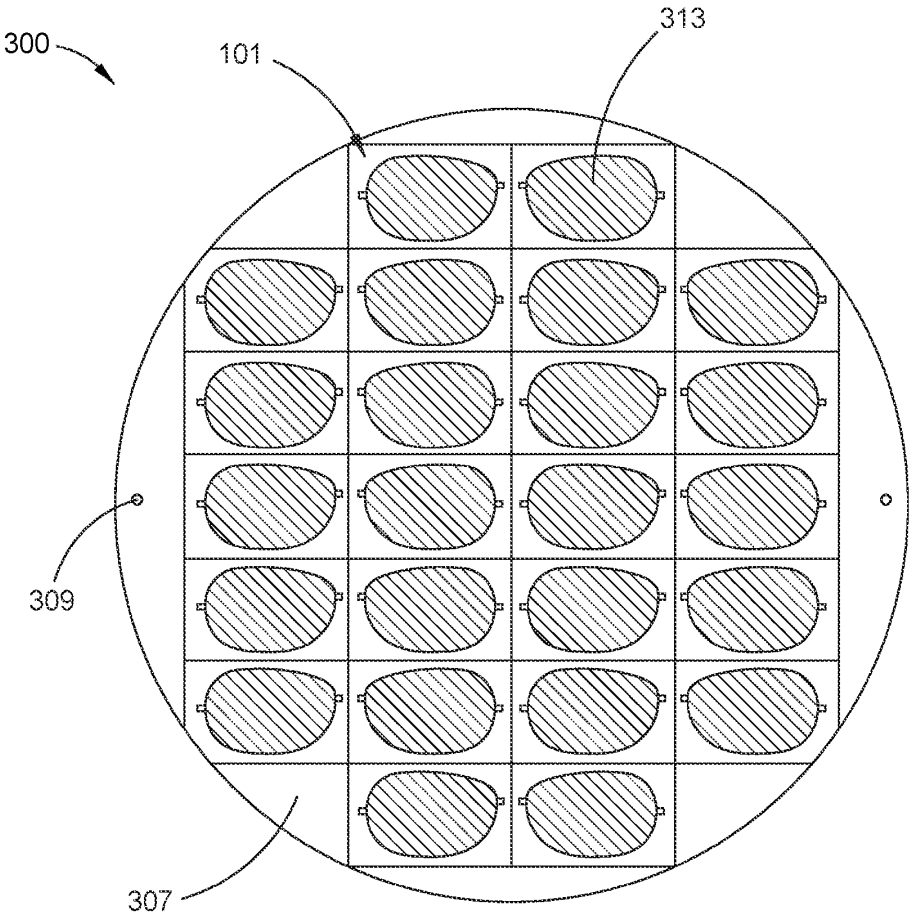


FIG. 3L

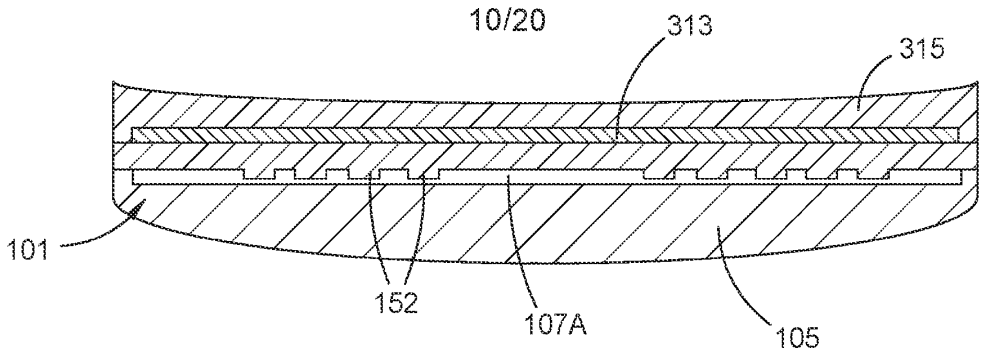


FIG. 3M

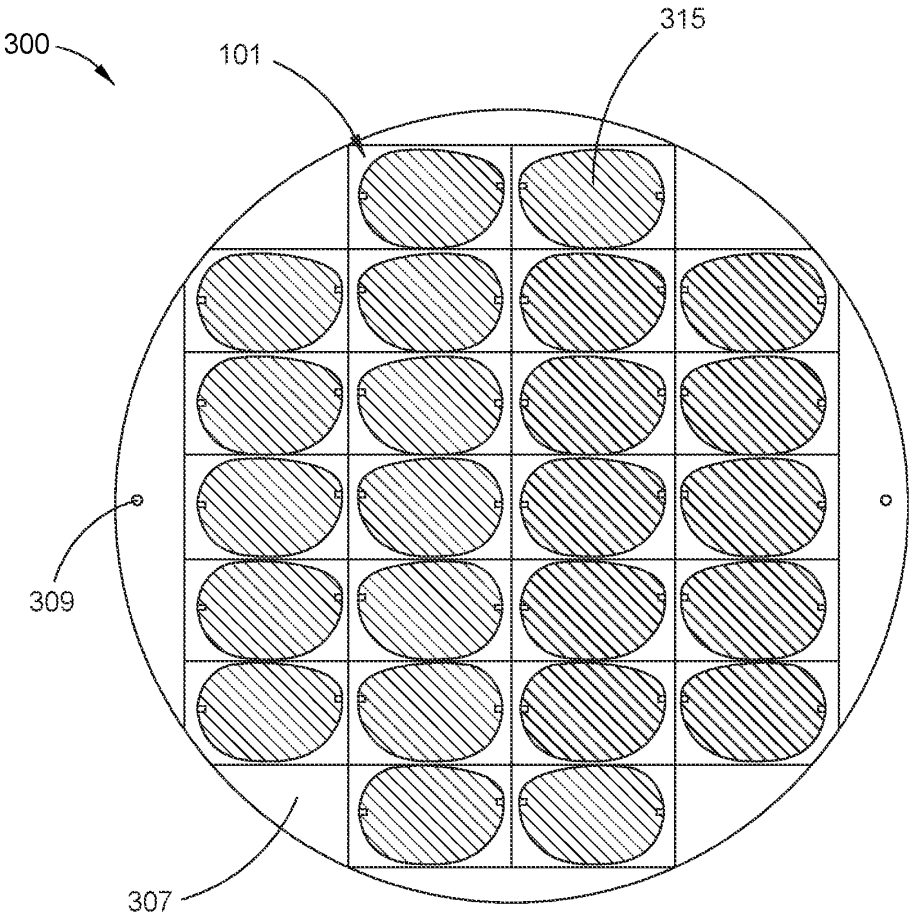


FIG. 3N

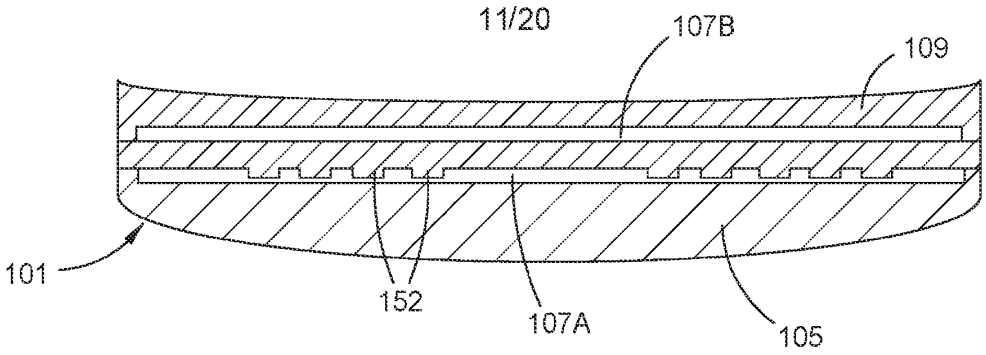


FIG. 3O

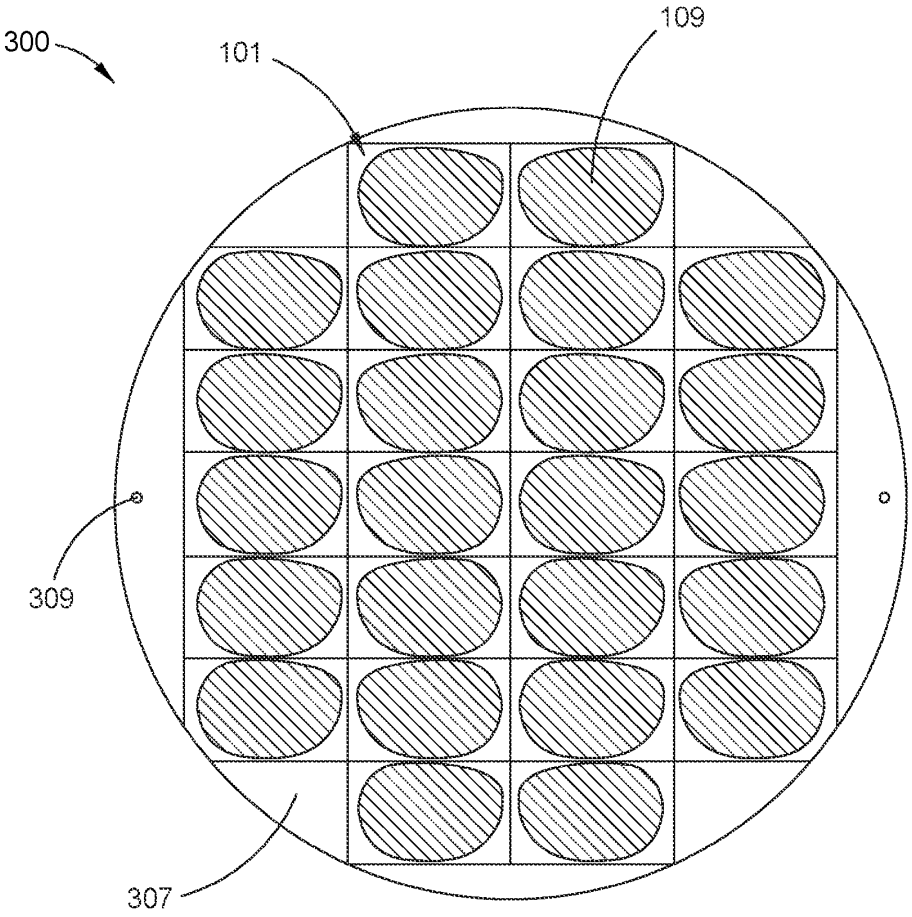


FIG. 3P

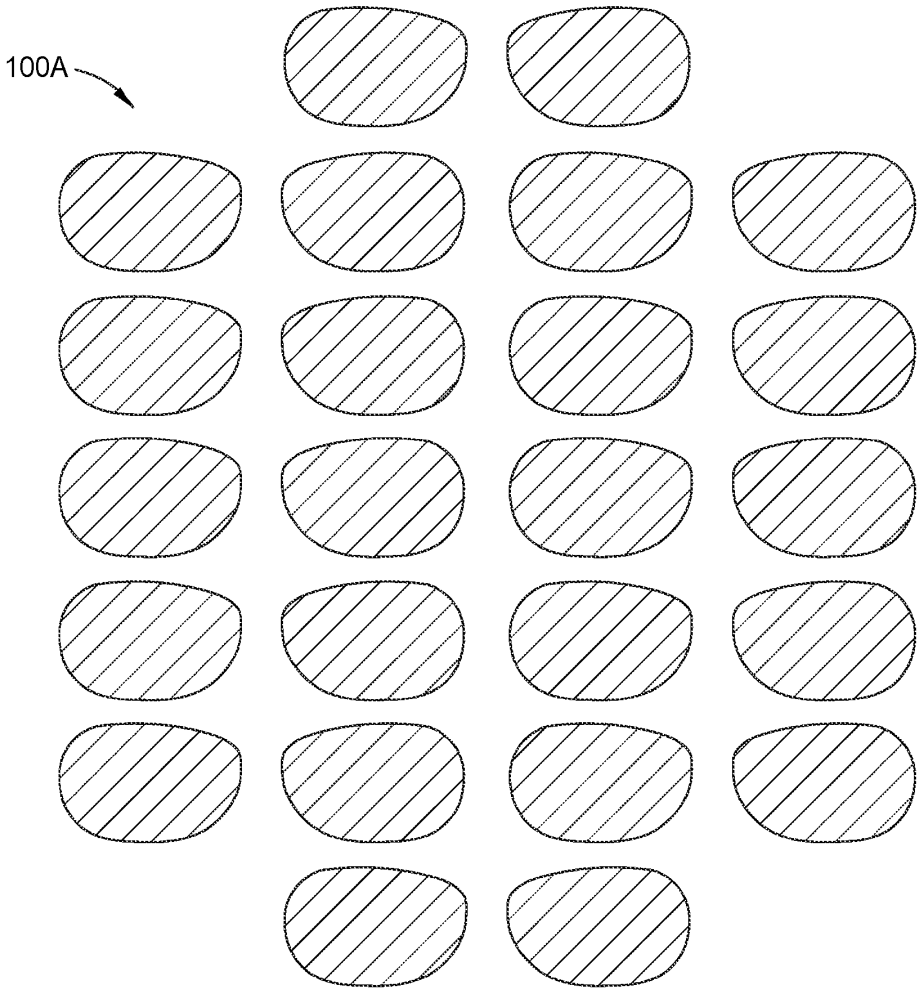


FIG. 3Q

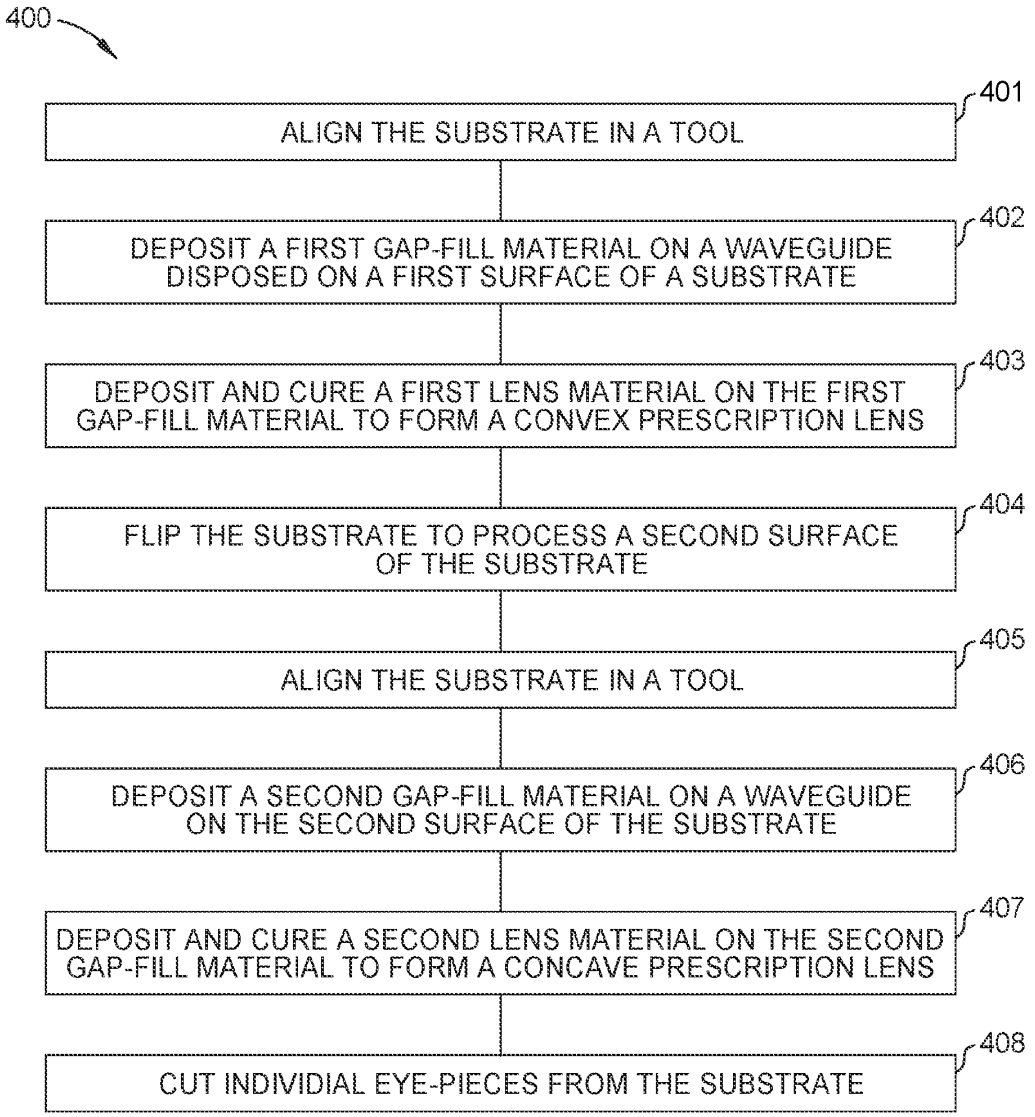

400
401
ALIGN THE SUBSTRATE IN A TOOL
402
DEPOSIT A FIRST GAP-FILL MATERIAL ON A WAVEGUIDE DISPOSED ON A FIRST SURFACE OF A SUBSTRATE
403
DEPOSIT AND CURE A FIRST LENS MATERIAL ON THE FIRST GAP-FILL MATERIAL TO FORM A CONVEX PRESCRIPTION LENS
404
FLIP THE SUBSTRATE TO PROCESS A SECOND SURFACE OF THE SUBSTRATE
405
ALIGN THE SUBSTRATE IN A TOOL
406
DEPOSIT A SECOND GAP-FILL MATERIAL ON A WAVEGUIDE ON THE SECOND SURFACE OF THE SUBSTRATE
407
DEPOSIT AND CURE A SECOND LENS MATERIAL ON THE SECOND GAP-FILL MATERIAL TO FORM A CONCAVE PRESCRIPTION LENS
408
CUT INDIVIDIAL EYE-PIECES FROM THE SUBSTRATE

FIG. 4

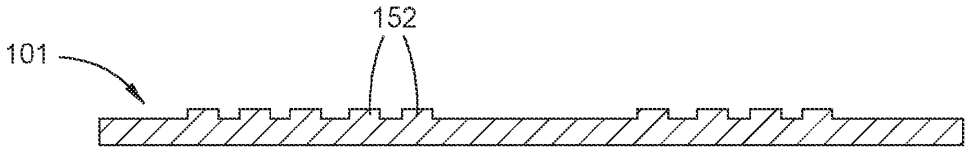


FIG. 5A

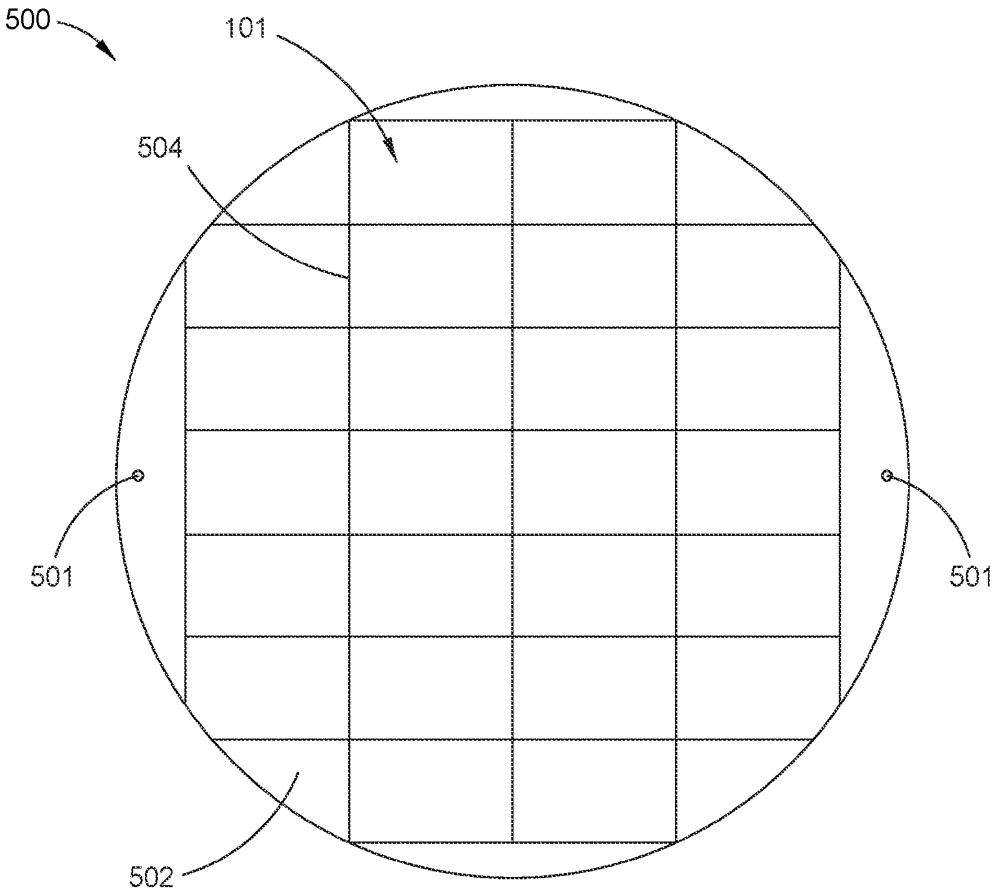


FIG. 5B

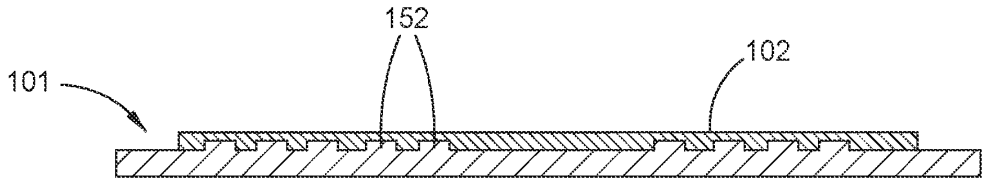


FIG. 5C

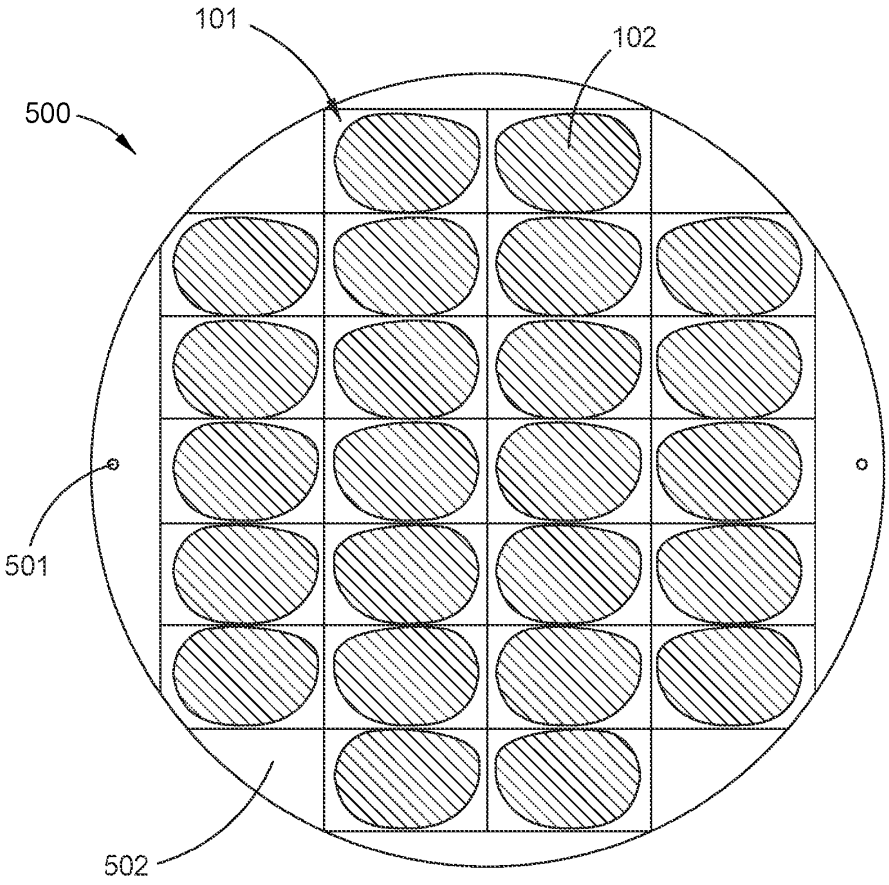


FIG. 5D

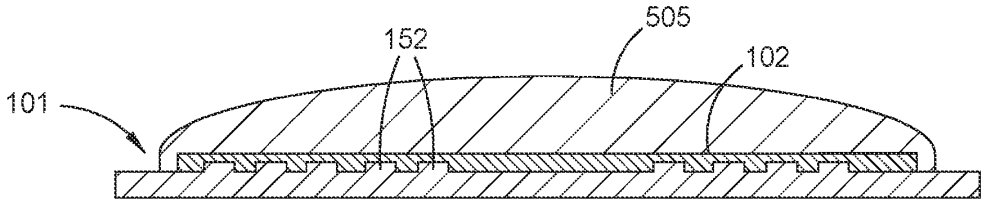


FIG. 5E

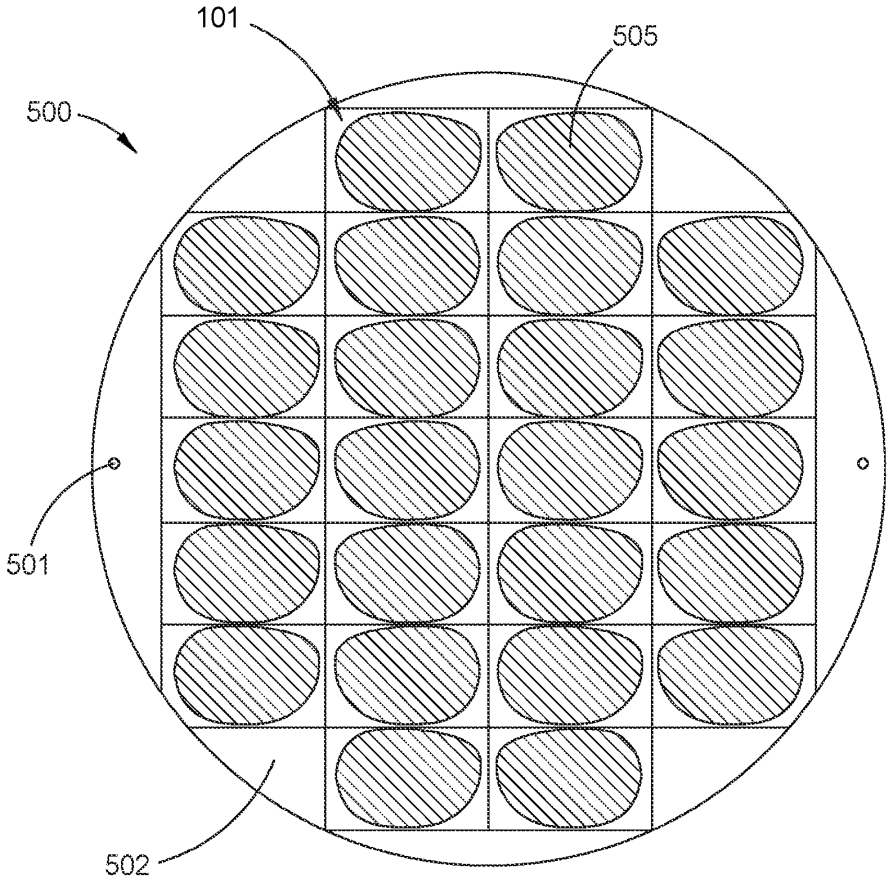


FIG. 5F

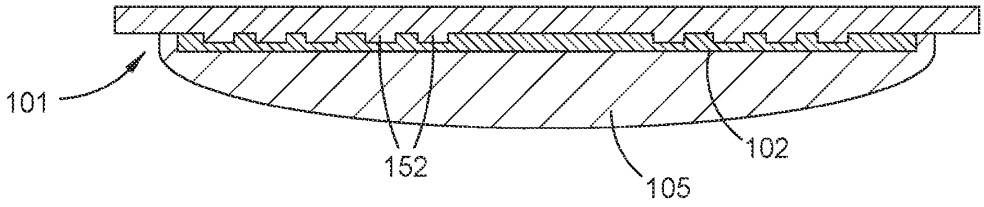


FIG. 5G

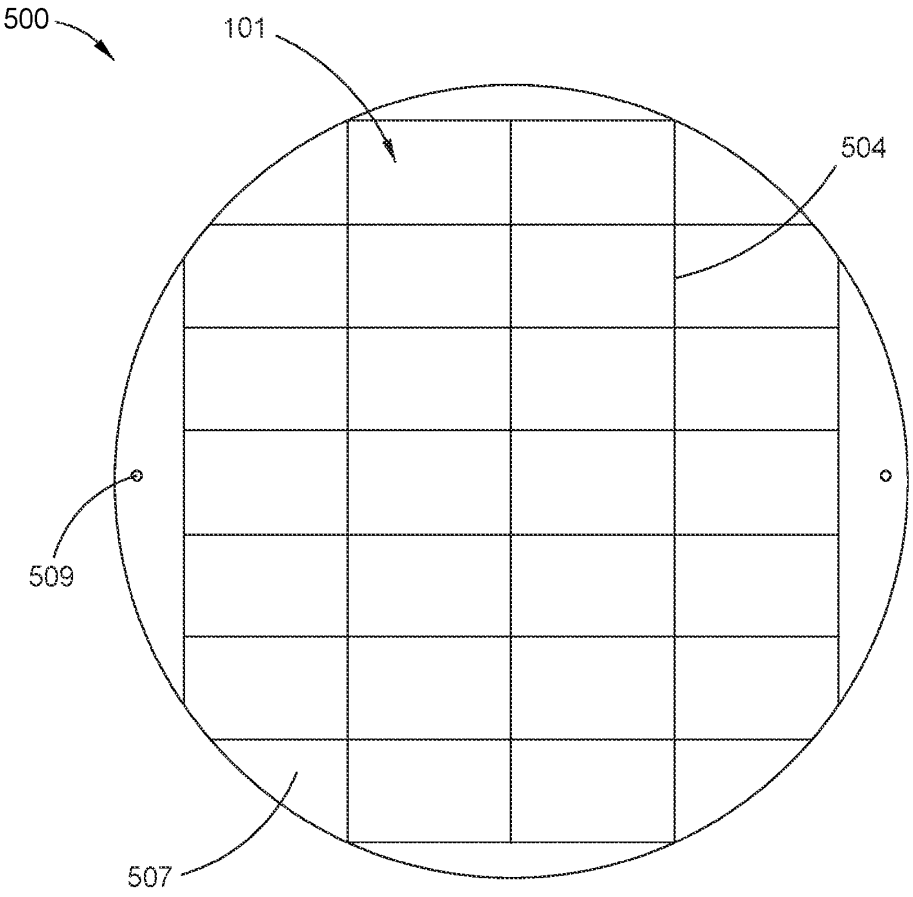


FIG. 5H

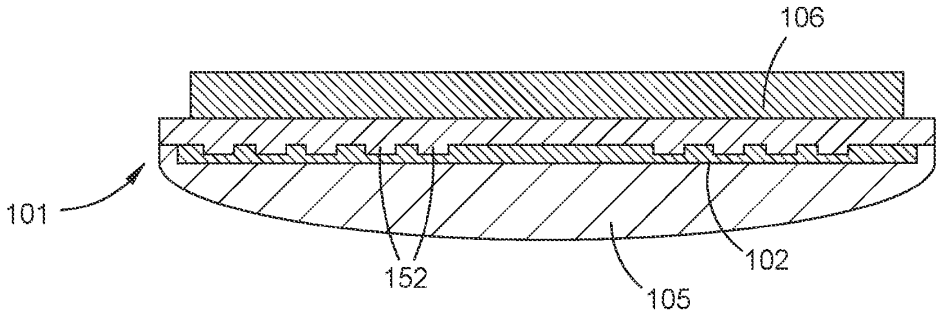


FIG. 5I

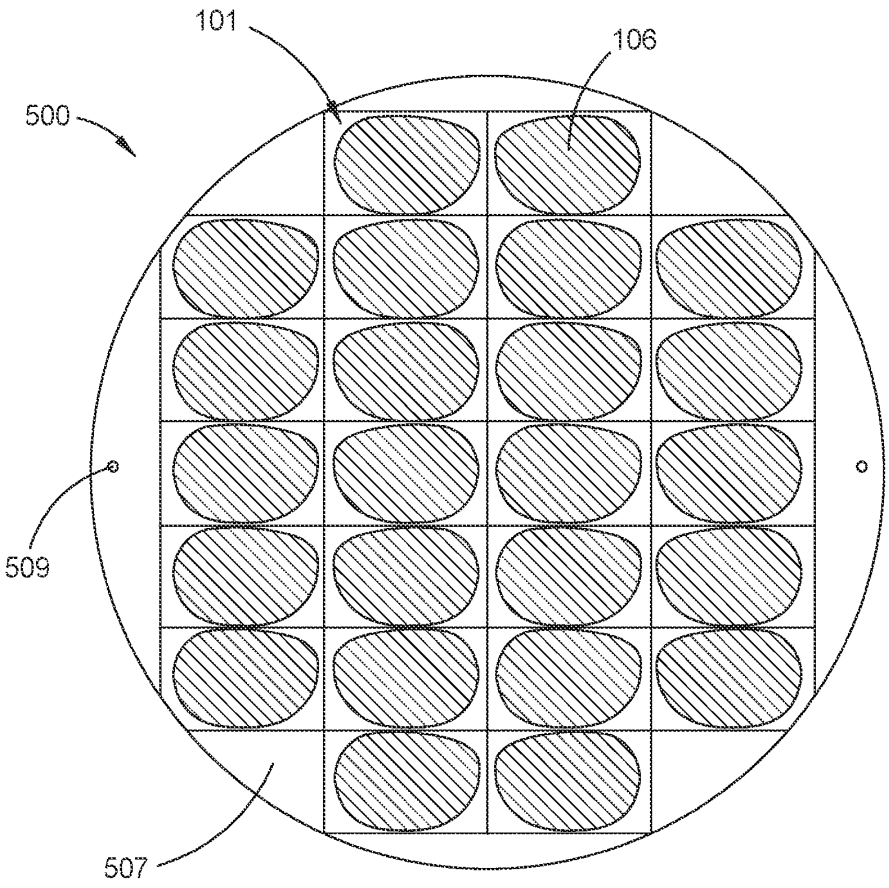


FIG. 5J

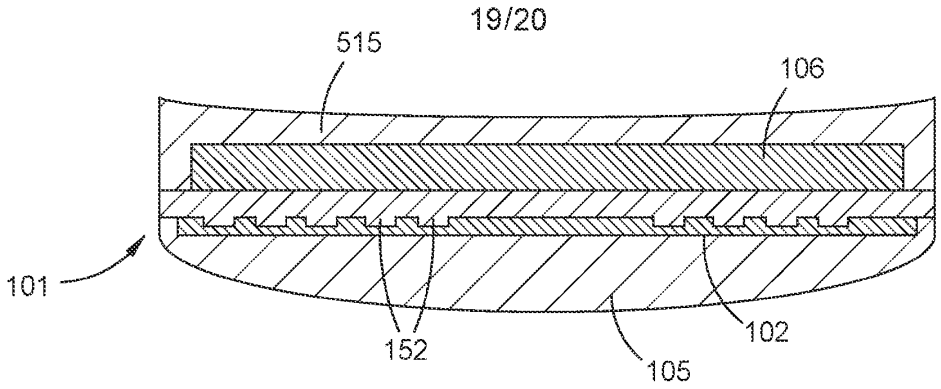


FIG. 5K

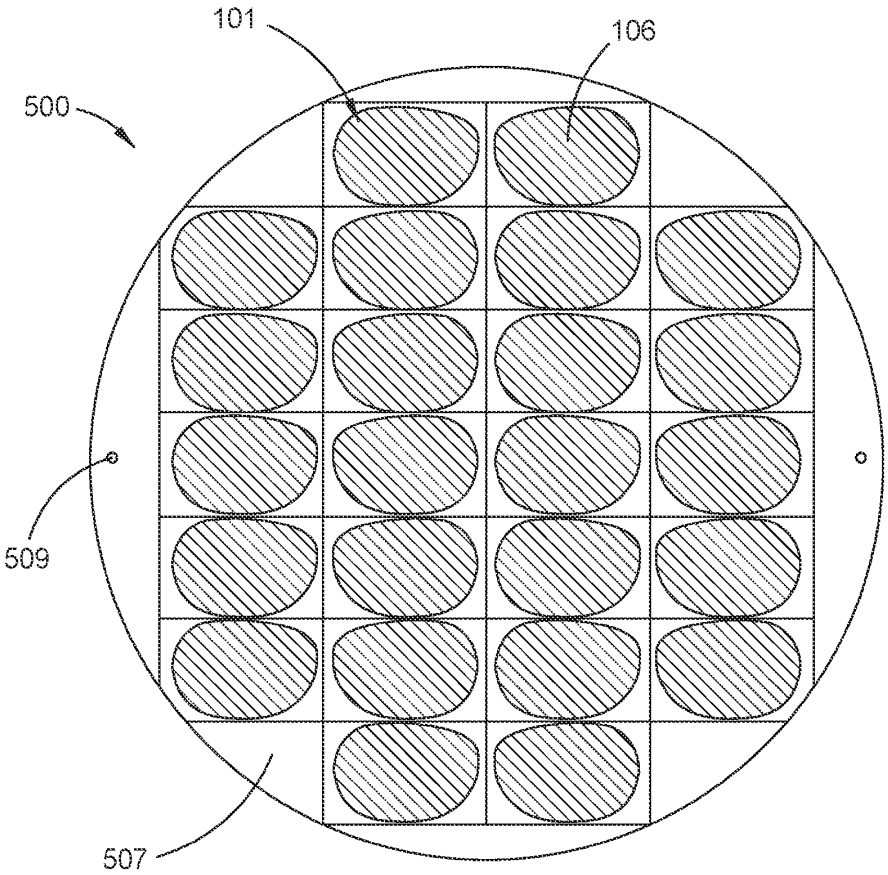


FIG. 5L

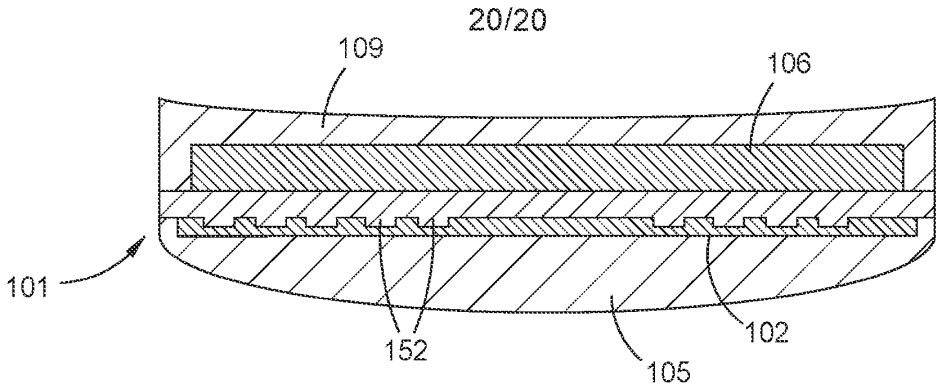


FIG. 5M

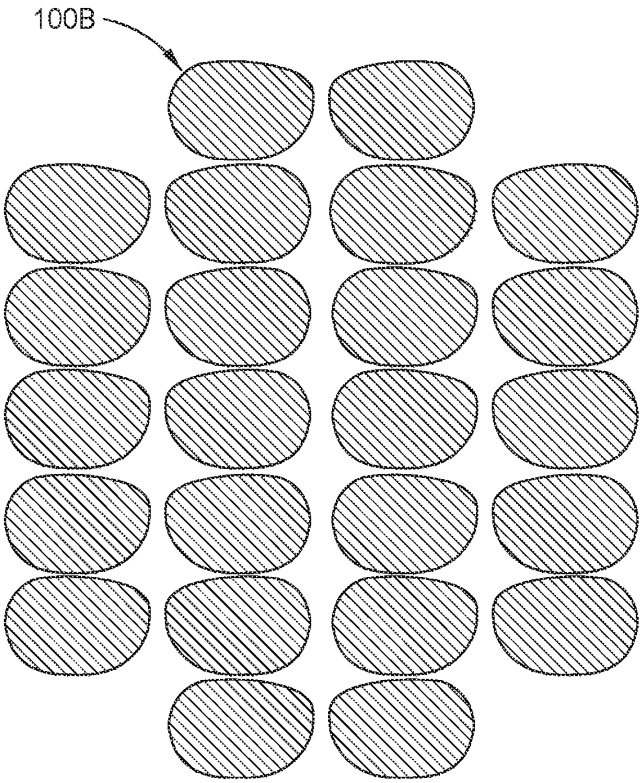


FIG. 5N