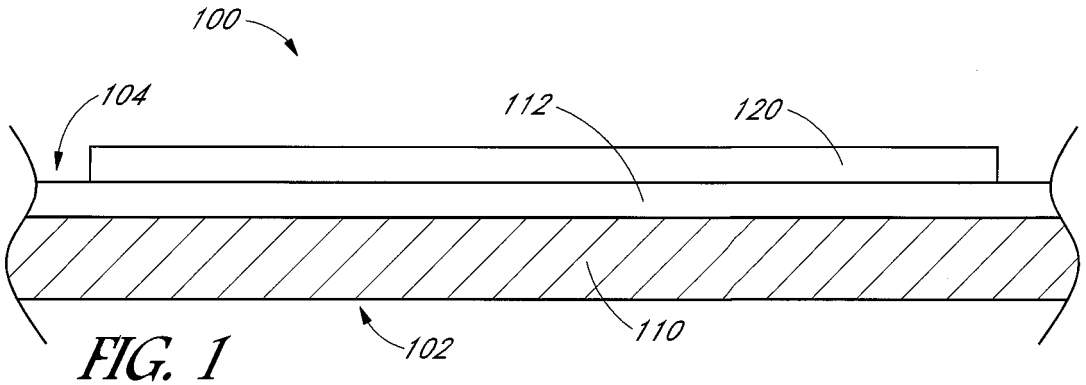


FIG. 1

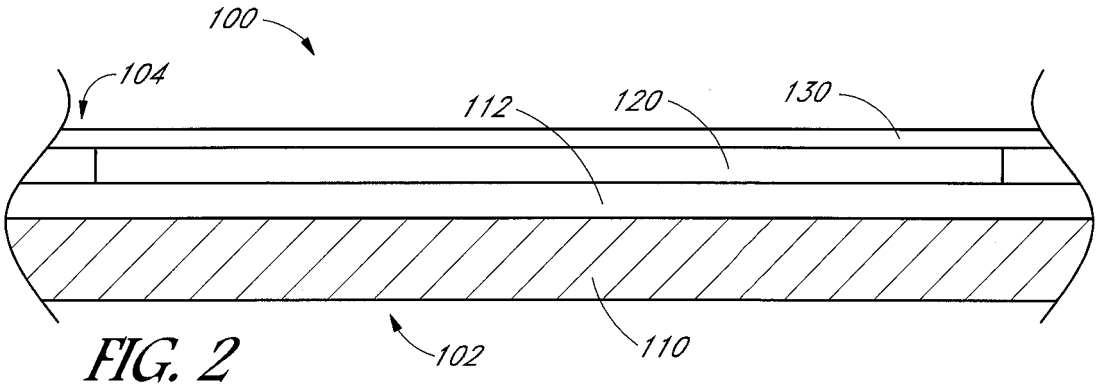


FIG. 2

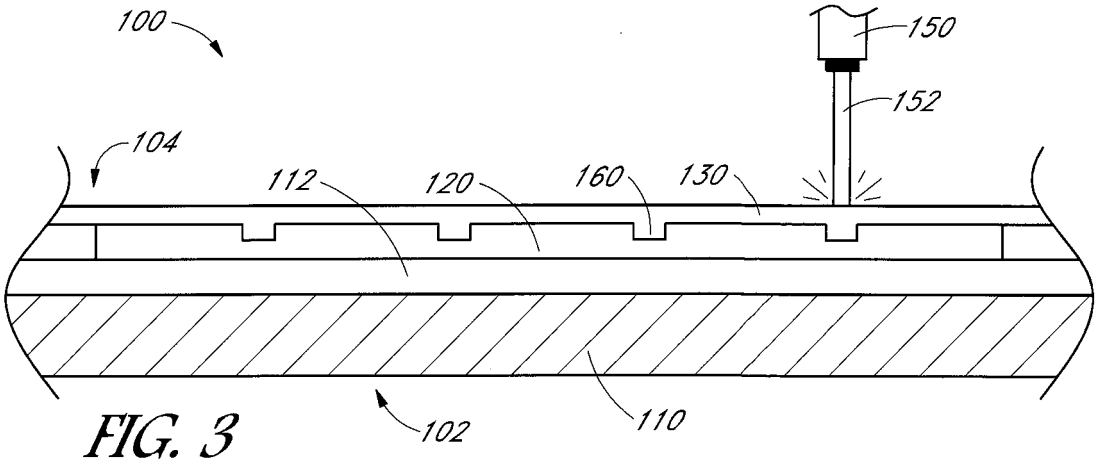


FIG. 3

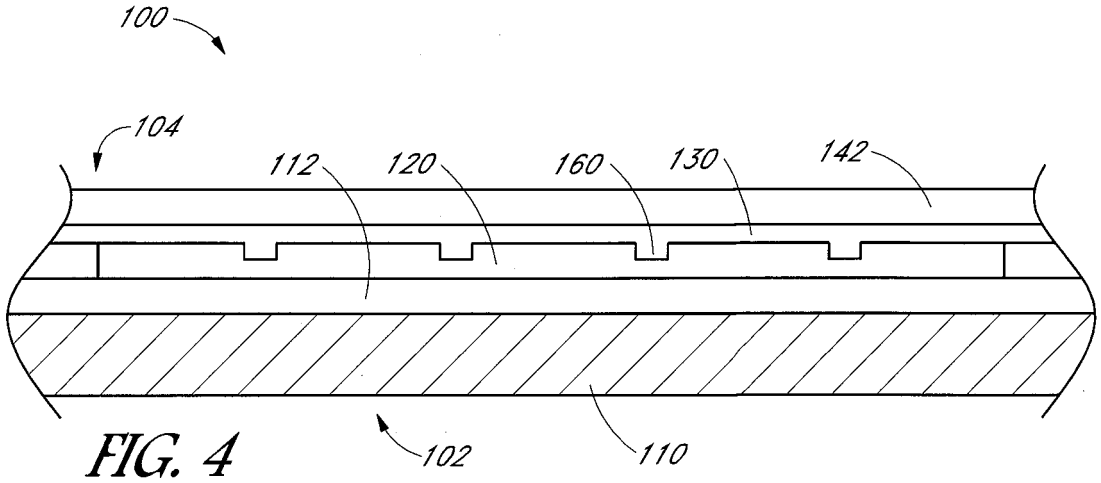

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FIG. 4

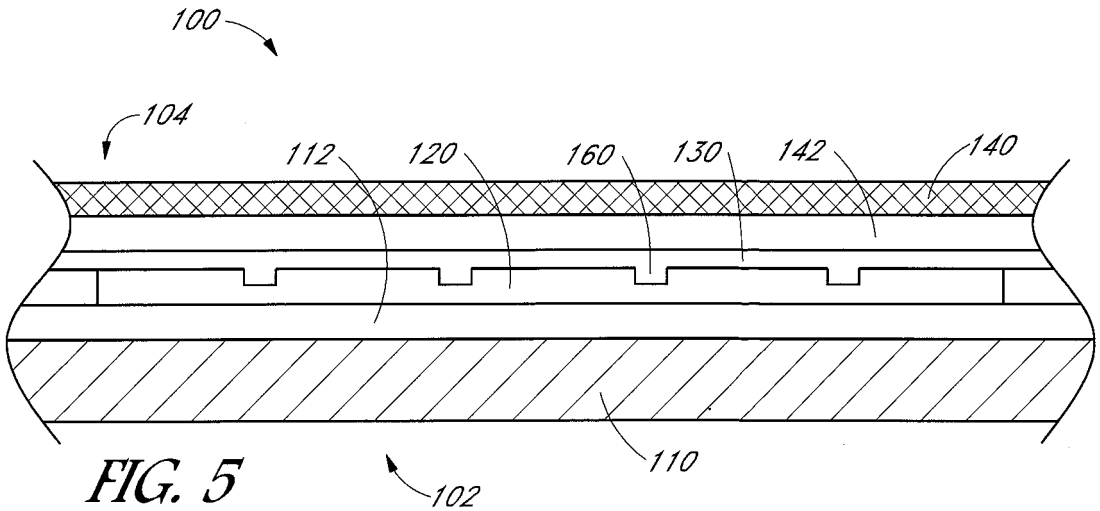

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FIG. 5

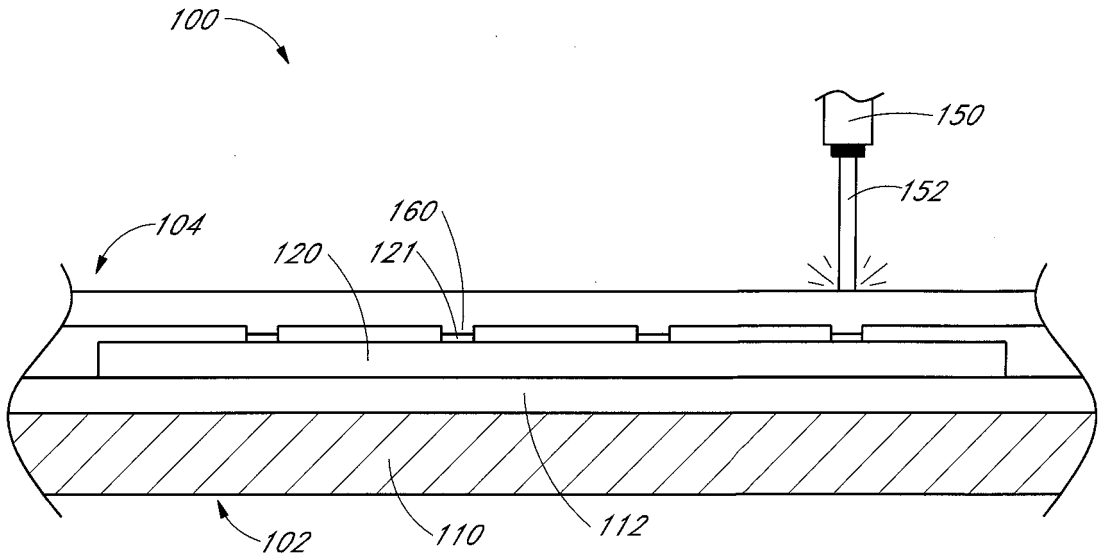

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FIG. 6

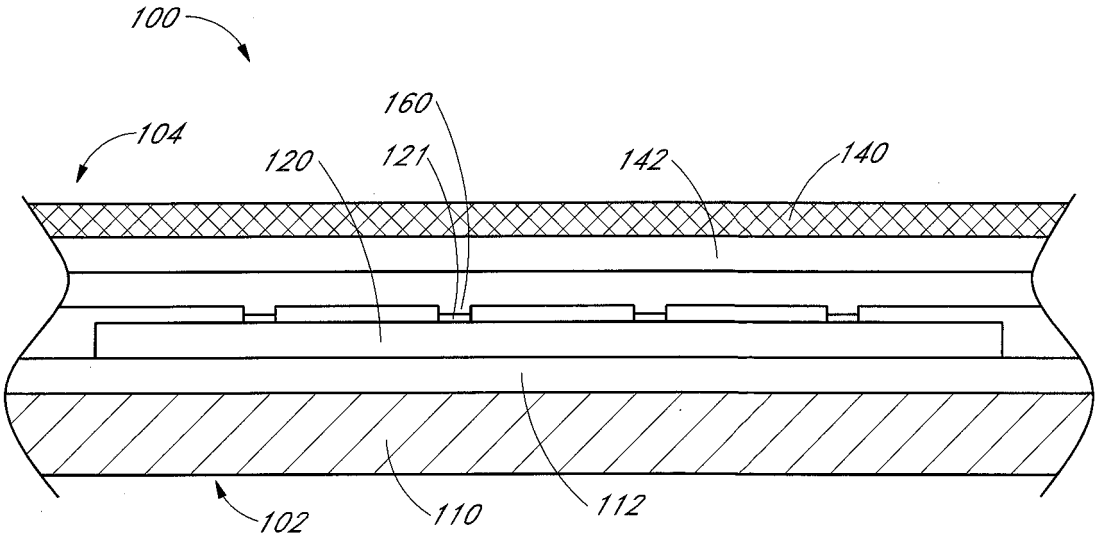

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FIG. 7

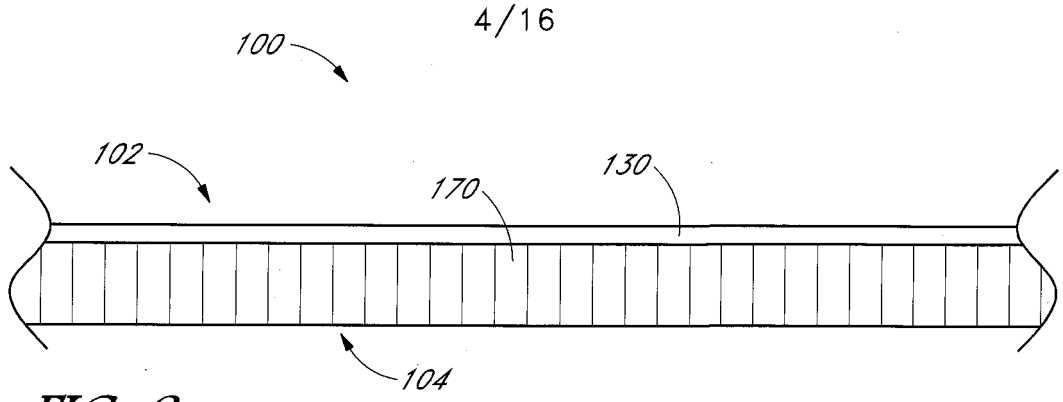


FIG. 8

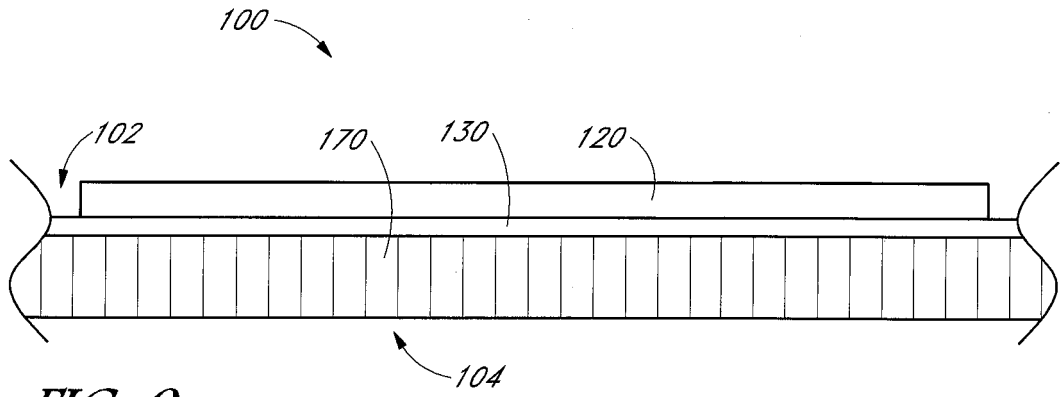


FIG. 9

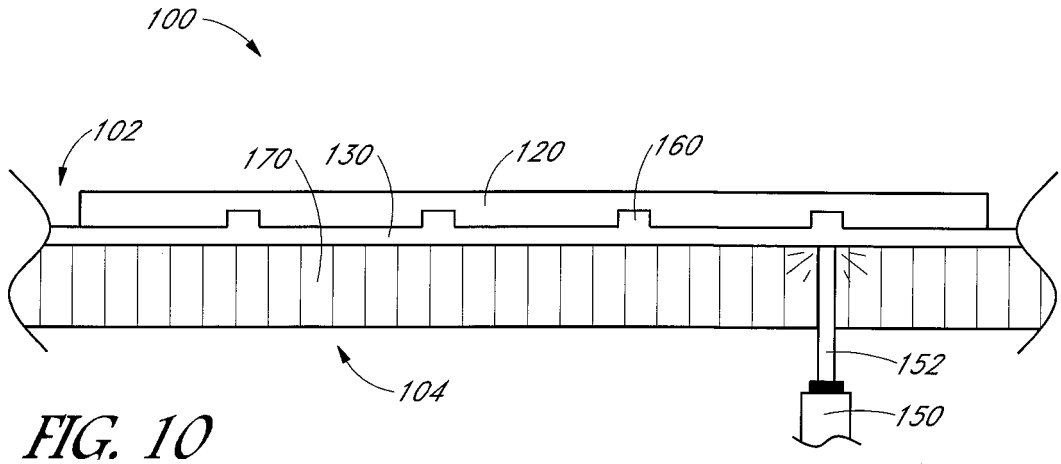


FIG. 10

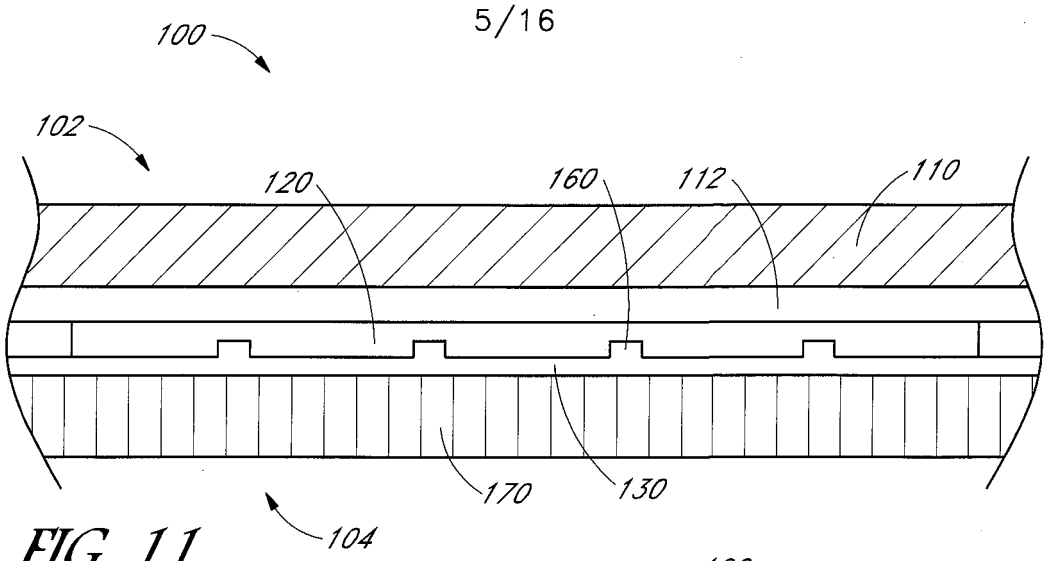


FIG. 11

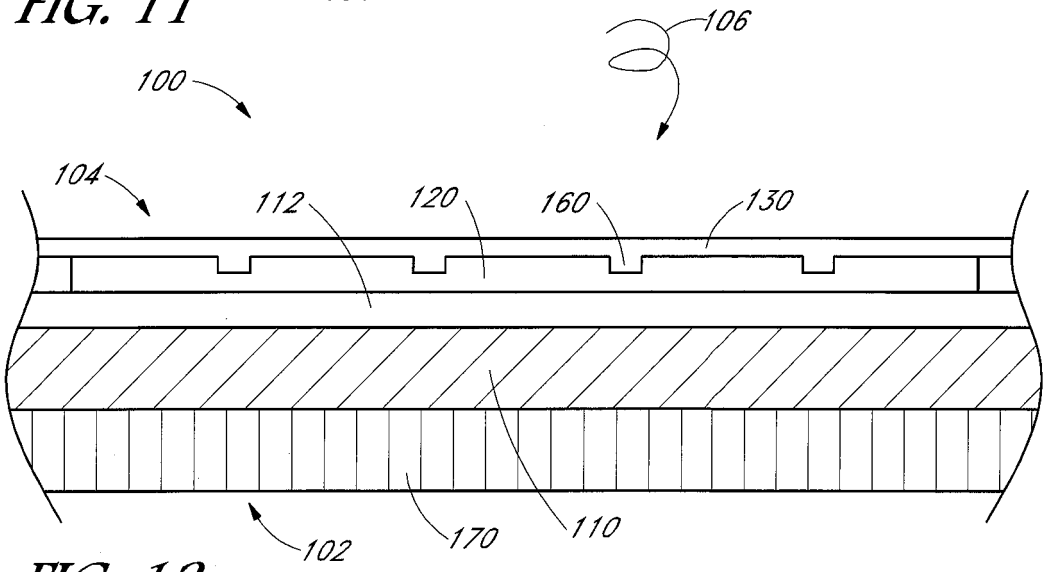


FIG. 12

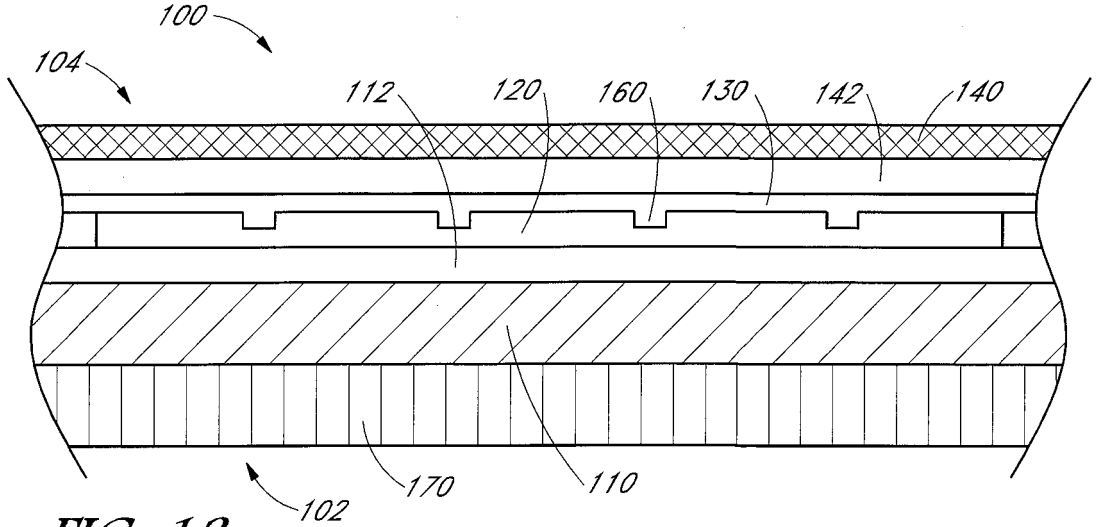


FIG. 13

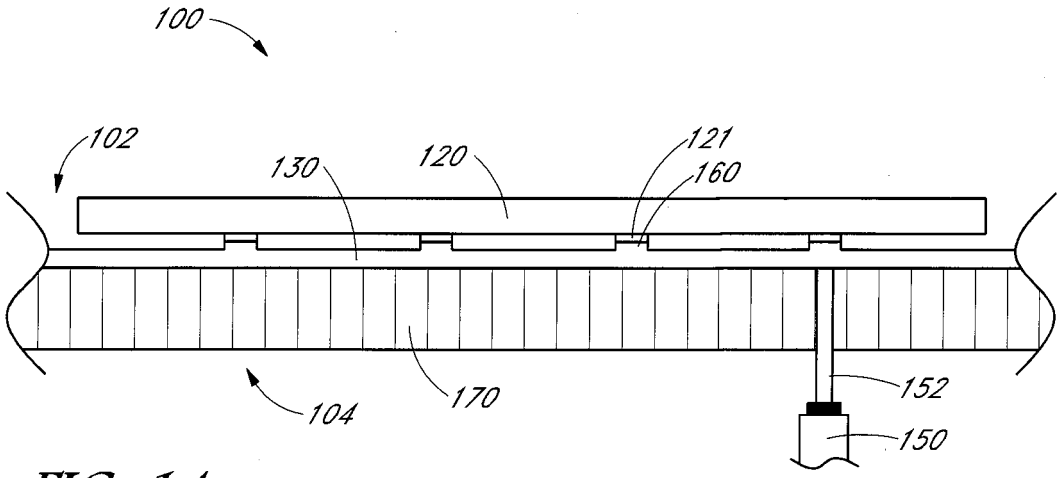

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FIG. 14

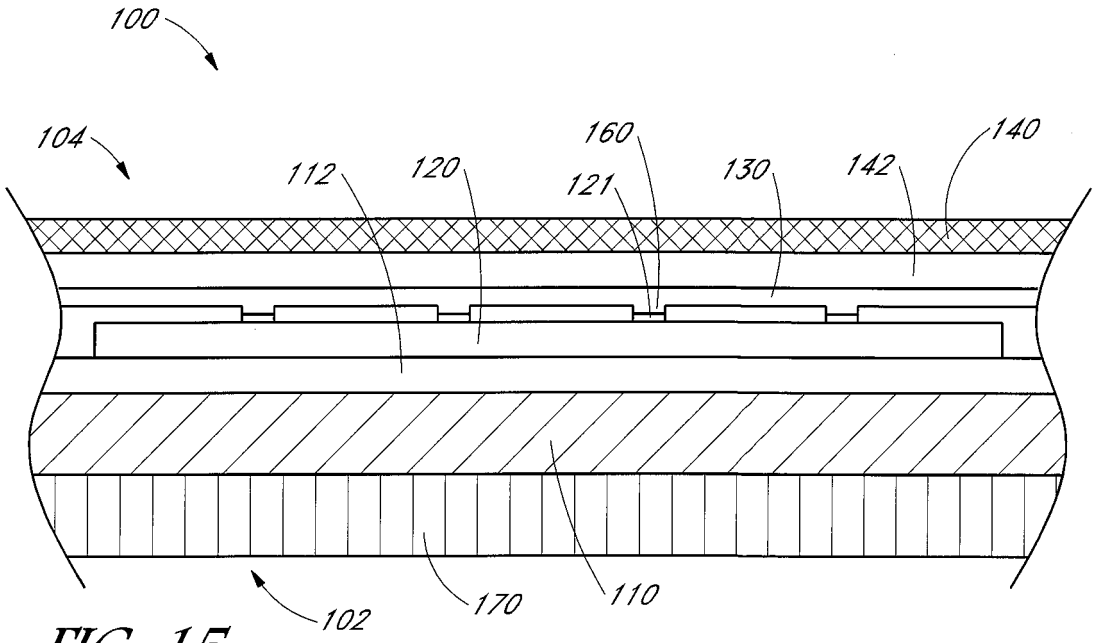

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FIG. 15

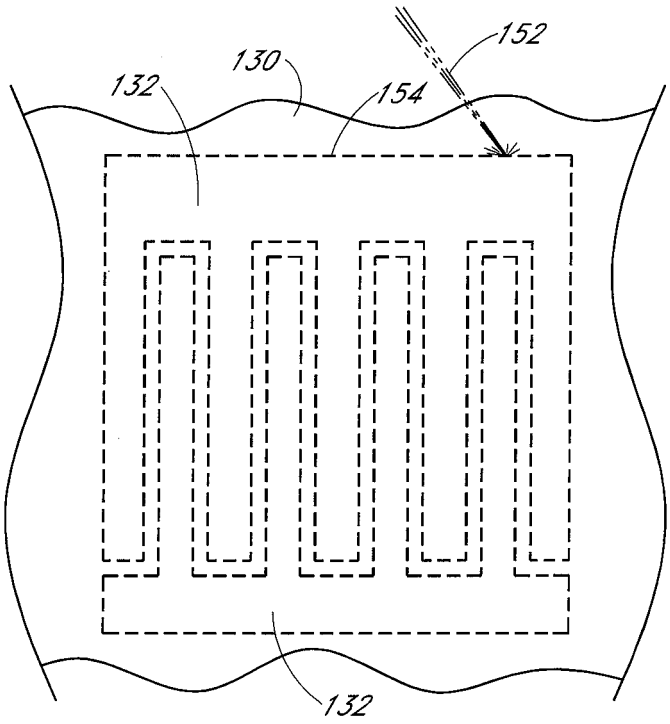


FIG. 16

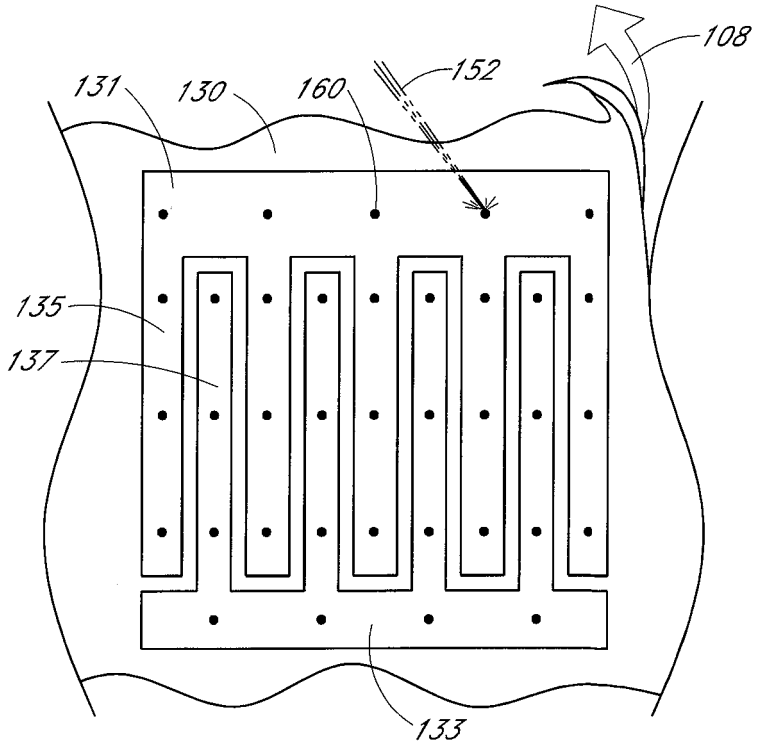


FIG. 17

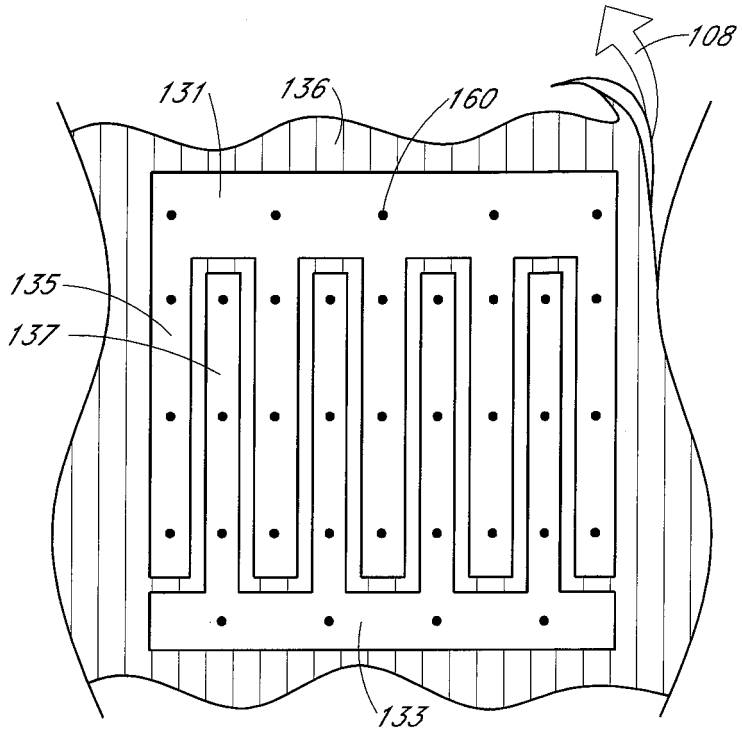


FIG. 18

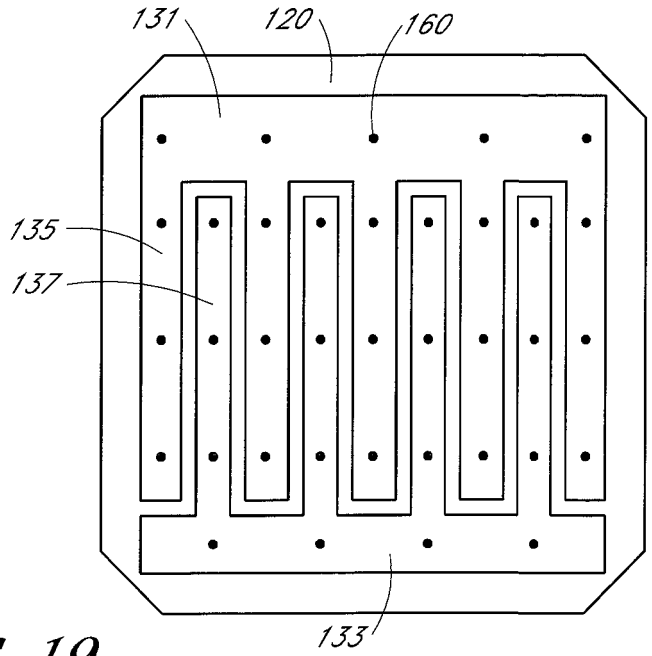


FIG. 19

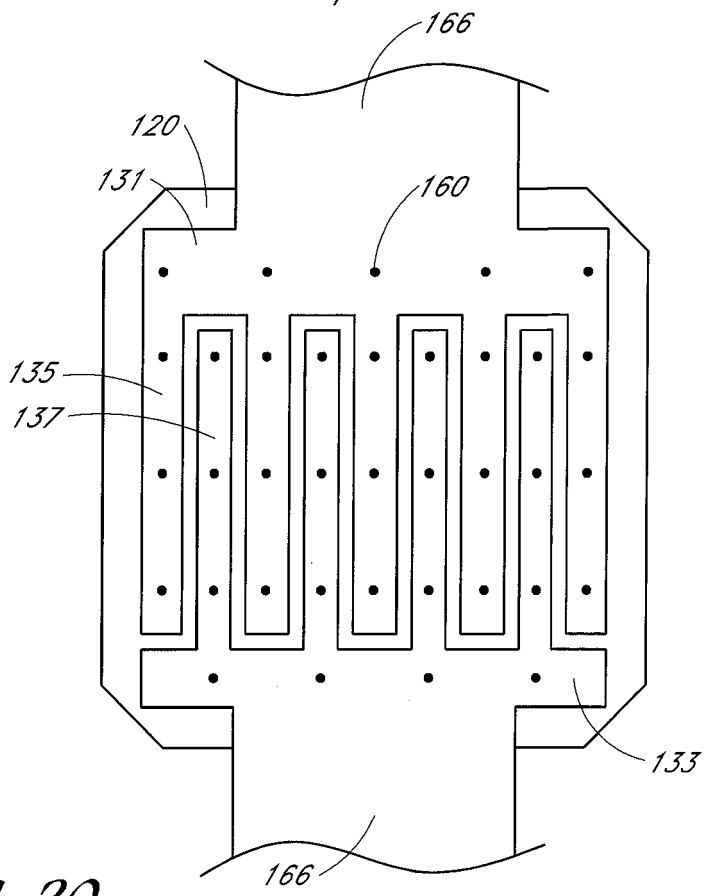


FIG. 20

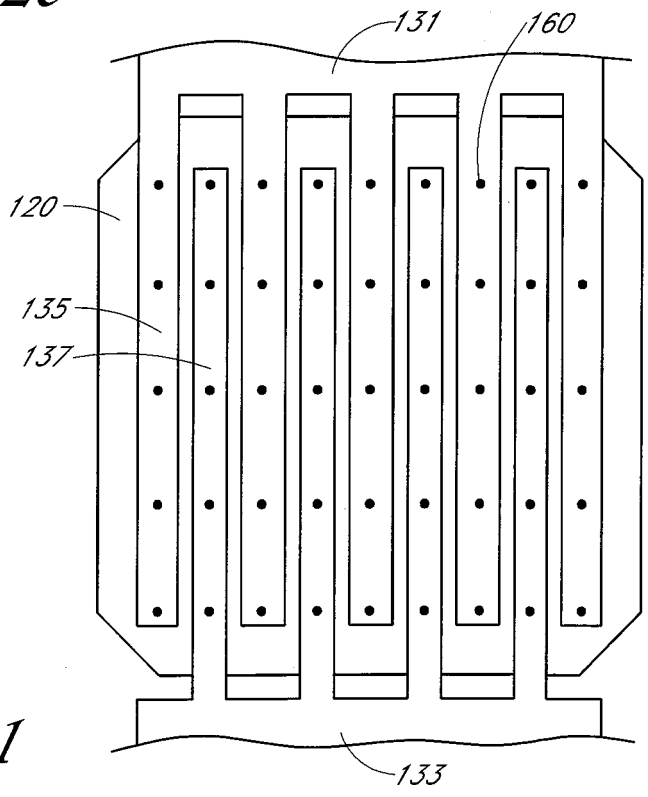


FIG. 21

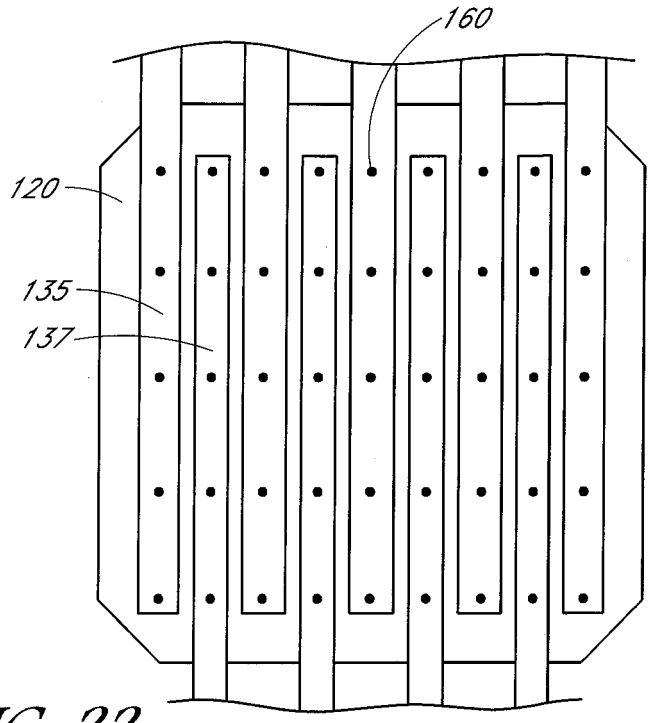

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FIG. 22

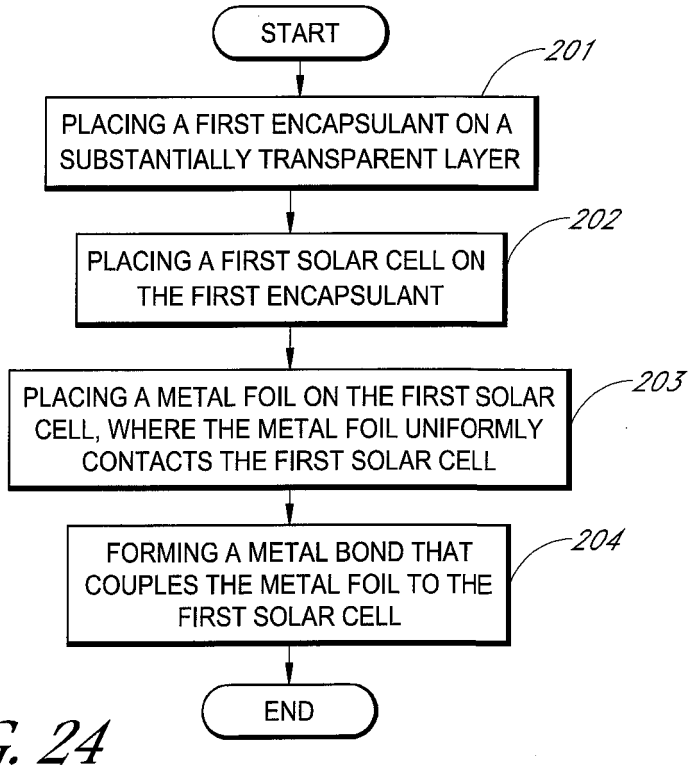

START
201
PLACING A FIRST ENCAPSULANT ON A SUBSTANTIALLY TRANSPARENT LAYER
202
PLACING A FIRST SOLAR CELL ON THE FIRST ENCAPSULANT
203
PLACING A METAL FOIL ON THE FIRST SOLAR CELL, WHERE THE METAL FOIL UNIFORMLY CONTACTS THE FIRST SOLAR CELL
204
FORMING A METAL BOND THAT COUPLES THE METAL FOIL TO THE FIRST SOLAR CELL
END

FIG. 24

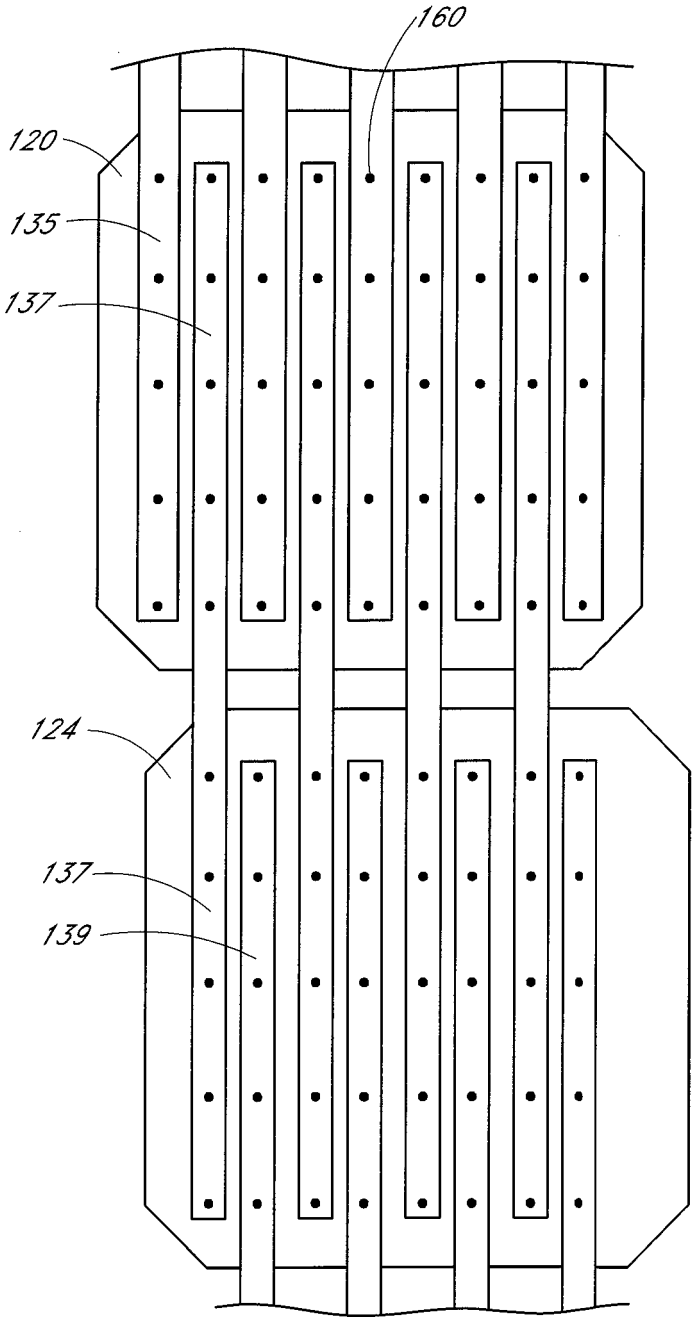


FIG. 23

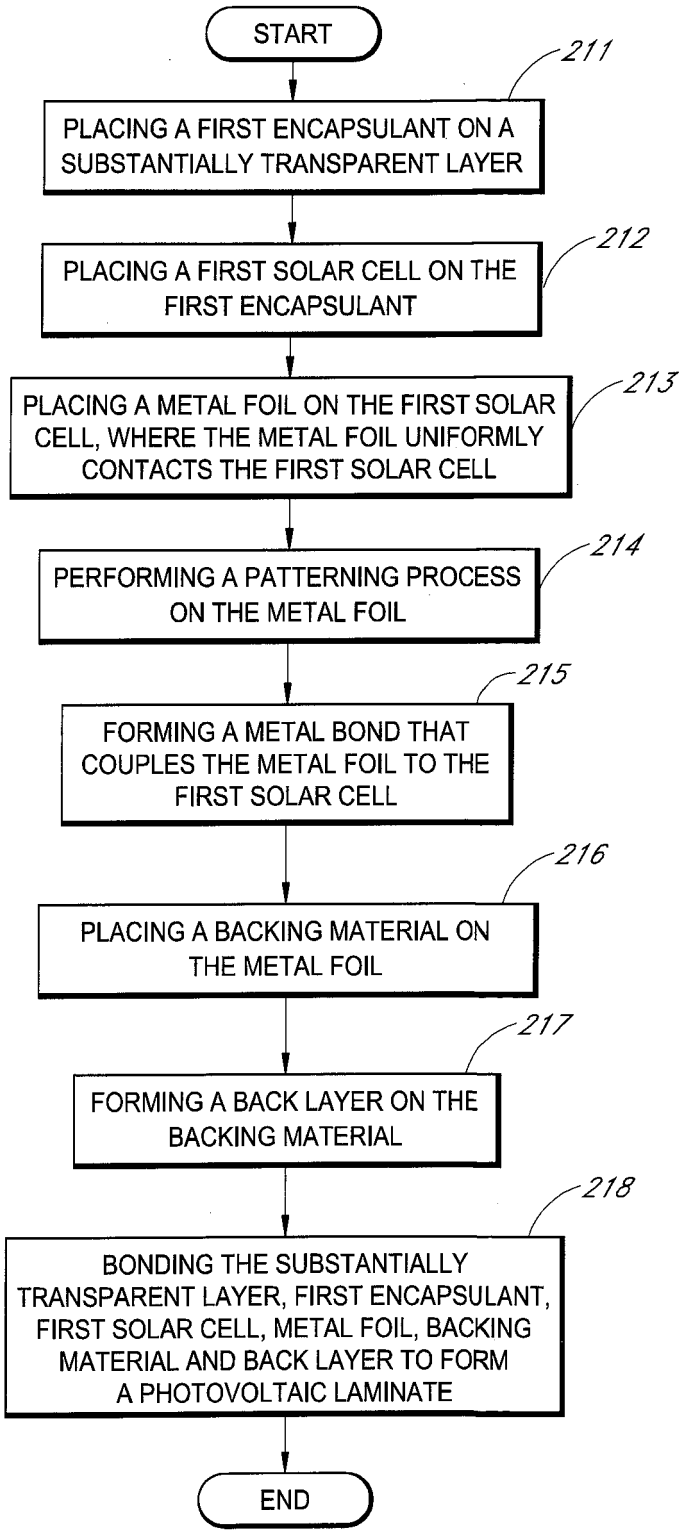

START
211
PLACING A FIRST ENCAPSULANT ON A SUBSTANTIALLY TRANSPARENT LAYER
212
PLACING A FIRST SOLAR CELL ON THE FIRST ENCAPSULANT
213
PLACING A METAL FOIL ON THE FIRST SOLAR CELL, WHERE THE METAL FOIL UNIFORMLY CONTACTS THE FIRST SOLAR CELL
214
PERFORMING A PATTERNING PROCESS ON THE METAL FOIL
215
FORMING A METAL BOND THAT COUPLES THE METAL FOIL TO THE FIRST SOLAR CELL
216
PLACING A BACKING MATERIAL ON THE METAL FOIL
217
FORMING A BACK LAYER ON THE BACKING MATERIAL
218
BONDING THE SUBSTANTIALLY TRANSPARENT LAYER, FIRST ENCAPSULANT, FIRST SOLAR CELL, METAL FOIL, BACKING MATERIAL AND BACK LAYER TO FORM A PHOTOVOLTAIC LAMINATE
END

FIG. 25

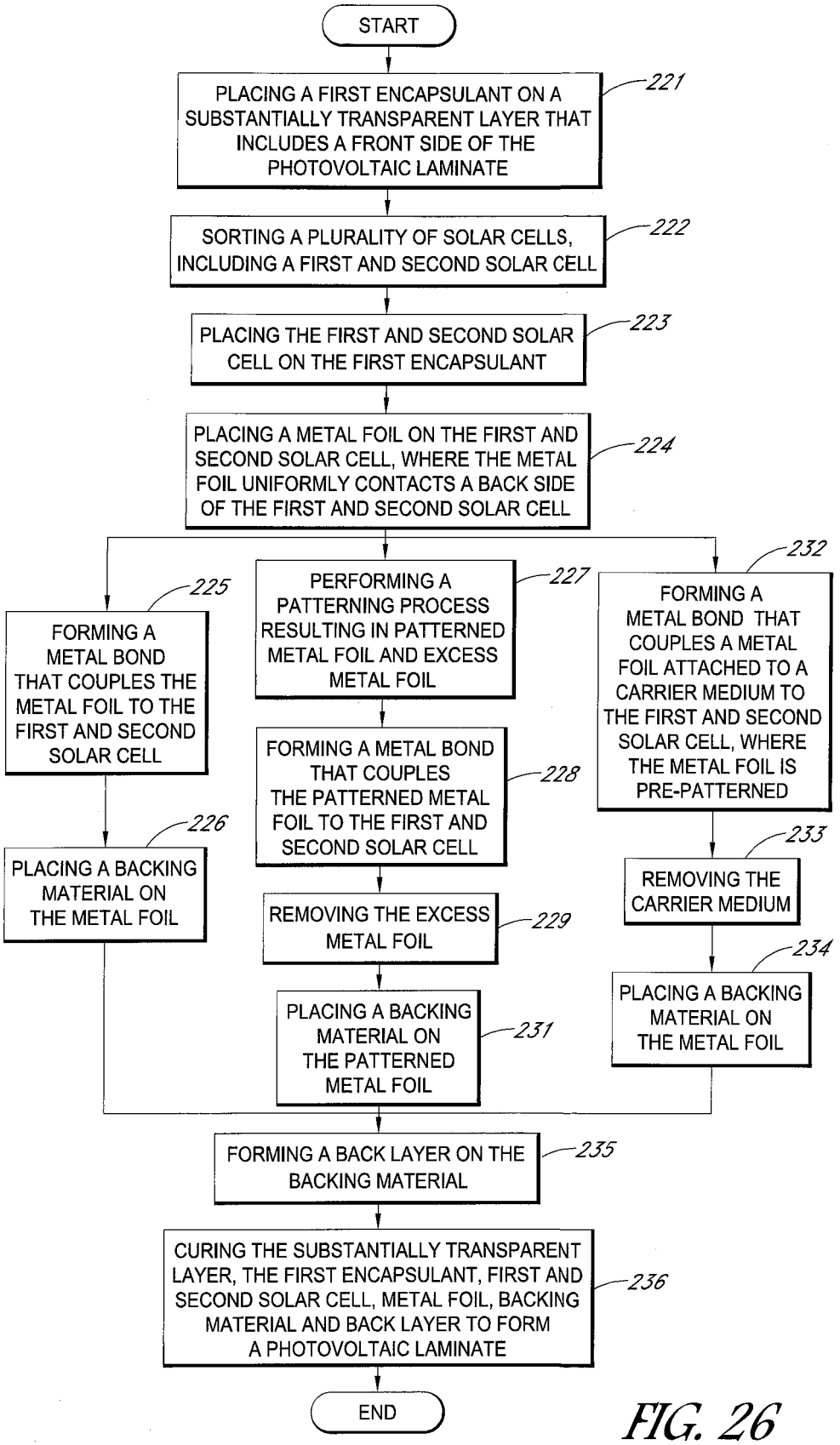

START
PLACING A FIRST ENCAPSULANT ON A SUBSTANTIALLY TRANSPARENT LAYER THAT INCLUDES A FRONT SIDE OF THE PHOTOVOLTAIC LAMINATE
221
SORTING A PLURALITY OF SOLAR CELLS, INCLUDING A FIRST AND SECOND SOLAR CELL
222
PLACING THE FIRST AND SECOND SOLAR CELL ON THE FIRST ENCAPSULANT
223
PLACING A METAL FOIL ON THE FIRST AND SECOND SOLAR CELL, WHERE THE METAL FOIL UNIFORMLY CONTACTS A BACK SIDE OF THE FIRST AND SECOND SOLAR CELL
224
225
FORMING A METAL BOND THAT COUPLES THE METAL FOIL TO THE FIRST AND SECOND SOLAR CELL
226
PLACING A BACKING MATERIAL ON THE METAL FOIL
227
PERFORMING A PATTERNING PROCESS RESULTING IN PATTERNED METAL FOIL AND EXCESS METAL FOIL
228
FORMING A METAL BOND THAT COUPLES THE PATTERNED METAL FOIL TO THE FIRST AND SECOND SOLAR CELL
229
REMOVING THE EXCESS METAL FOIL
231
PLACING A BACKING MATERIAL ON THE PATTERNED METAL FOIL
232
FORMING A METAL BOND THAT COUPLES A METAL FOIL ATTACHED TO A CARRIER MEDIUM TO THE FIRST AND SECOND SOLAR CELL, WHERE THE METAL FOIL IS PRE-PATTERNED
233
REMOVING THE CARRIER MEDIUM
234
PLACING A BACKING MATERIAL ON THE METAL FOIL
235
FORMING A BACK LAYER ON THE BACKING MATERIAL
236
CURING THE SUBSTANTIALLY TRANSPARENT LAYER, THE FIRST ENCAPSULANT, FIRST AND SECOND SOLAR CELL, METAL FOIL, BACKING MATERIAL AND BACK LAYER TO FORM A PHOTOVOLTAIC LAMINATE
END

FIG. 26

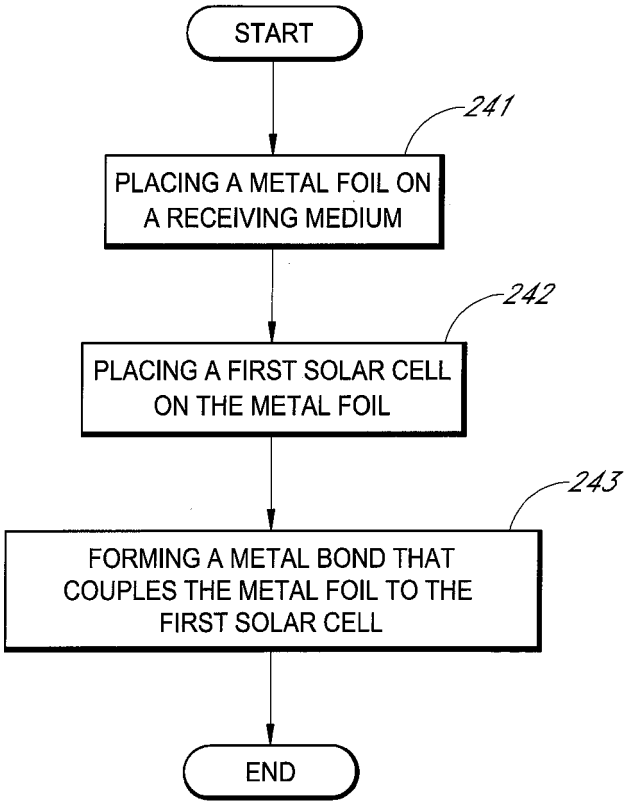

START
241
PLACING A METAL FOIL ON A RECEIVING MEDIUM
242
PLACING A FIRST SOLAR CELL ON THE METAL FOIL
243
FORMING A METAL BOND THAT COUPLES THE METAL FOIL TO THE FIRST SOLAR CELL
END

FIG. 27

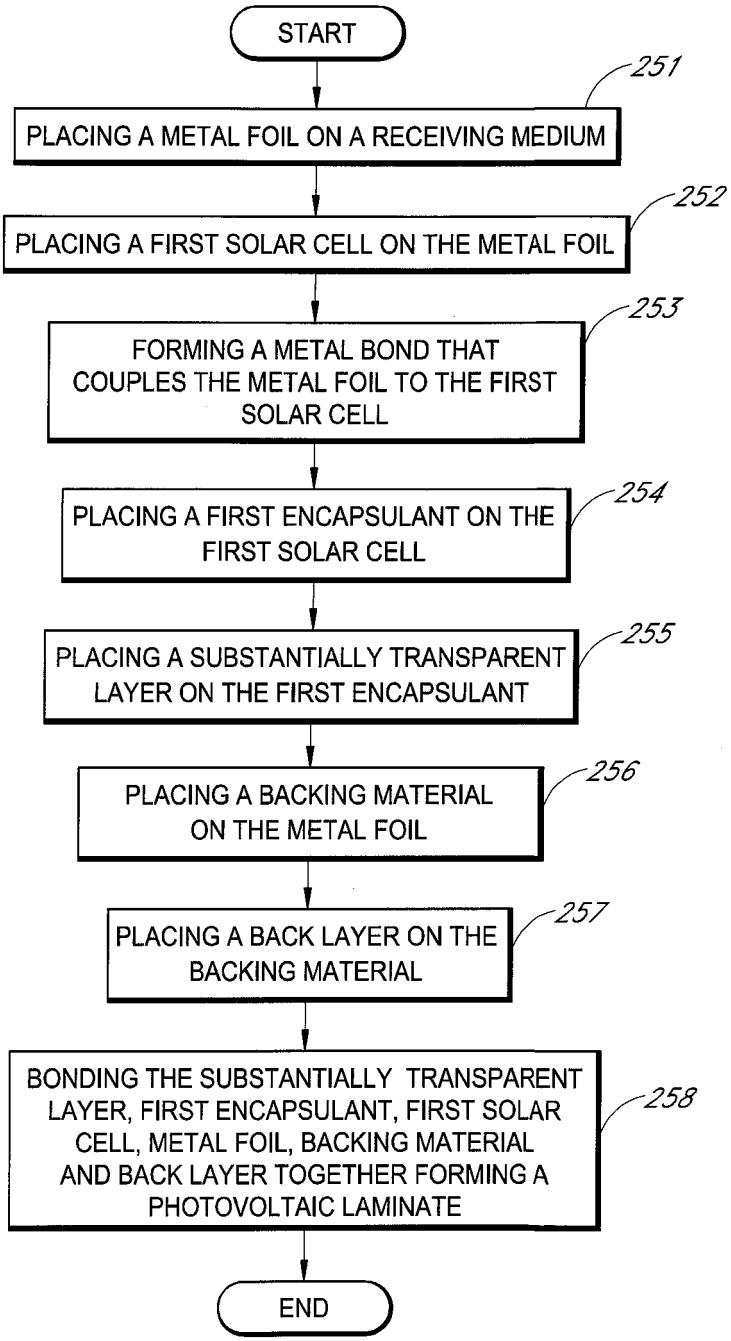

START
251
PLACING A METAL FOIL ON A RECEIVING MEDIUM
252
PLACING A FIRST SOLAR CELL ON THE METAL FOIL
253
FORMING A METAL BOND THAT COUPLES THE METAL FOIL TO THE FIRST SOLAR CELL
254
PLACING A FIRST ENCAPSULANT ON THE FIRST SOLAR CELL
255
PLACING A SUBSTANTIALLY TRANSPARENT LAYER ON THE FIRST ENCAPSULANT
256
PLACING A BACKING MATERIAL ON THE METAL FOIL
257
PLACING A BACK LAYER ON THE BACKING MATERIAL
258
BONDING THE SUBSTANTIALLY TRANSPARENT LAYER, FIRST ENCAPSULANT, FIRST SOLAR CELL, METAL FOIL, BACKING MATERIAL AND BACK LAYER TOGETHER FORMING A PHOTOVOLTAIC LAMINATE
END

FIG. 28

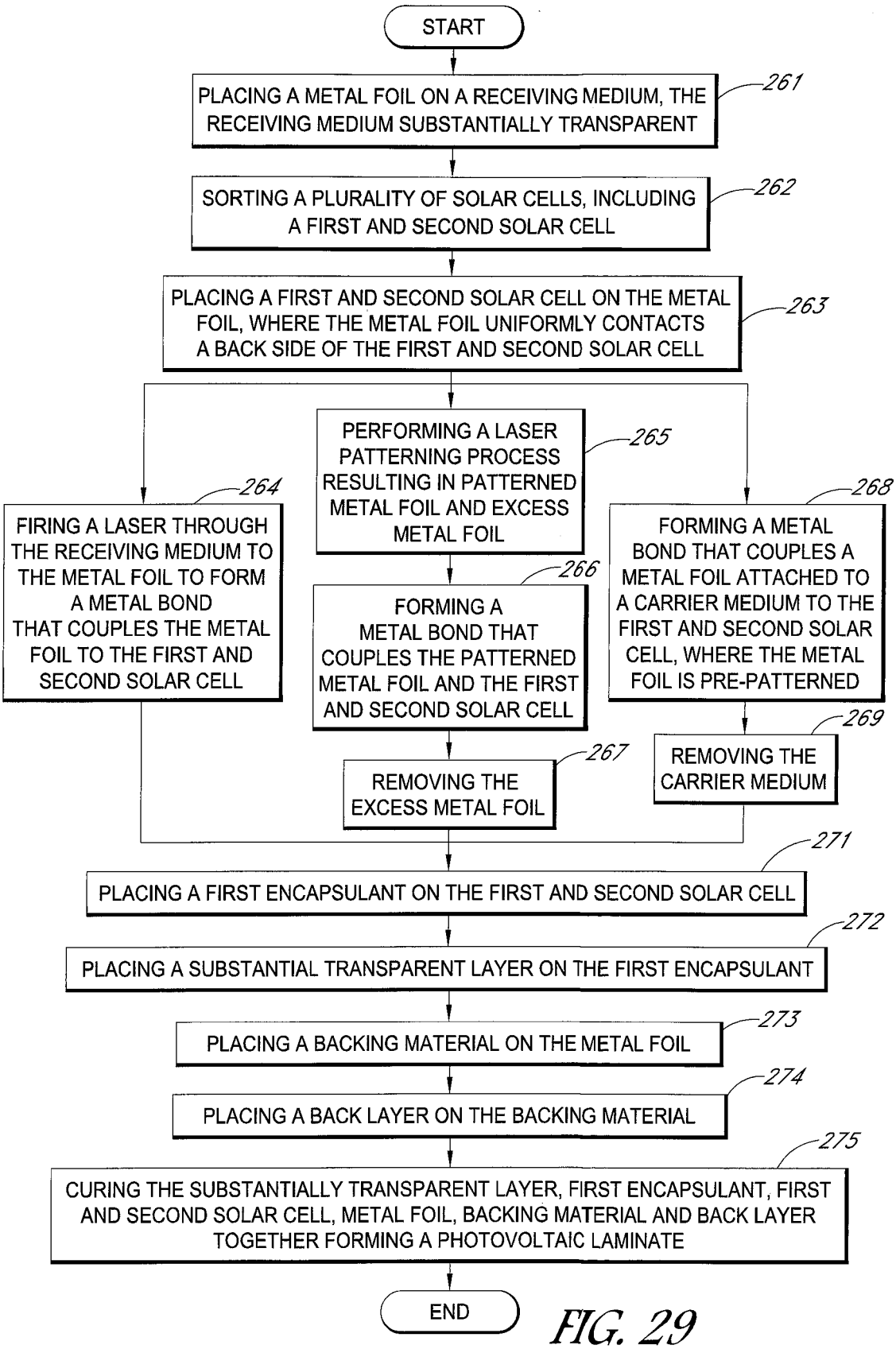

START
PLACING A METAL FOIL ON A RECEIVING MEDIUM, THE RECEIVING MEDIUM SUBSTANTIALLY TRANSPARENT
261
SORTING A PLURALITY OF SOLAR CELLS, INCLUDING A FIRST AND SECOND SOLAR CELL
262
PLACING A FIRST AND SECOND SOLAR CELL ON THE METAL FOIL, WHERE THE METAL FOIL UNIFORMLY CONTACTS A BACK SIDE OF THE FIRST AND SECOND SOLAR CELL
263
PERFORMING A LASER PATTERNING PROCESS RESULTING IN PATTERNED METAL FOIL AND EXCESS METAL FOIL
265
FIRING A LASER THROUGH THE RECEIVING MEDIUM TO THE METAL FOIL TO FORM A METAL BOND THAT COUPLES THE METAL FOIL TO THE FIRST AND SECOND SOLAR CELL
264
FORMING A METAL BOND THAT COUPLES THE PATTERNED METAL FOIL AND THE FIRST AND SECOND SOLAR CELL
266
FORMING A METAL BOND THAT COUPLES A METAL FOIL ATTACHED TO A CARRIER MEDIUM TO THE FIRST AND SECOND SOLAR CELL, WHERE THE METAL FOIL IS PRE-PATTERNED
268
REMOVING THE EXCESS METAL FOIL
267
REMOVING THE CARRIER MEDIUM
269
PLACING A FIRST ENCAPSULANT ON THE FIRST AND SECOND SOLAR CELL
271
PLACING A SUBSTANTIAL TRANSPARENT LAYER ON THE FIRST ENCAPSULANT
272
PLACING A BACKING MATERIAL ON THE METAL FOIL
273
PLACING A BACK LAYER ON THE BACKING MATERIAL
274
CURING THE SUBSTANTIALLY TRANSPARENT LAYER, FIRST ENCAPSULANT, FIRST AND SECOND SOLAR CELL, METAL FOIL, BACKING MATERIAL AND BACK LAYER TOGETHER FORMING A PHOTOVOLTAIC LAMINATE
275
END

FIG. 29