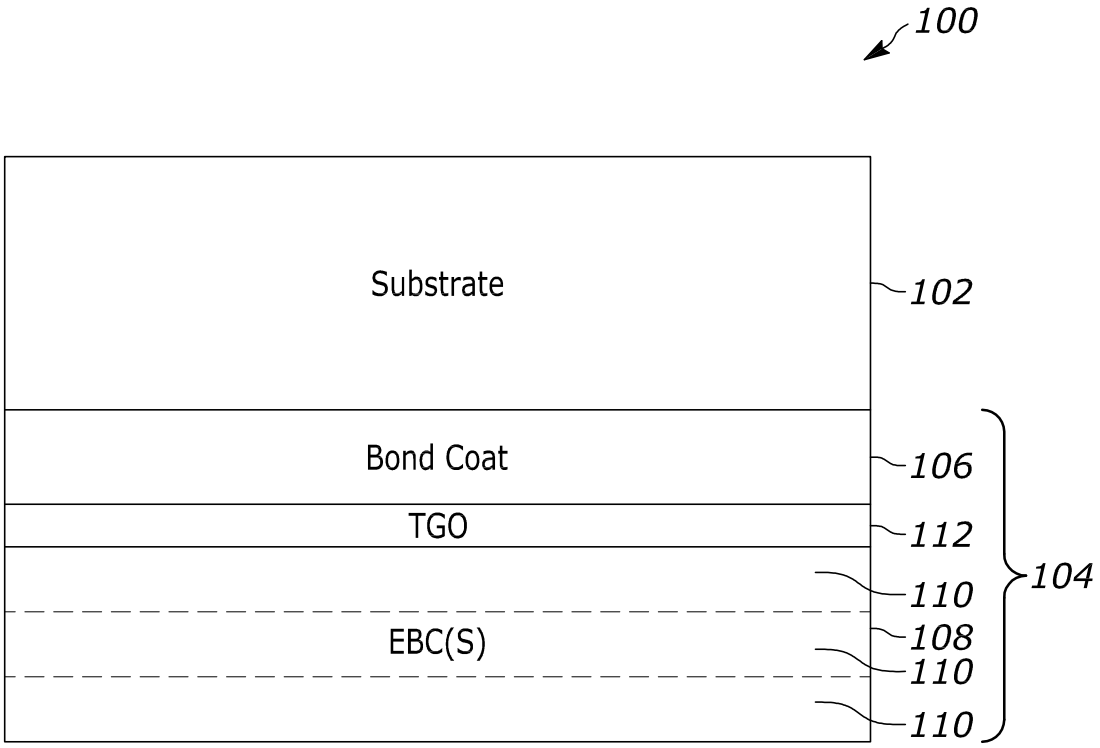

100
Substrate
102
Bond Coat
106
TGO
112
110
EBC(S)
108
110
110
104

FIG. 1

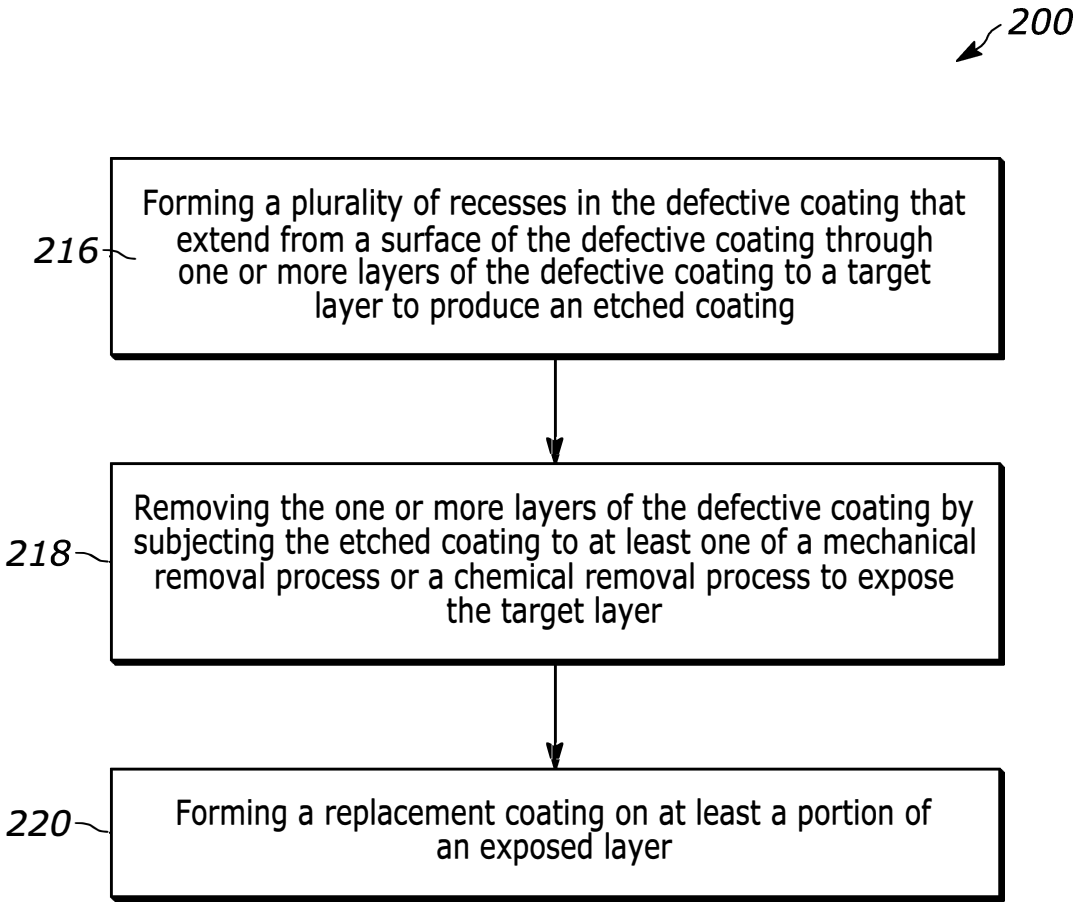

200
216
Forming a plurality of recesses in the defective coating that extend from a surface of the defective coating through one or more layers of the defective coating to a target layer to produce an etched coating
218
Removing the one or more layers of the defective coating by subjecting the etched coating to at least one of a mechanical removal process or a chemical removal process to expose the target layer
220
Forming a replacement coating on at least a portion of an exposed layer

FIG. 2

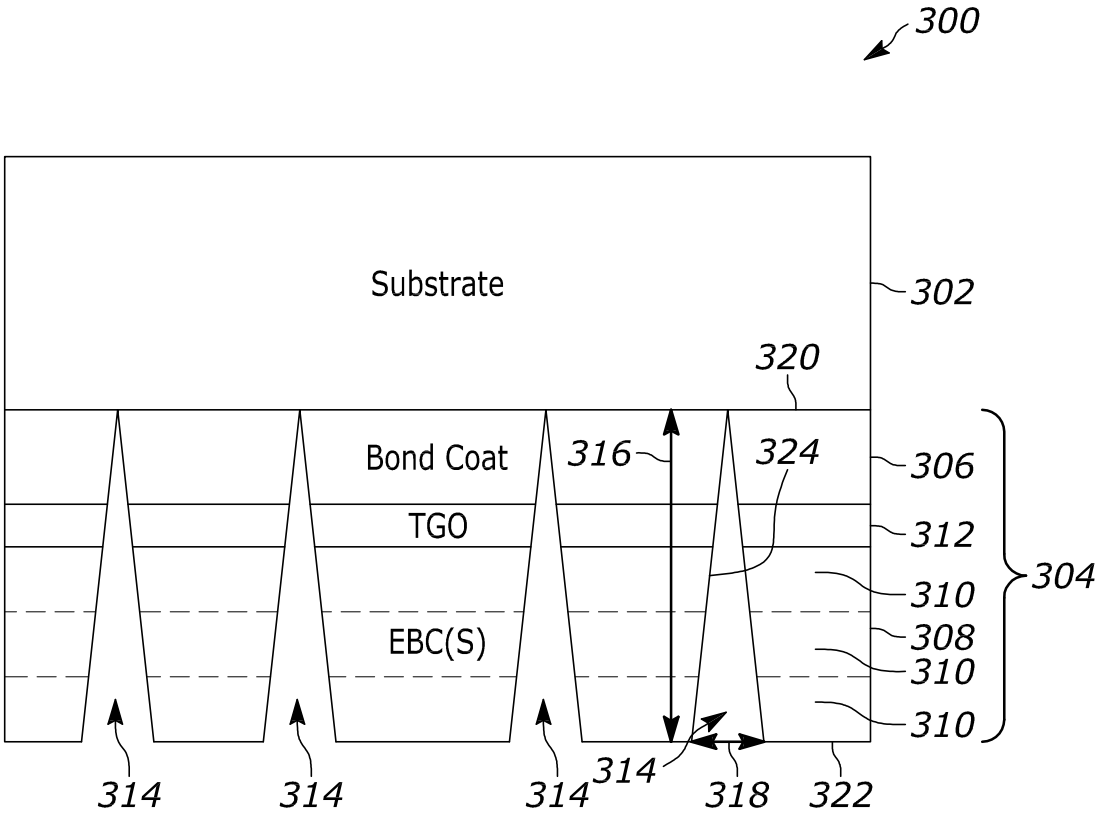

300
Substrate
302
320
Bond Coat
316
324
306
TGO
312
304
310
EBC(S)
308
310
310
314
314
314
314
318
322

FIG. 3

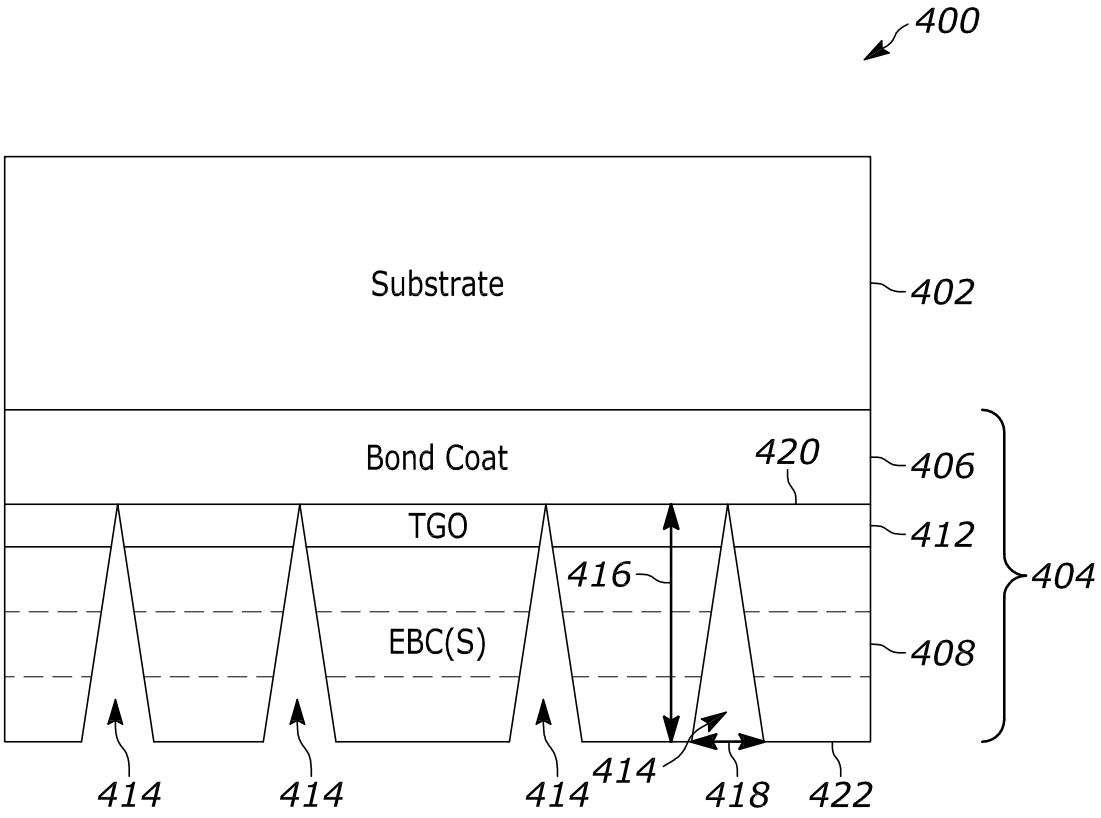

400
Substrate
402
Bond Coat
420
406
TGO
412
416
404
EBC(S)
408
414
414
414
414
418
422

FIG. 4

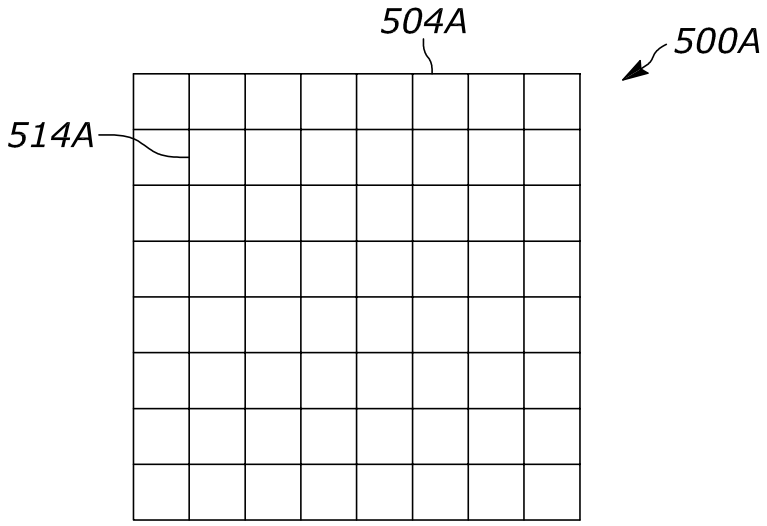


FIG. 5A

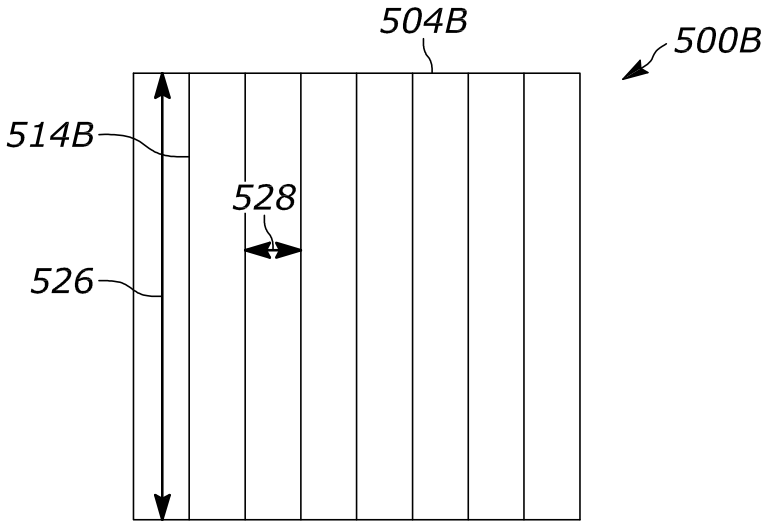


FIG. 5B

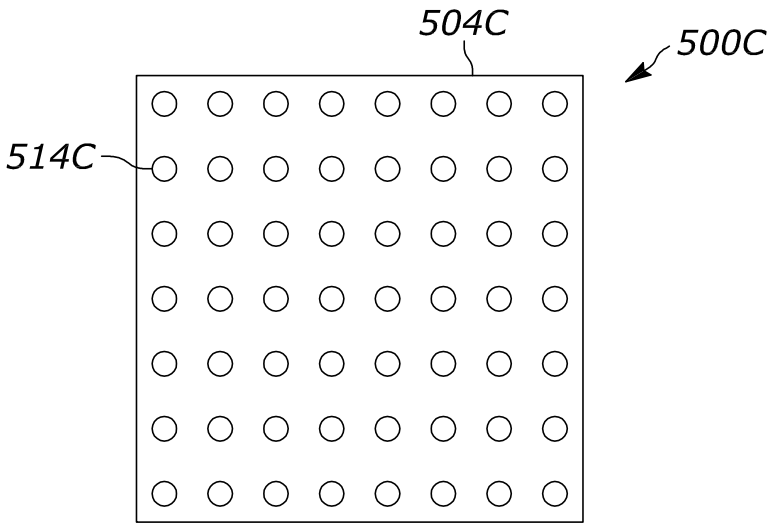


FIG. 5C

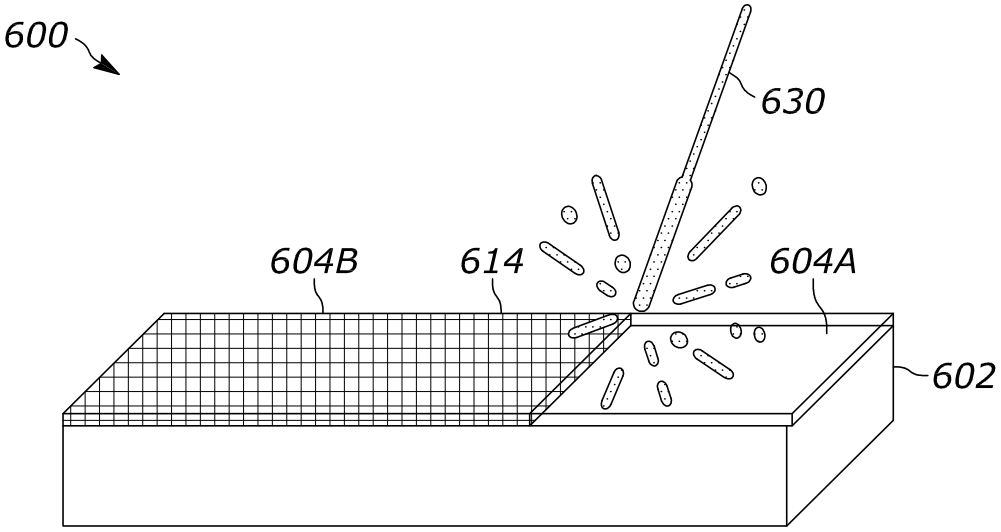


FIG. 6

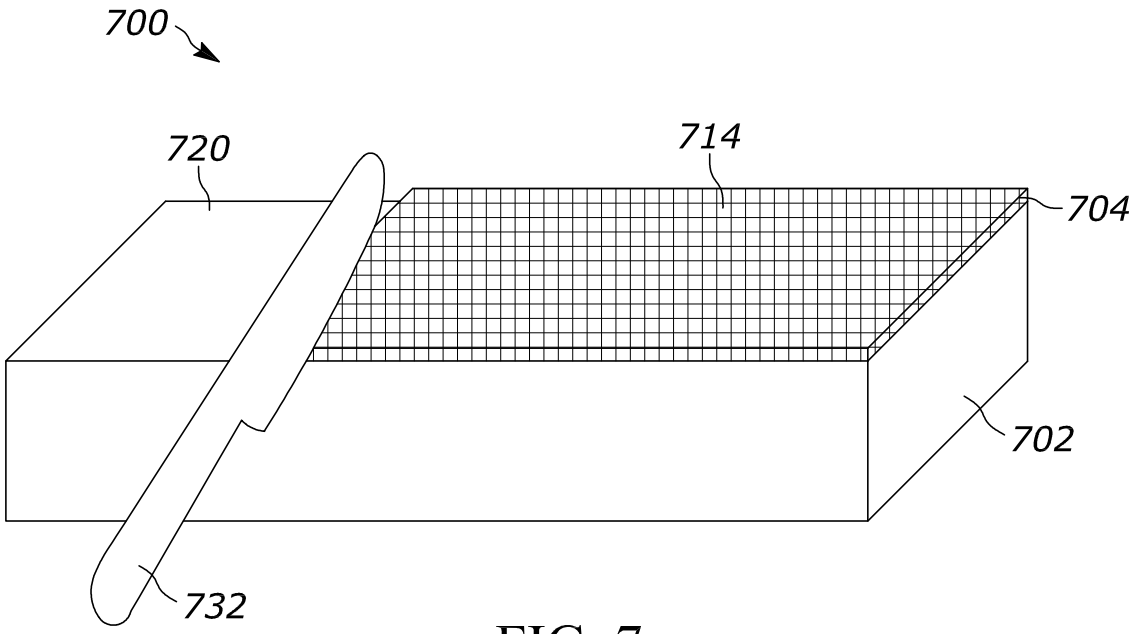


FIG. 7

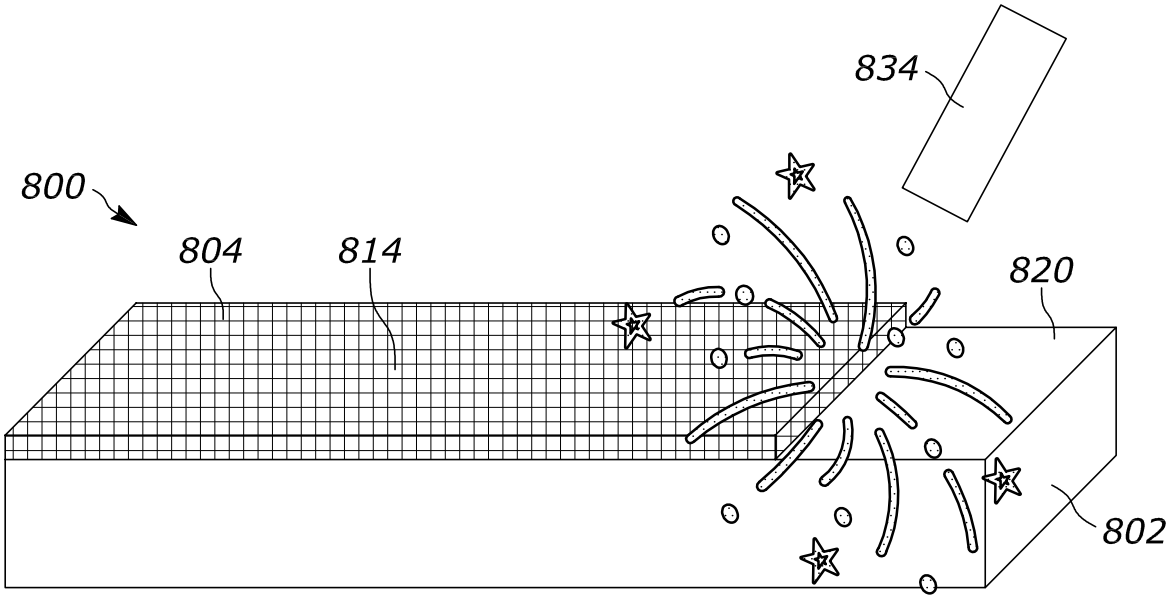


FIG. 8

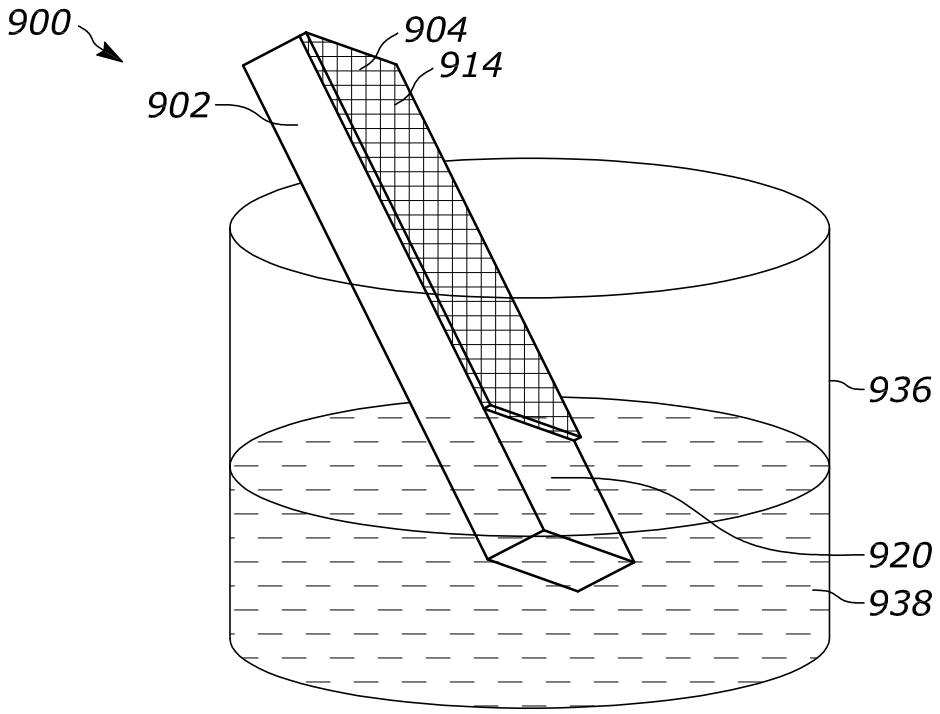


FIG. 9