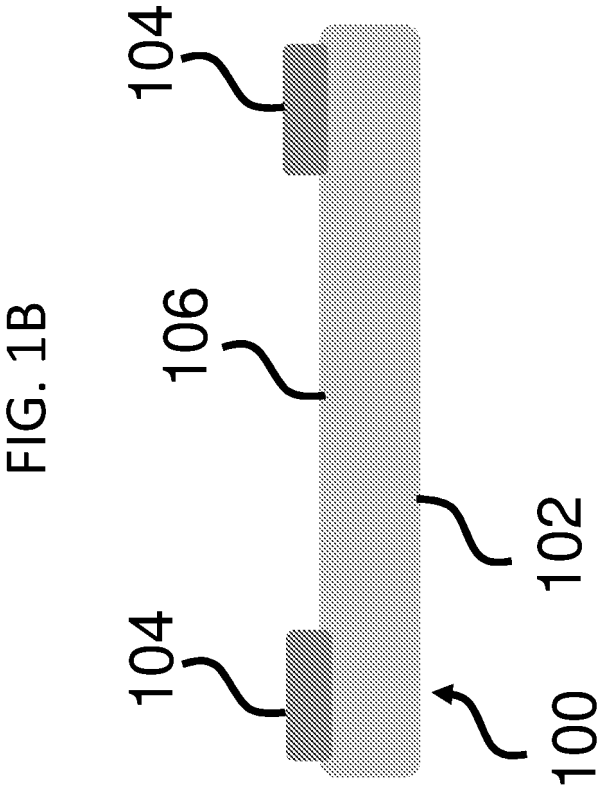


FIG. 1B

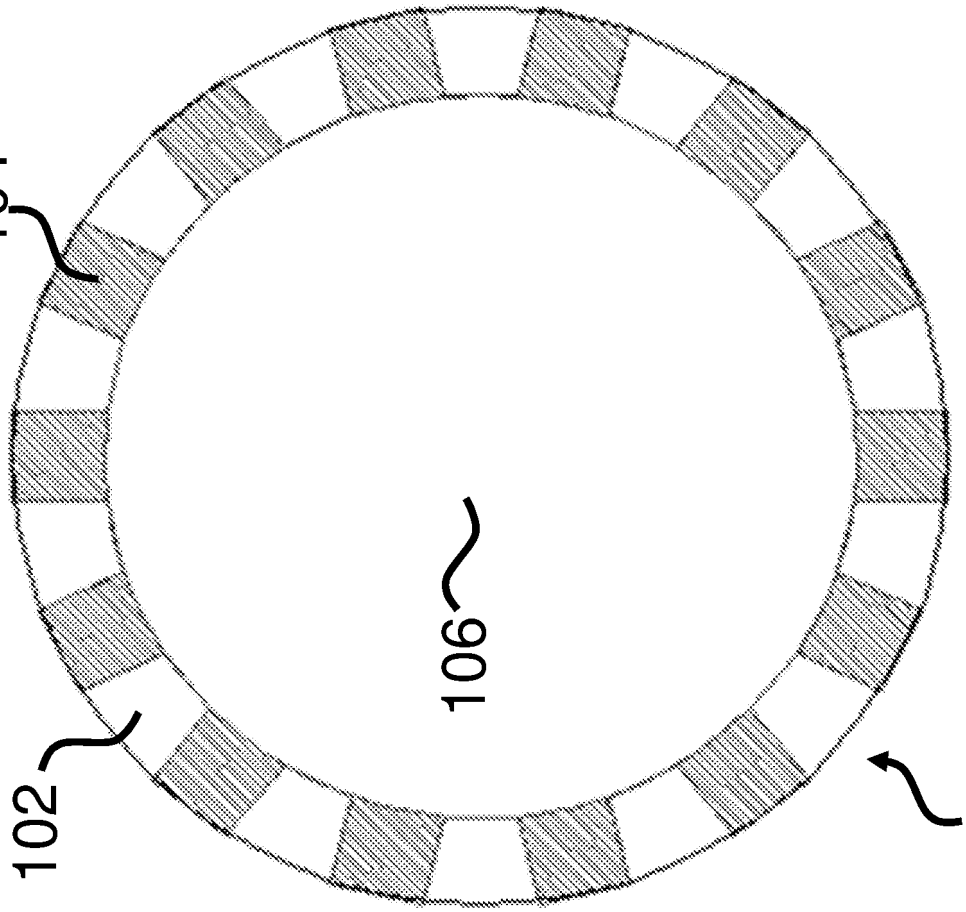


FIG. 1A

FIGS. 1A & 1B

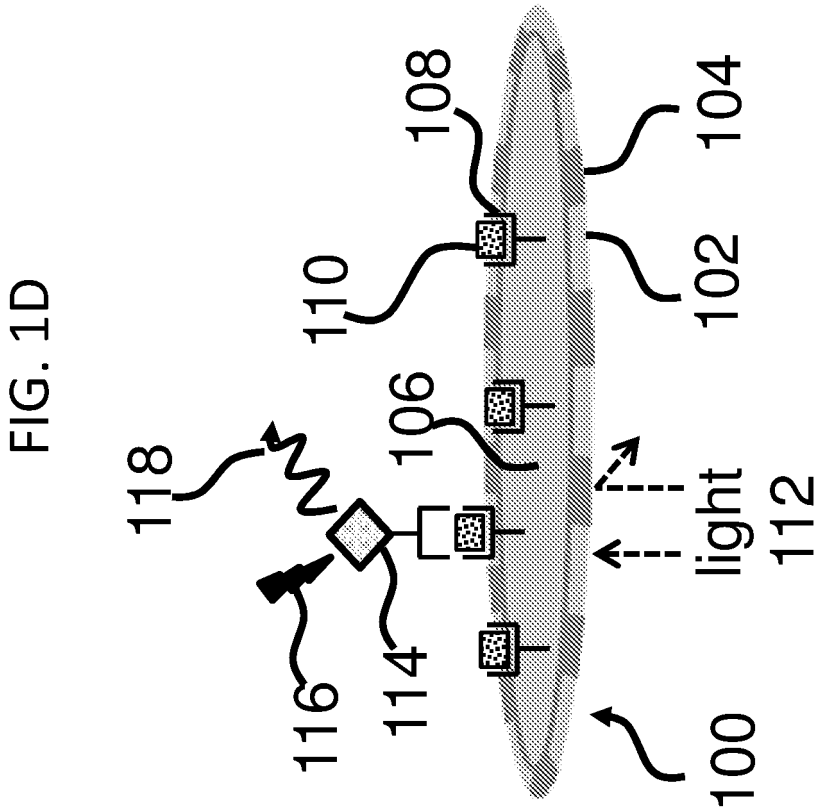


FIG. 1D

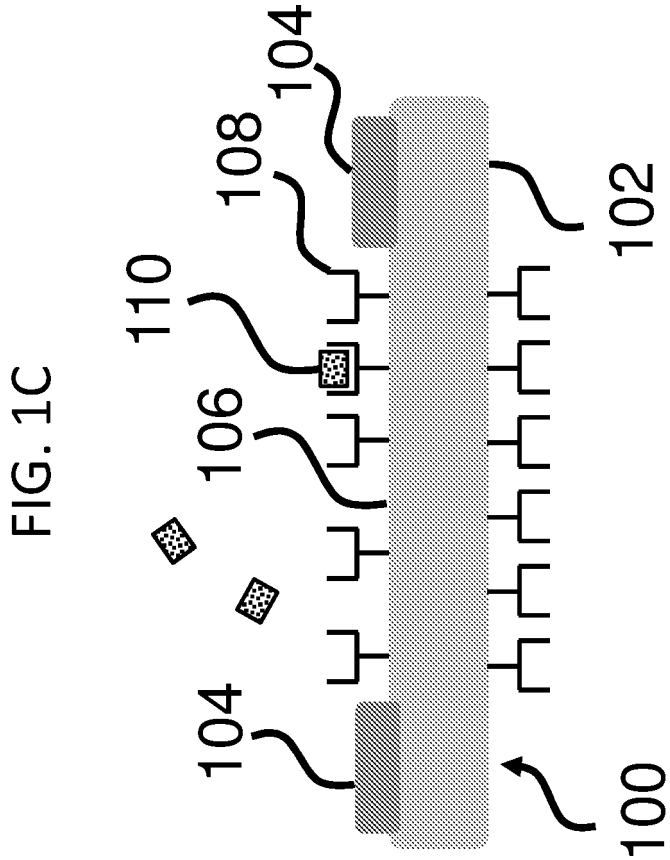


FIG. 1C

FIGS. 1C & 1D

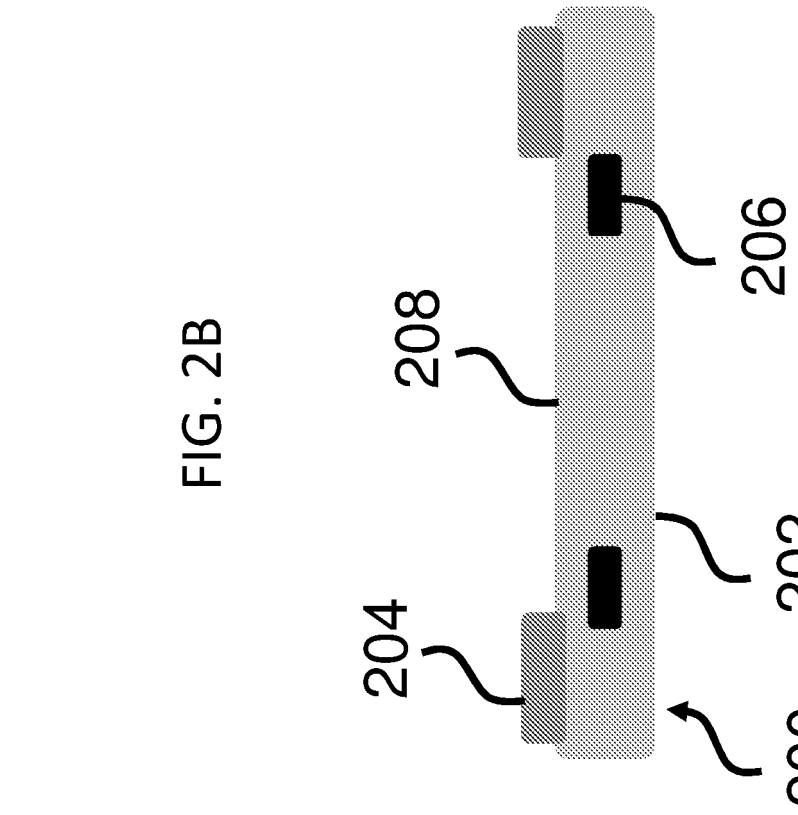


FIG. 2B

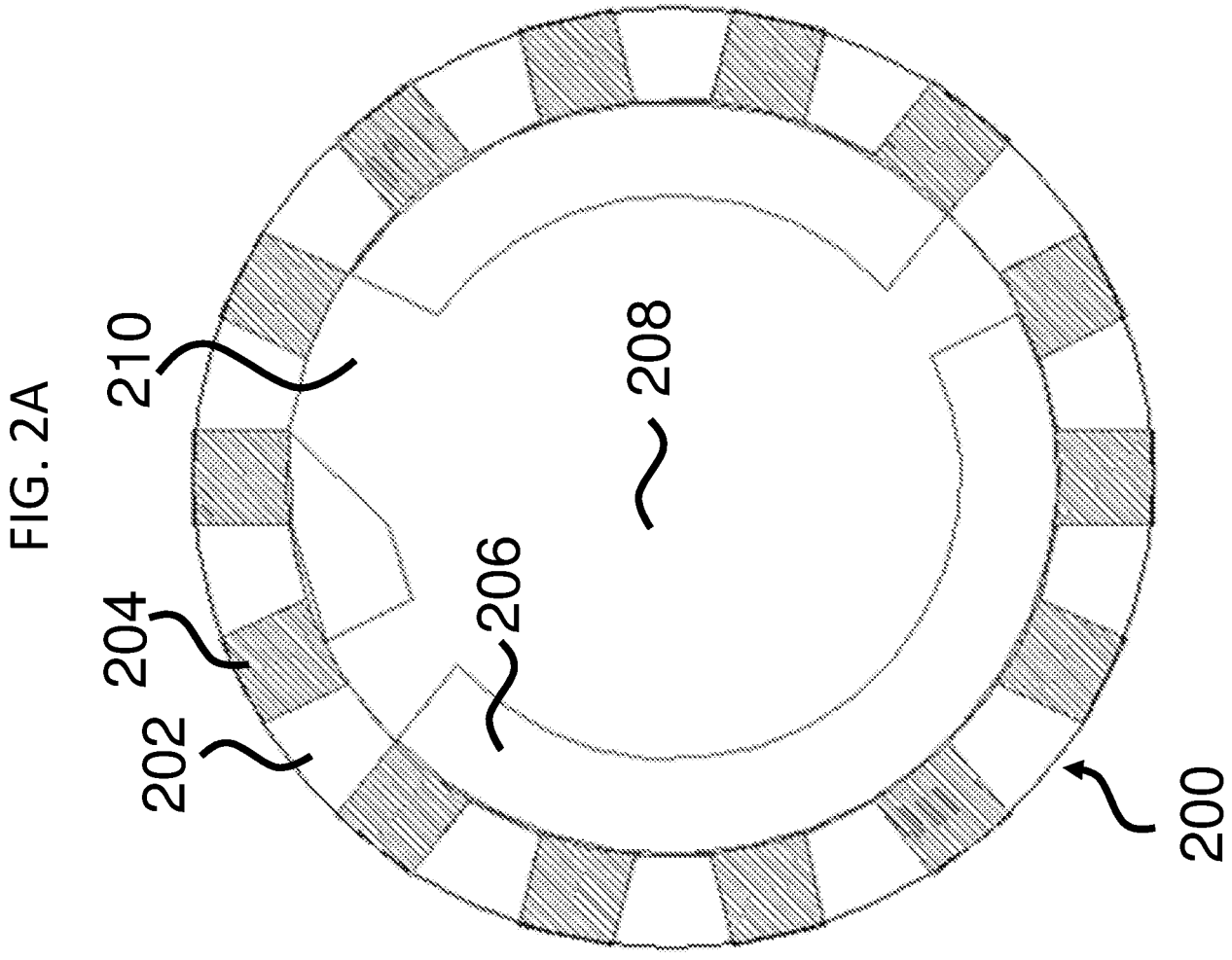


FIG. 2A

FIGS. 2A & 2B

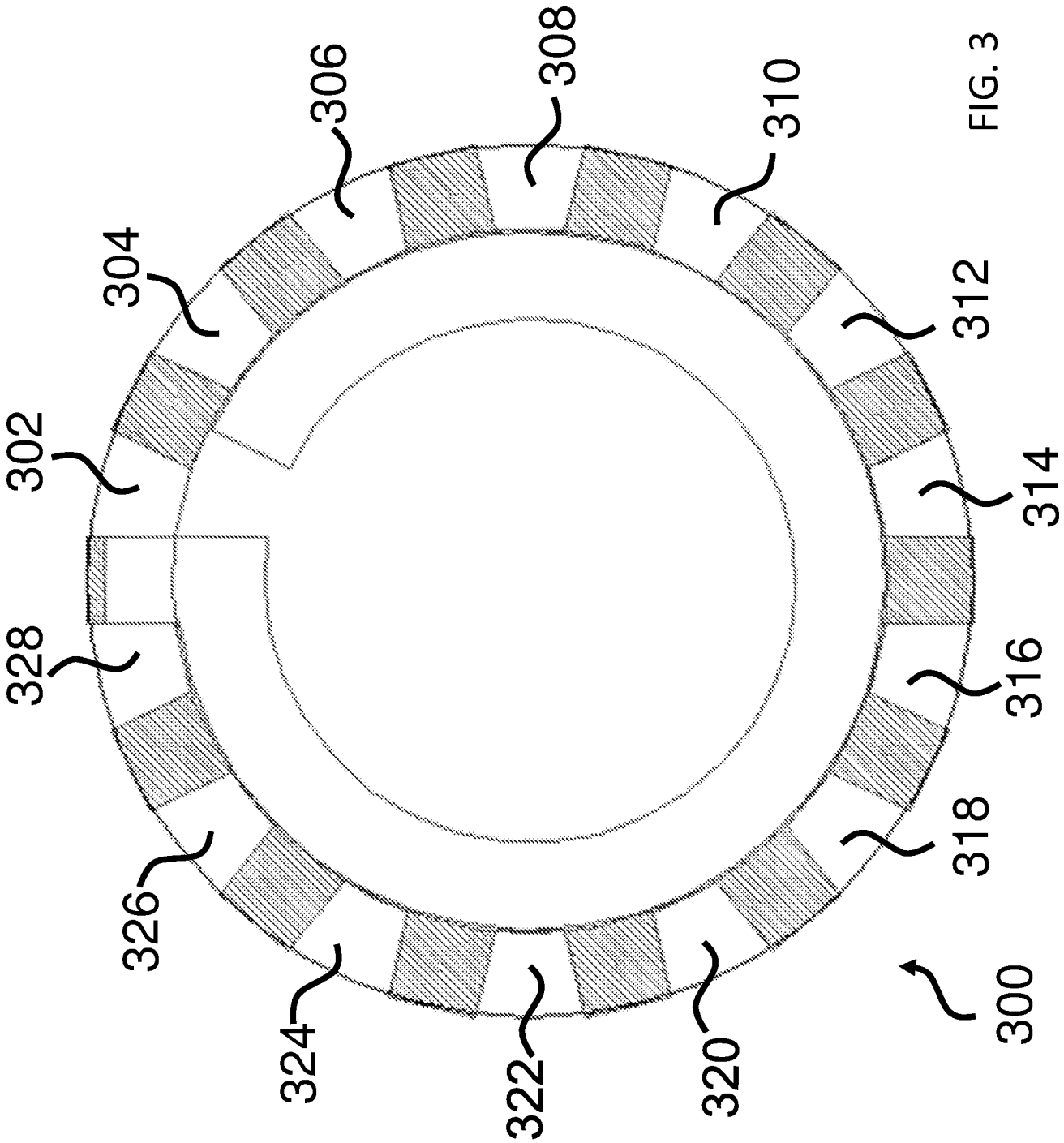


FIG. 3

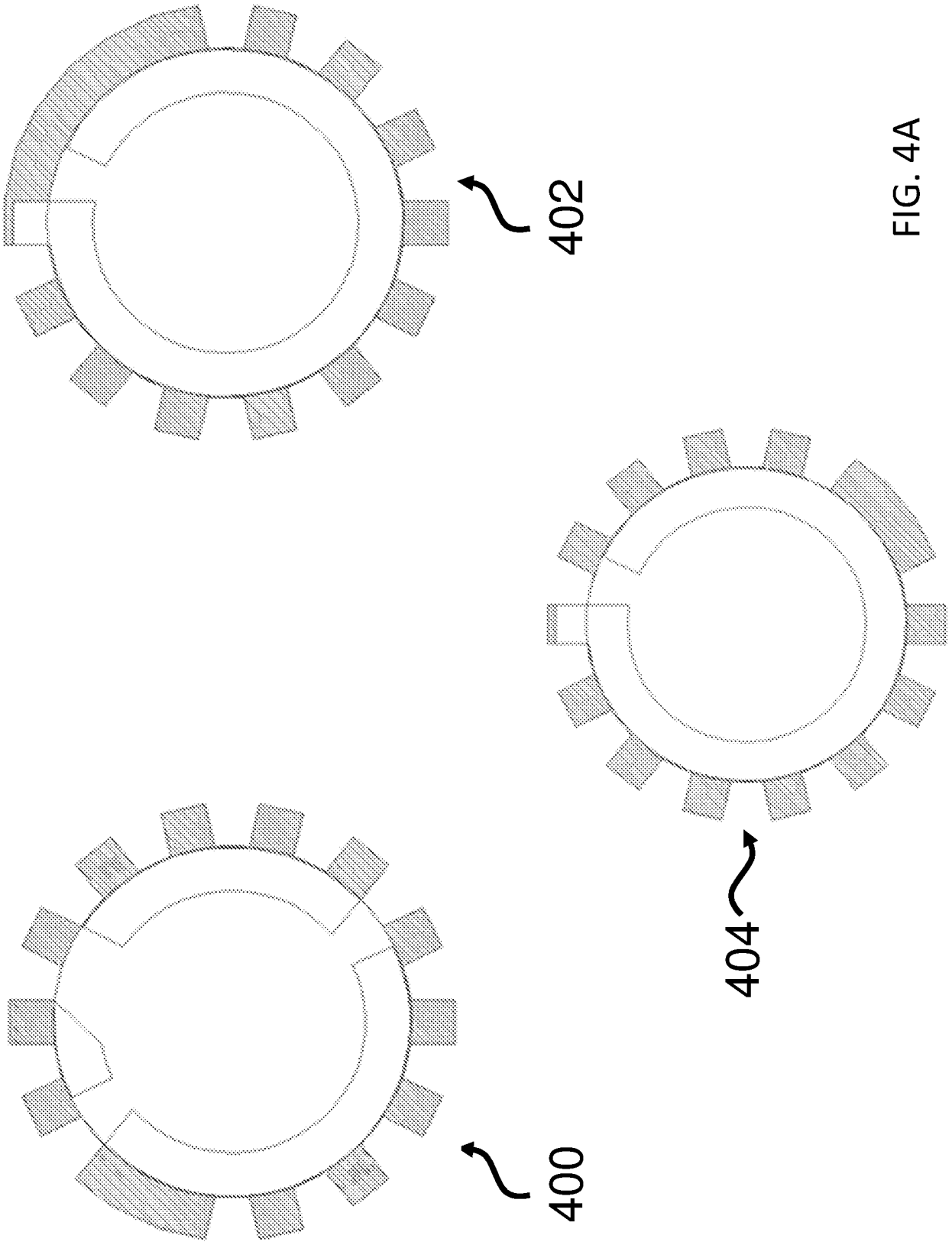
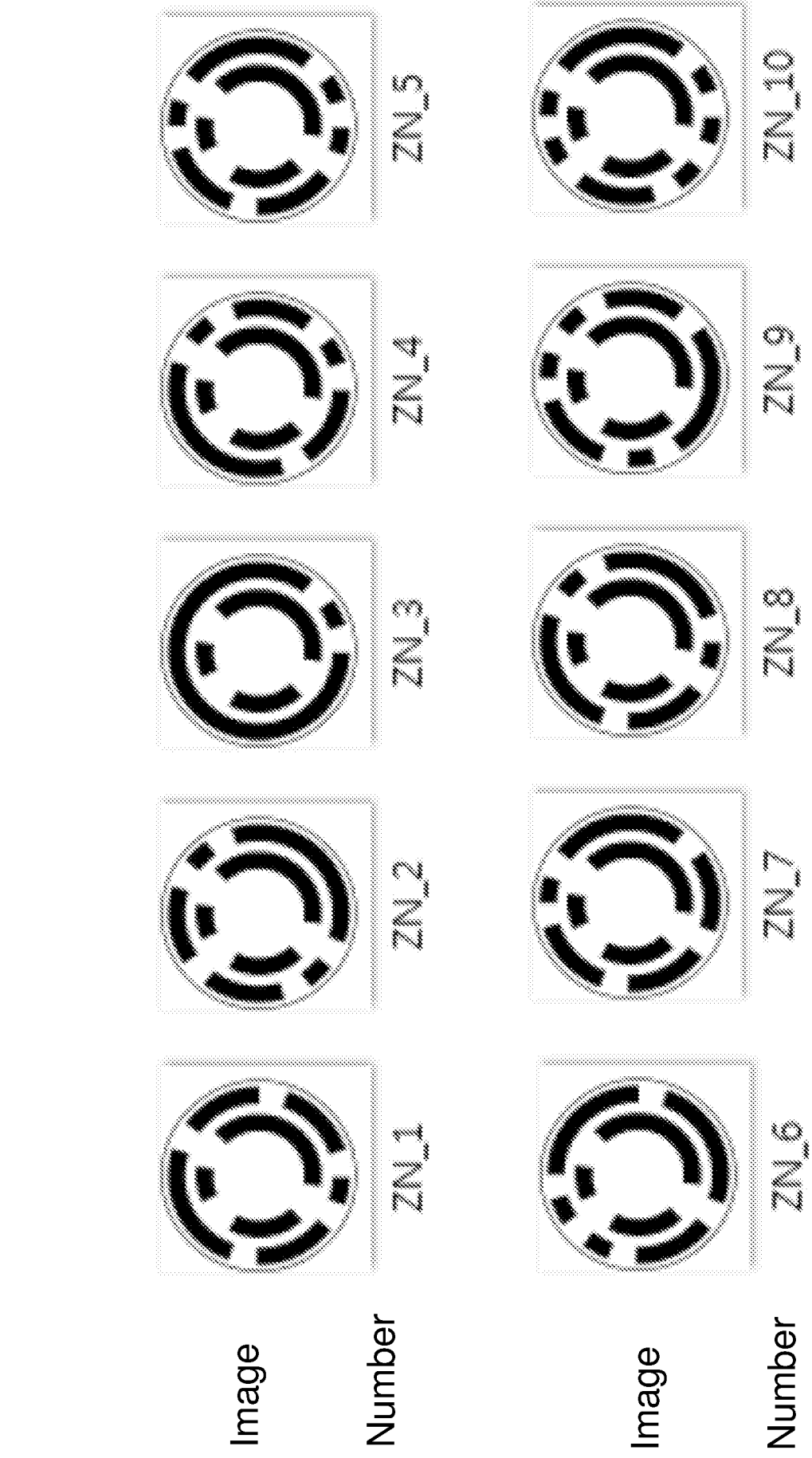


FIG. 4A



Image
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ZN_2
ZN_3
ZN_4
ZN_5
Image
Number
ZN_6
ZN_7
ZN_8
ZN_9
ZN_10

FIG. 4B

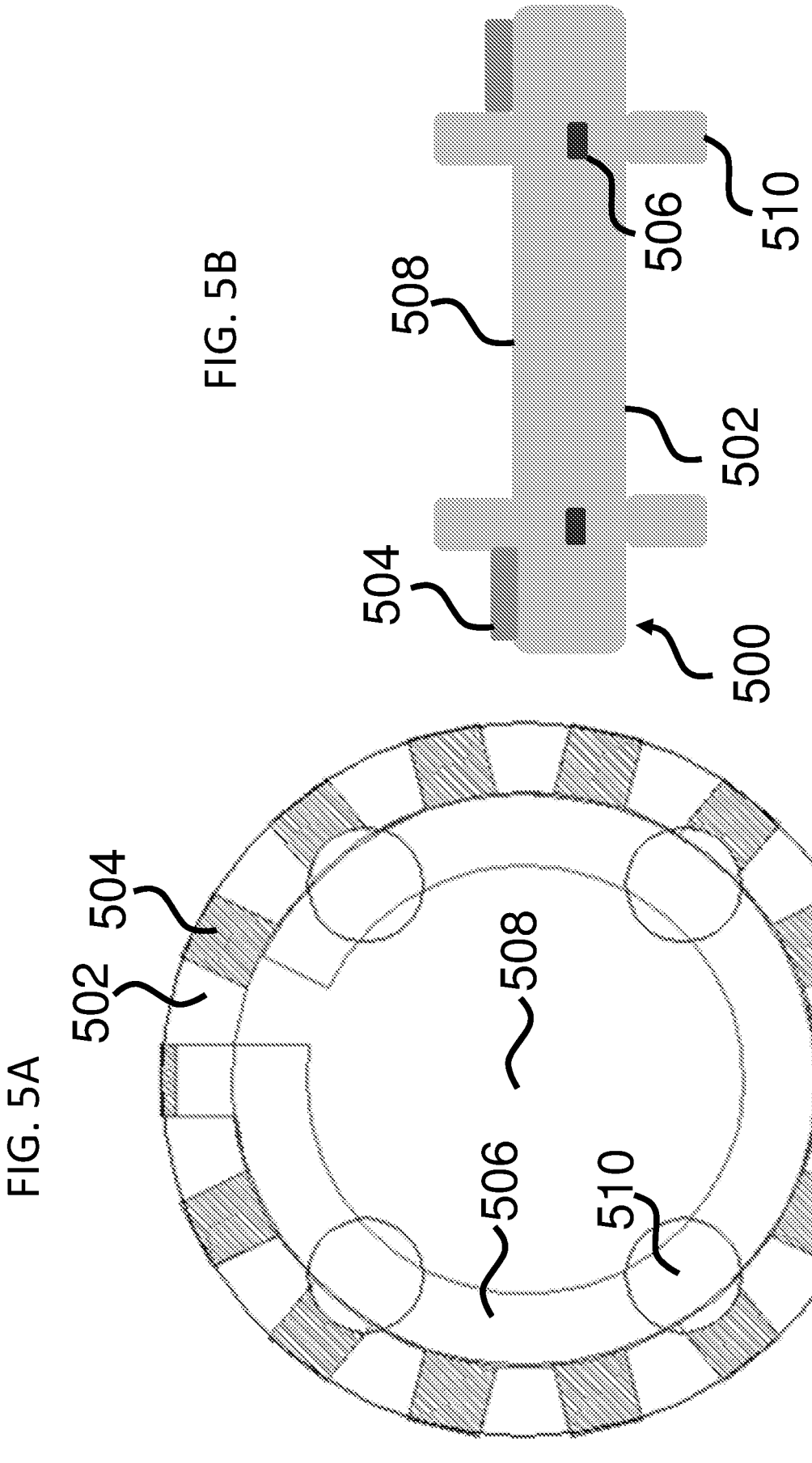


FIG. 5A

FIG. 5B

FIGS. 5A & 5B

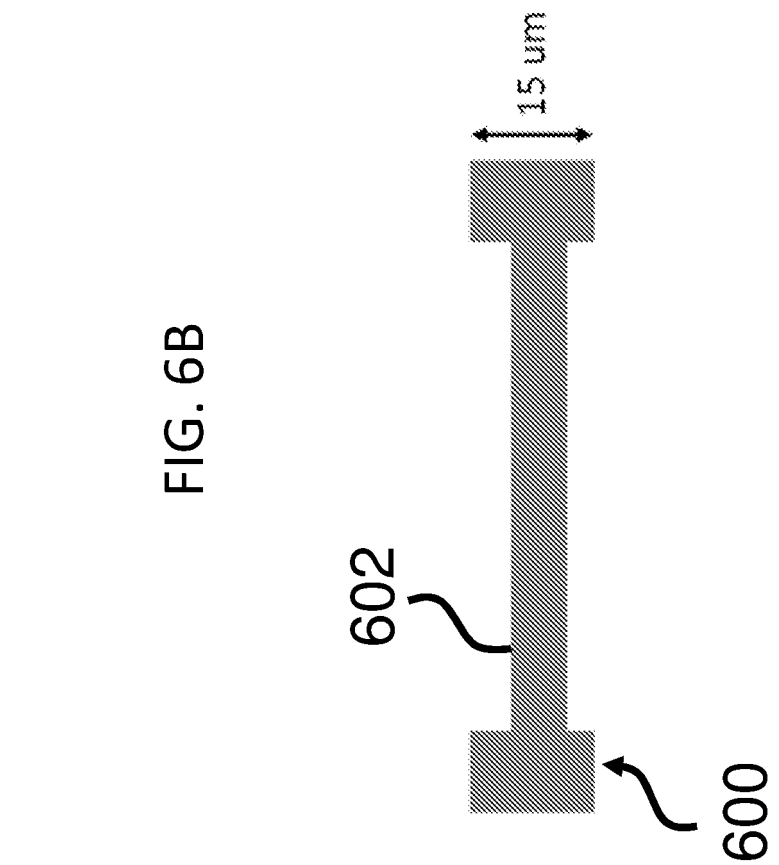


FIG. 6B

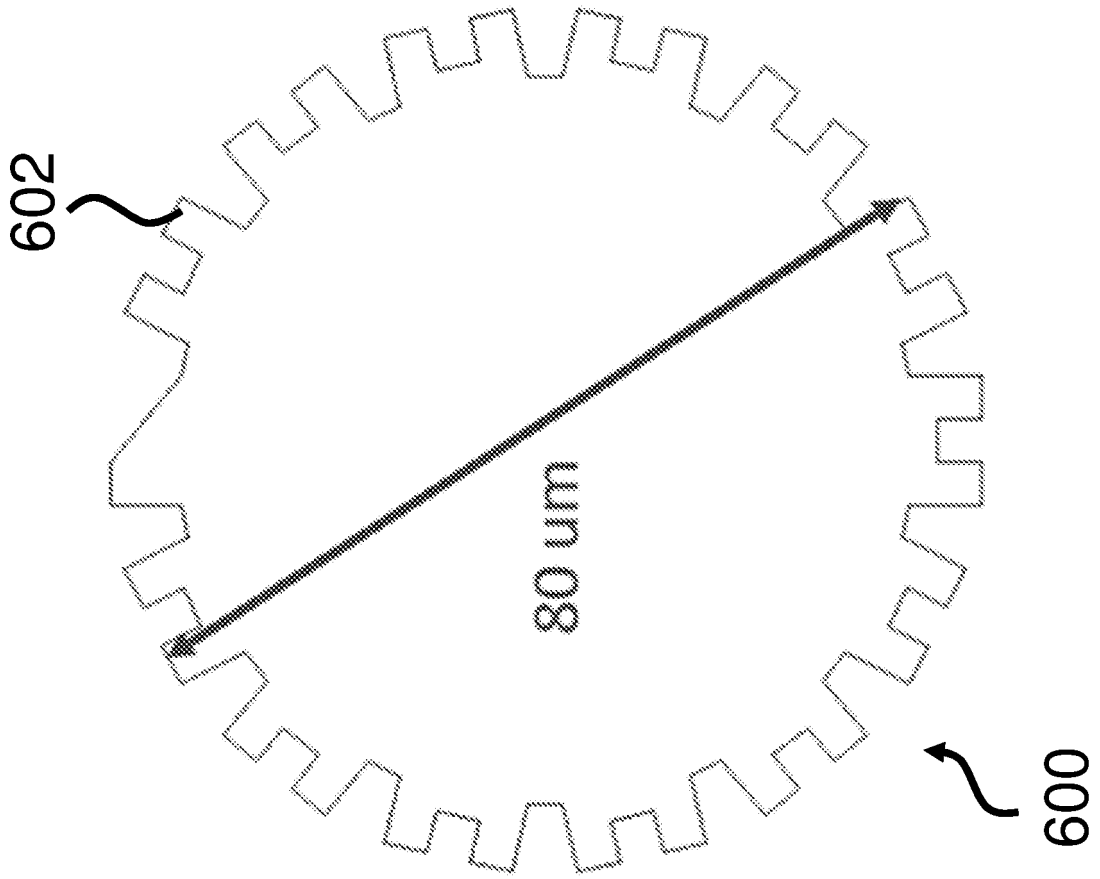


FIG. 6A

FIGS. 6A & 6B

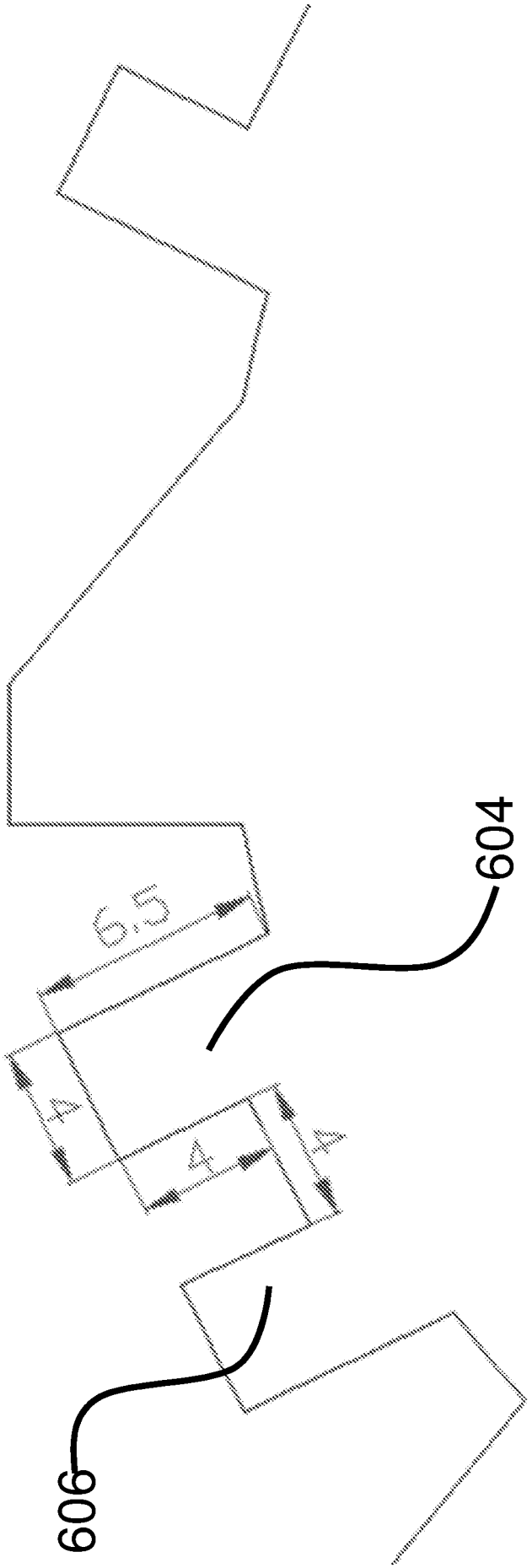


FIG. 6C

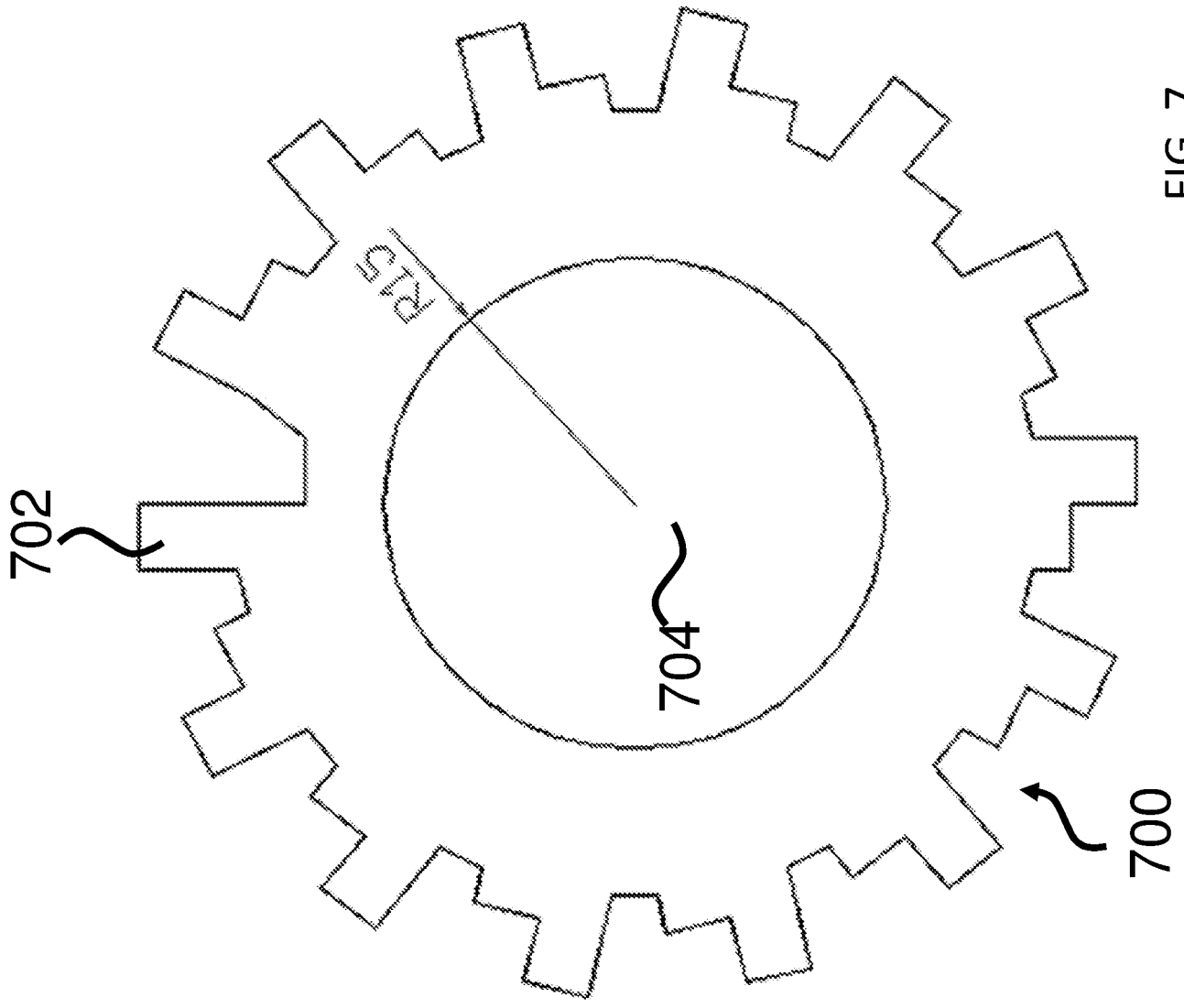


FIG. 7

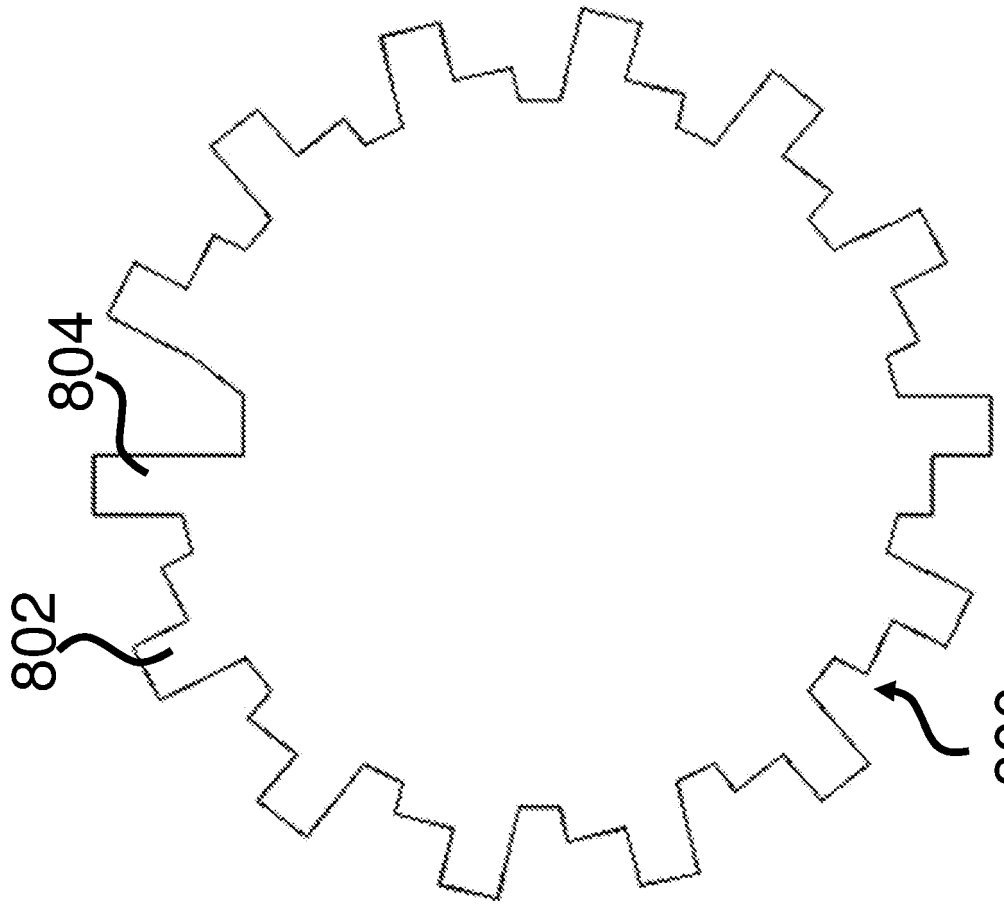


FIG. 8A

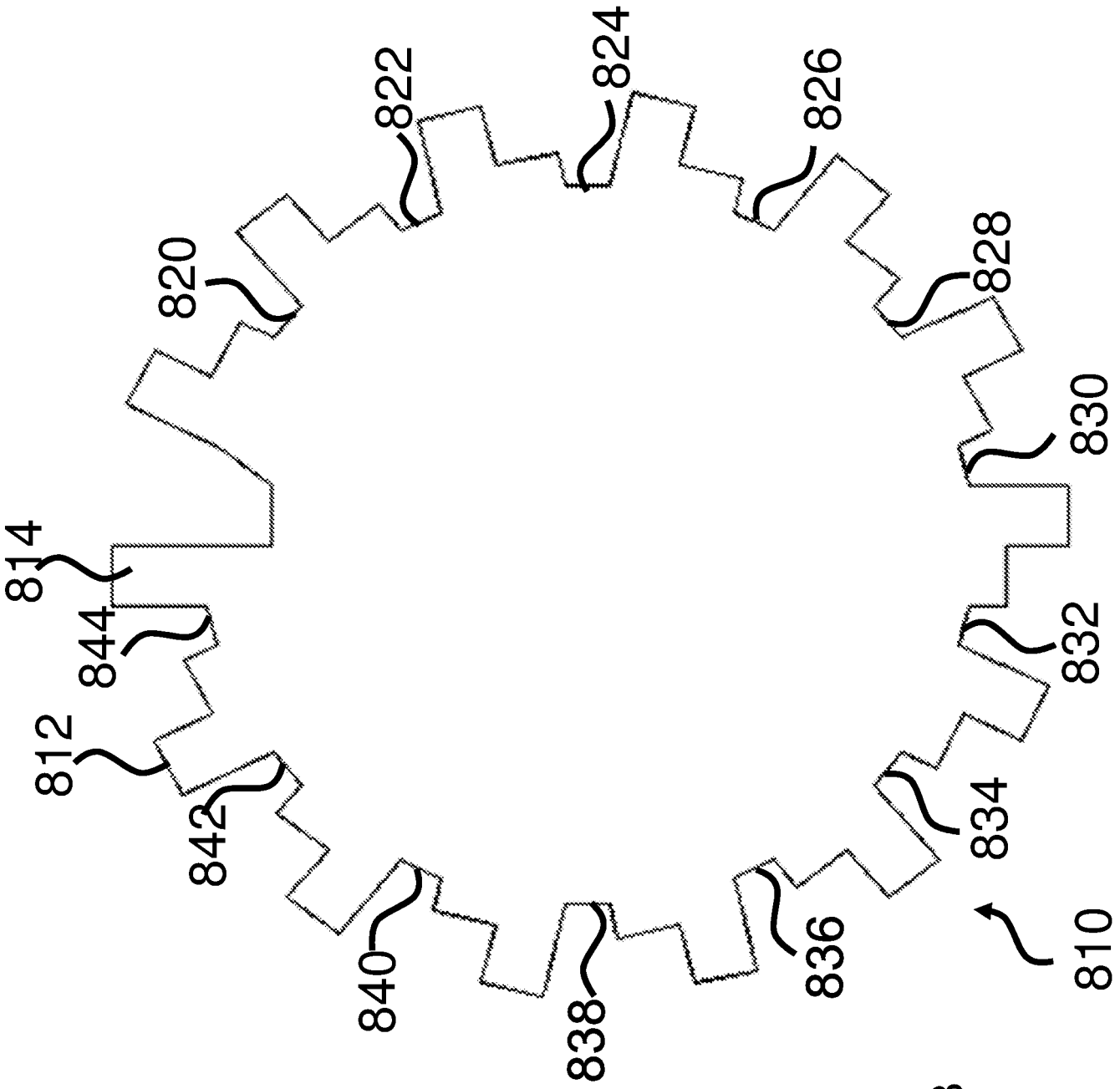


FIG. 8B

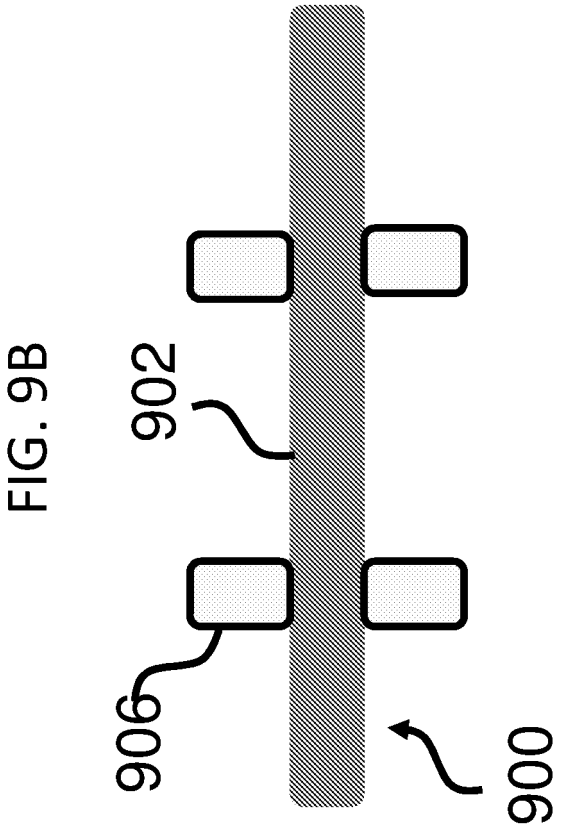


FIG. 9B

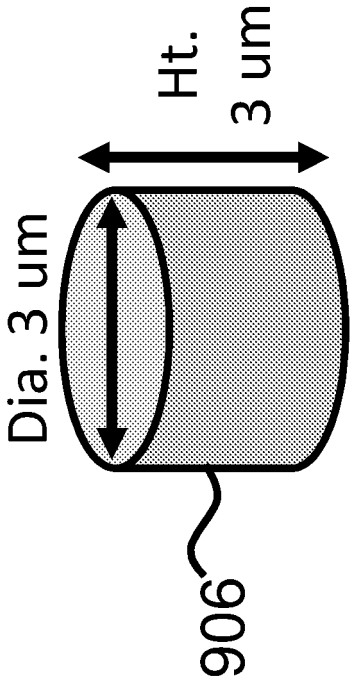


FIG. 9C

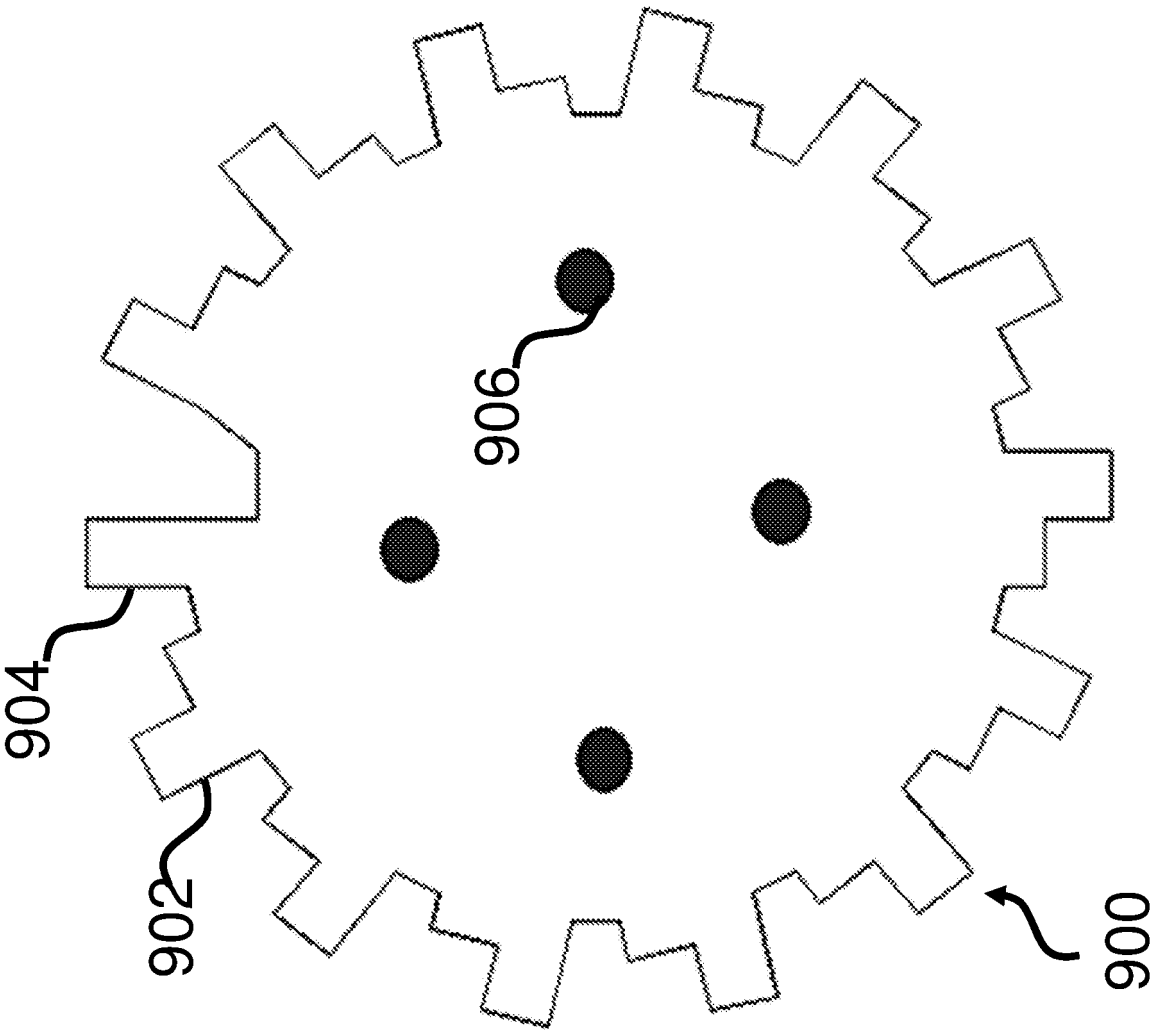
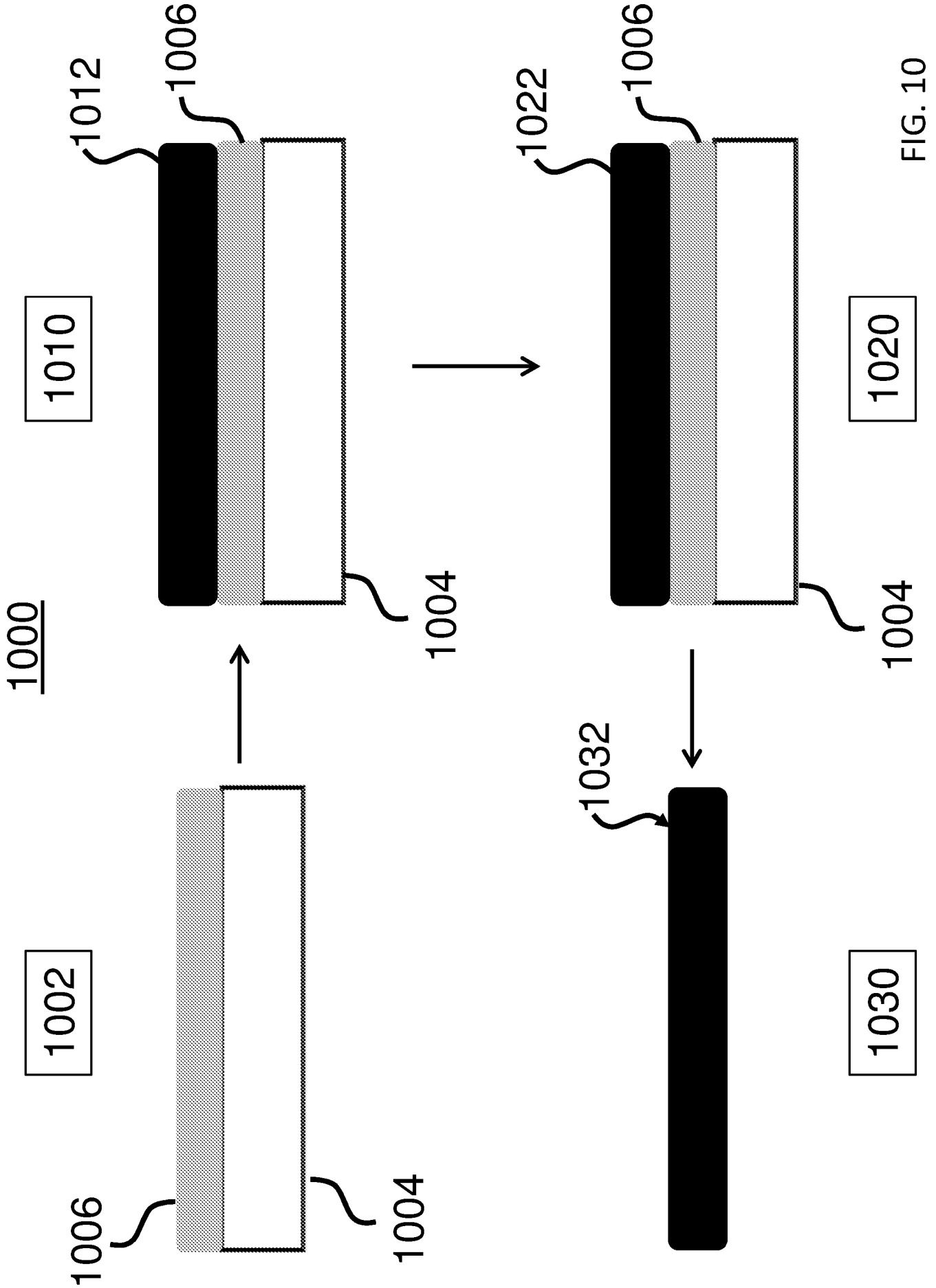


FIG. 9A

FIGS. 9A-9C


1000
1002
1004
1006
1010
1012
1004
1006
1020
1022
1004
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1030
1032

FIG. 10

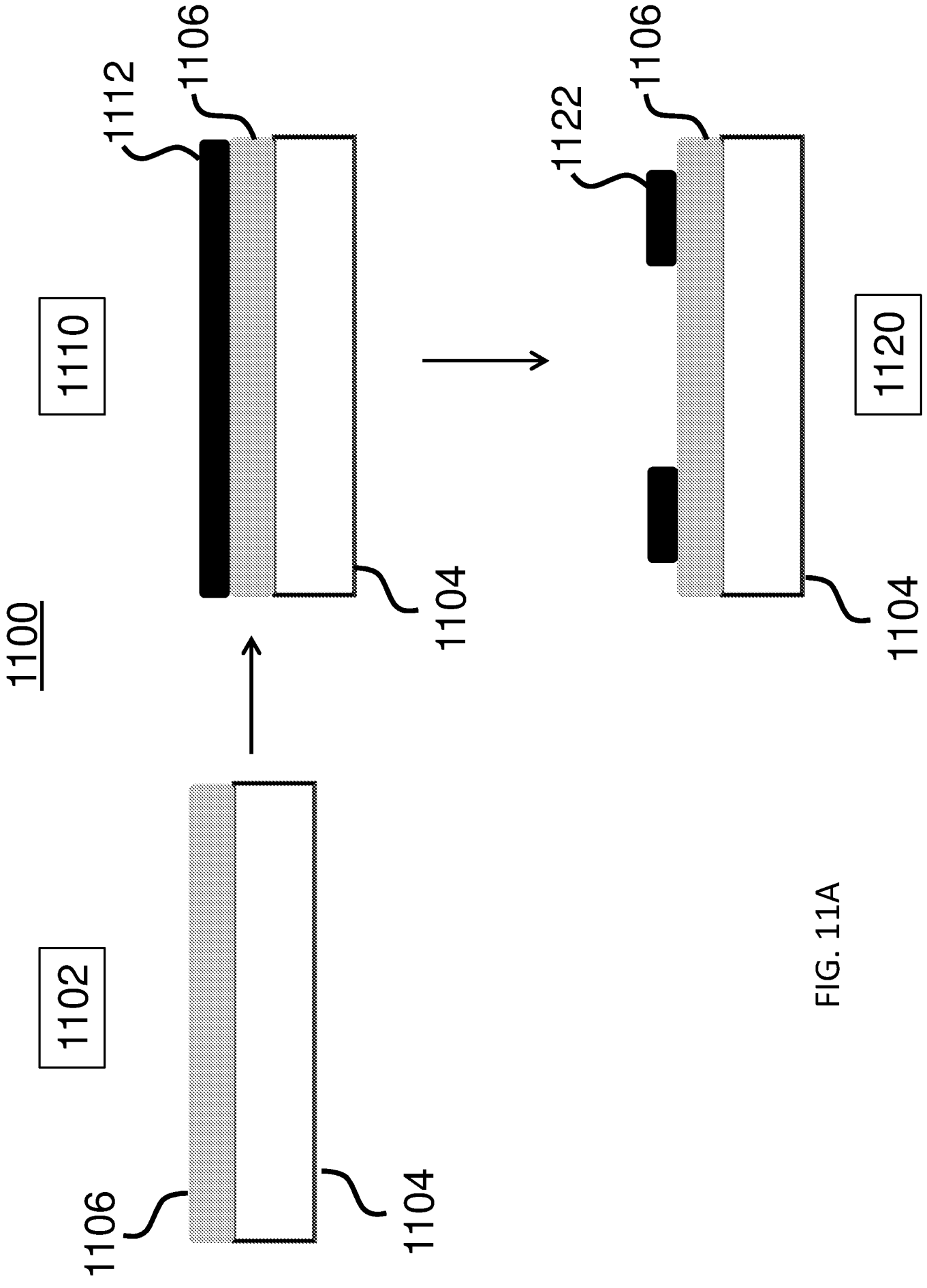
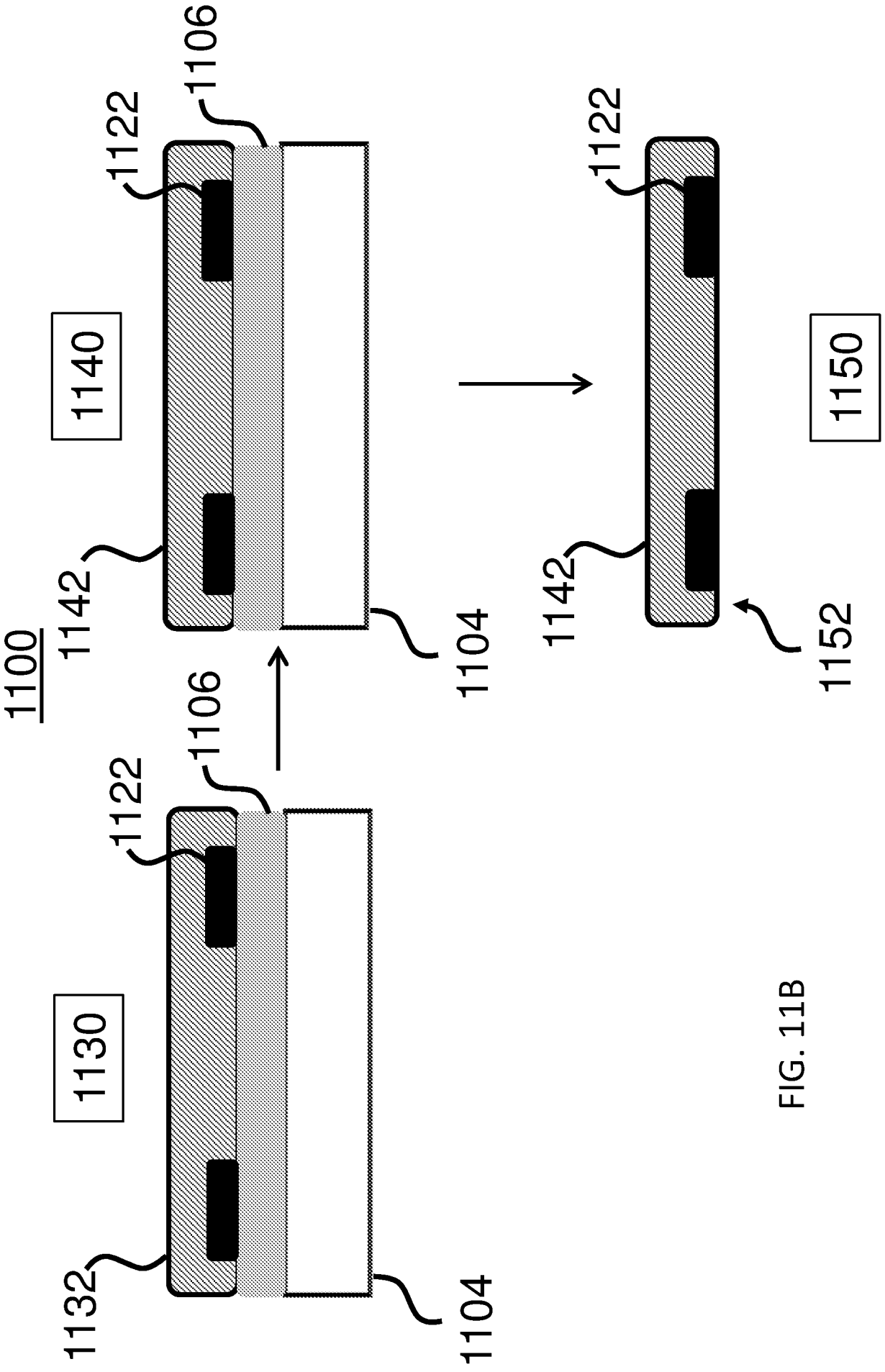


FIG. 11A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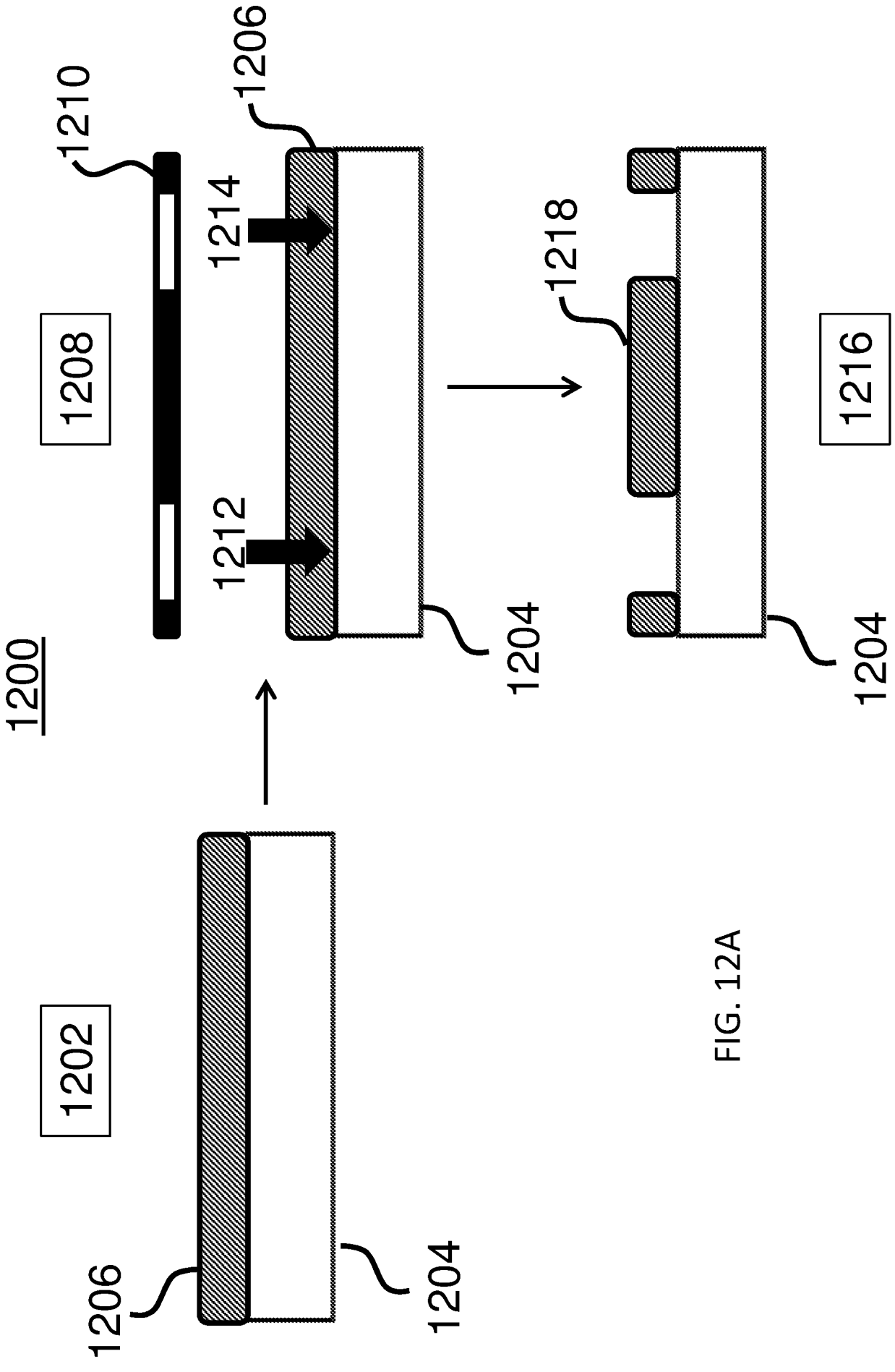
1106
1104
1150
1142
1152

FIG. 11B


1200
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1210
1206
1214
1212
1204
1218
1216
1204

FIG. 12A

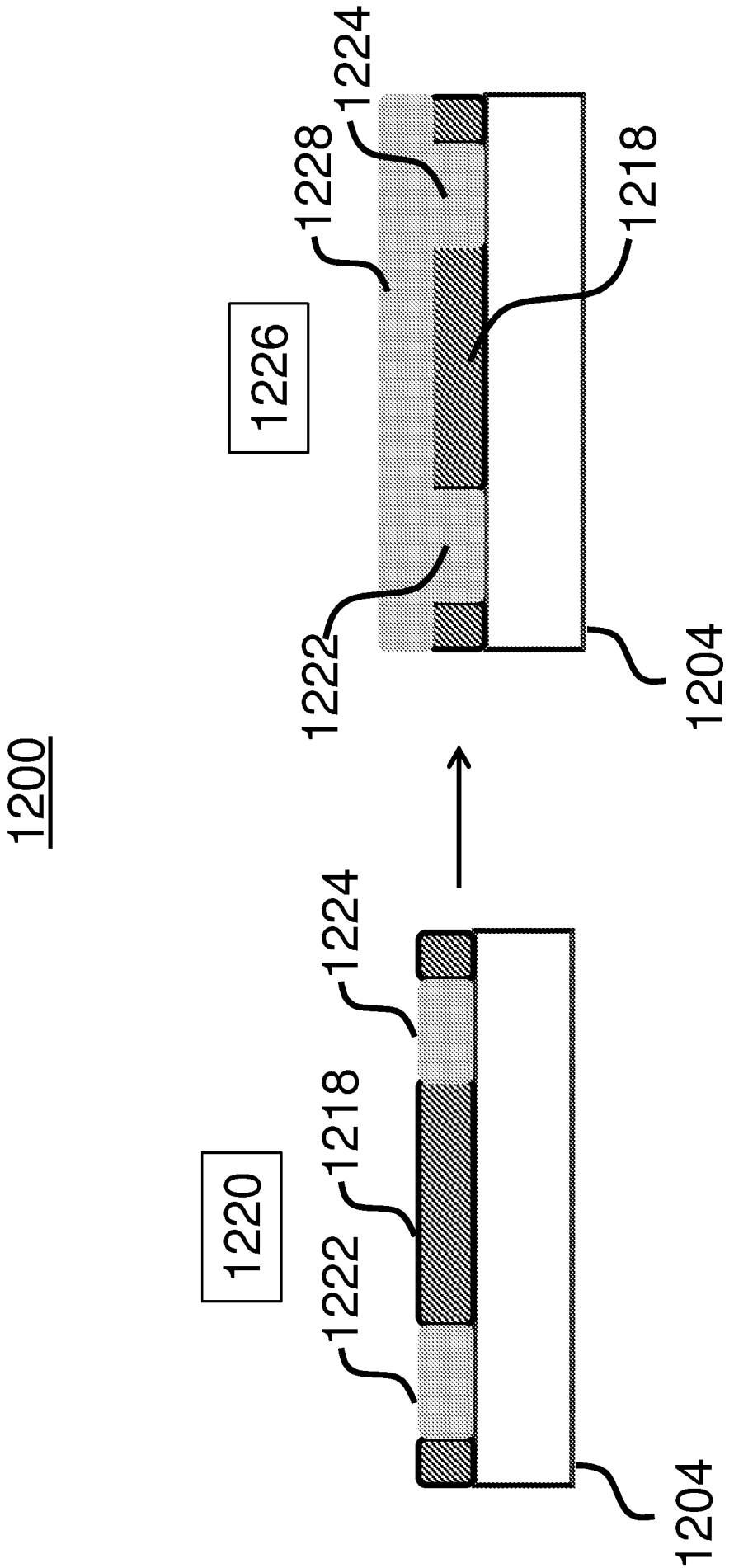
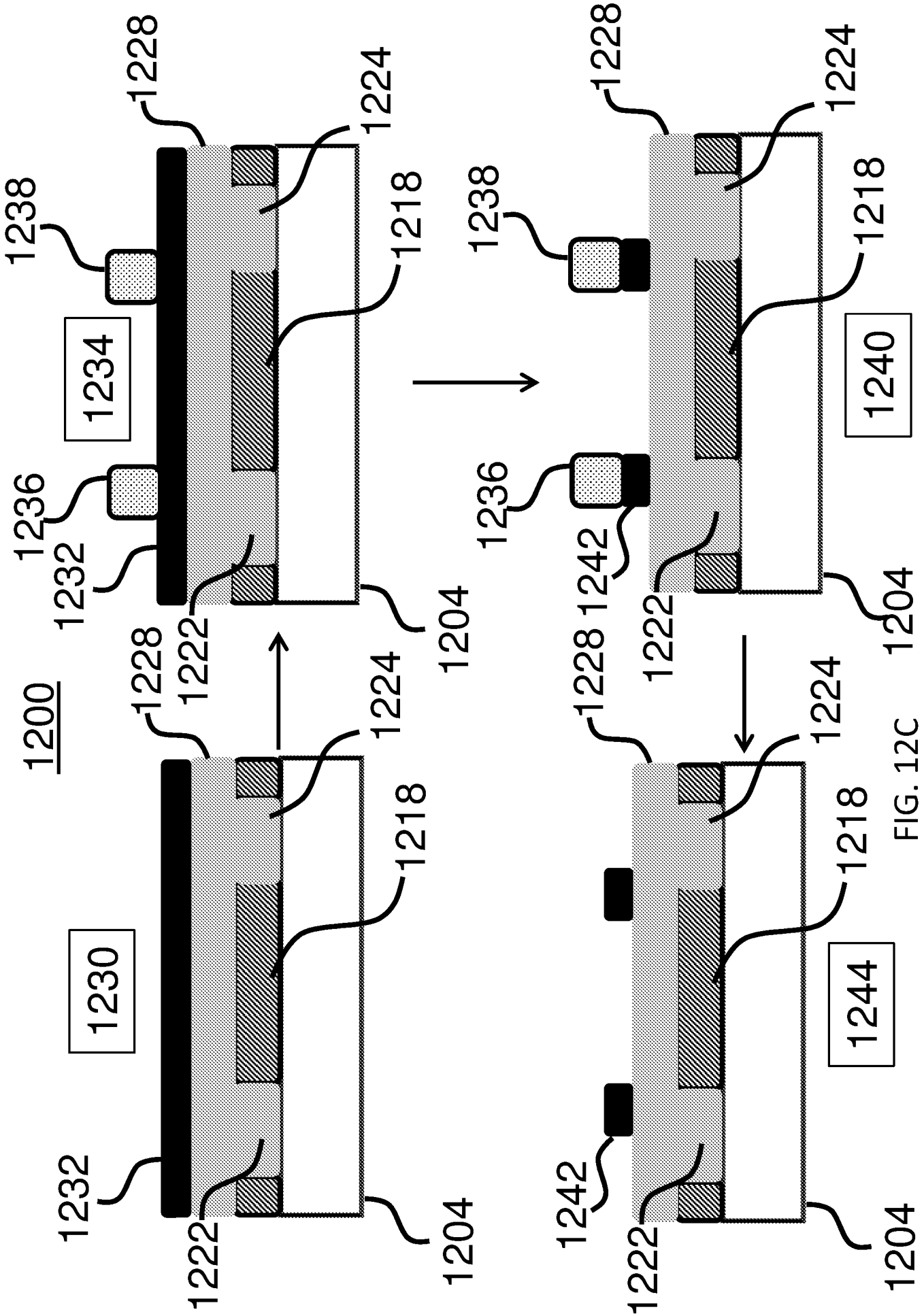


FIG. 12B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1234
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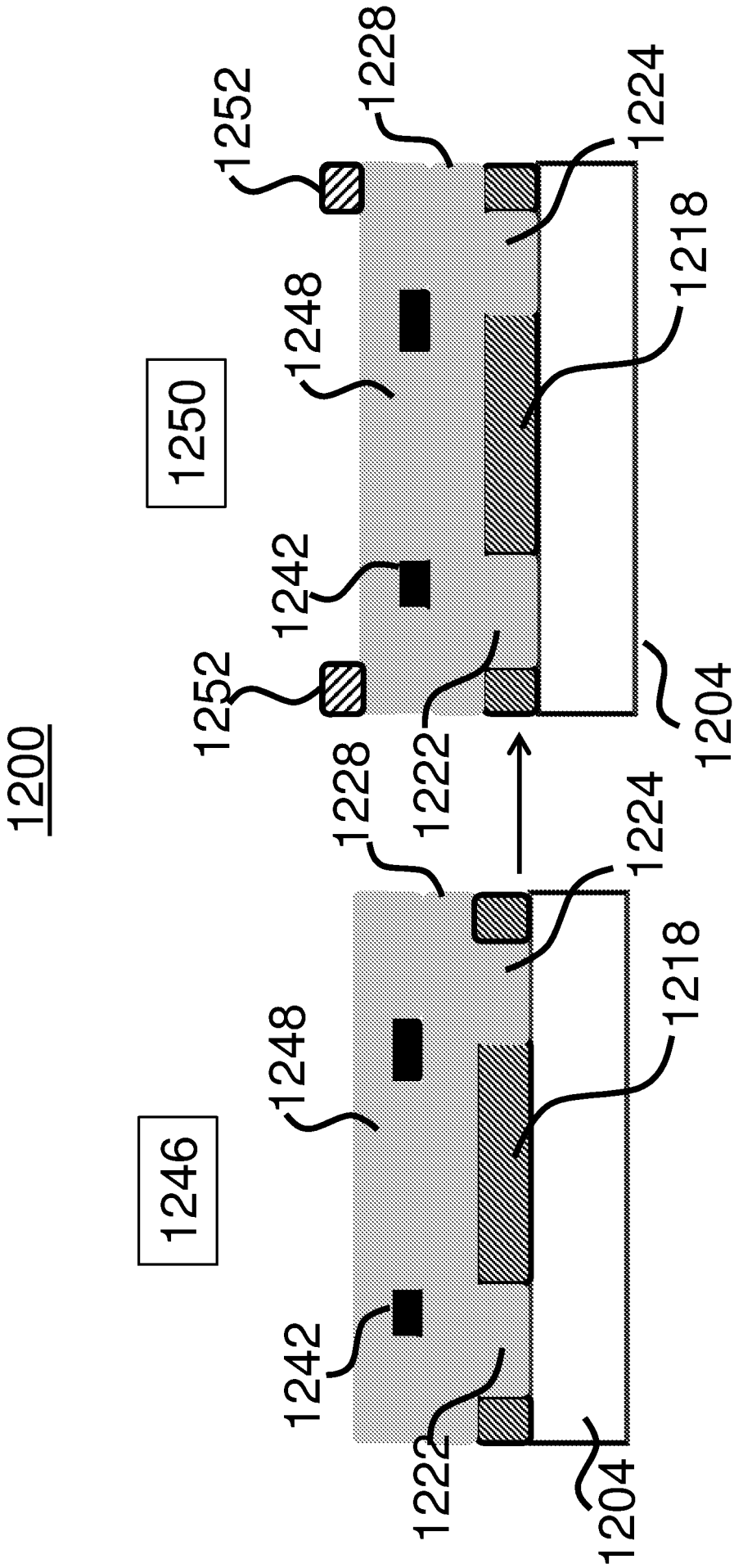
1242
1244

FIG. 12C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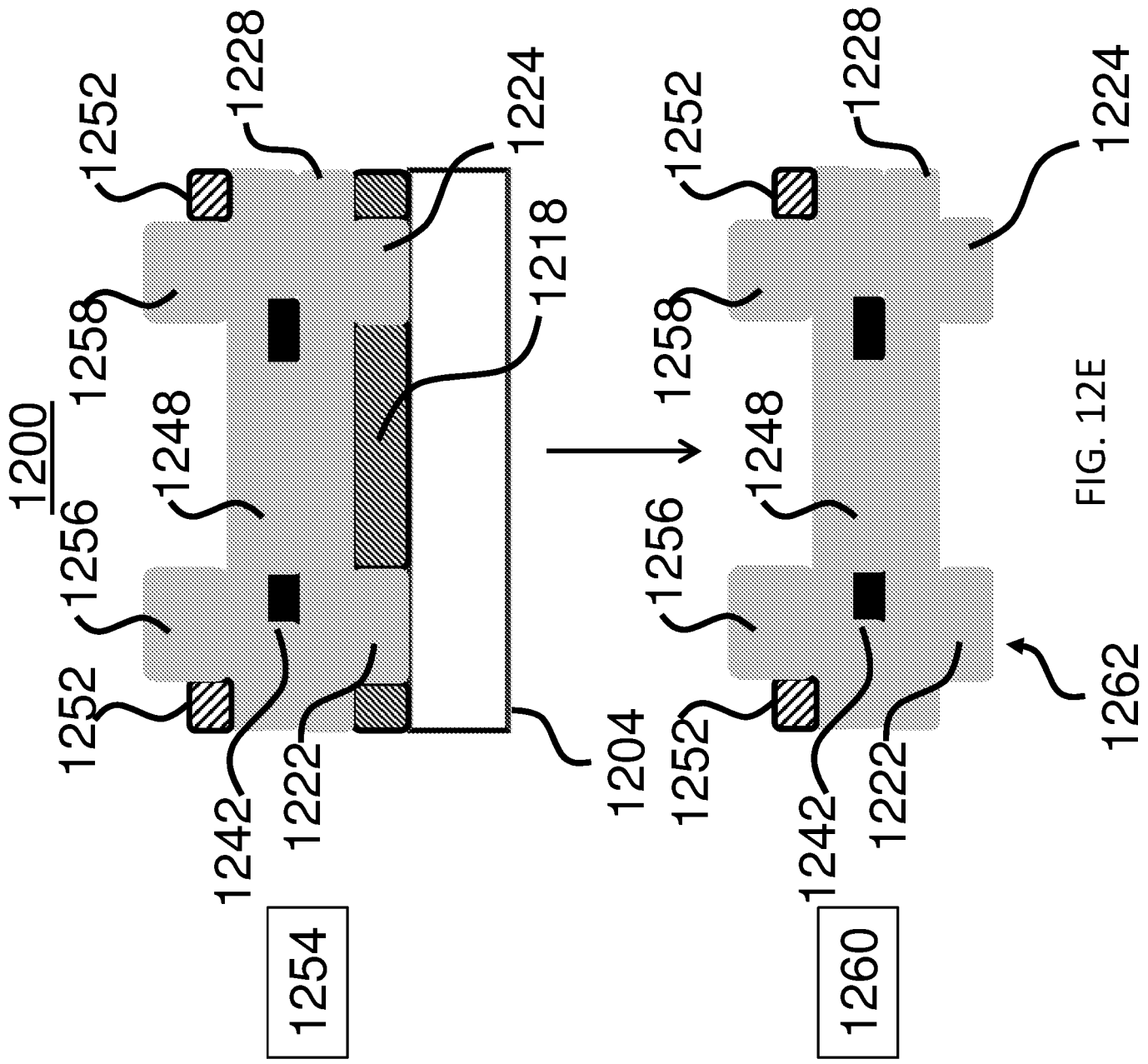
1204

FIG. 12D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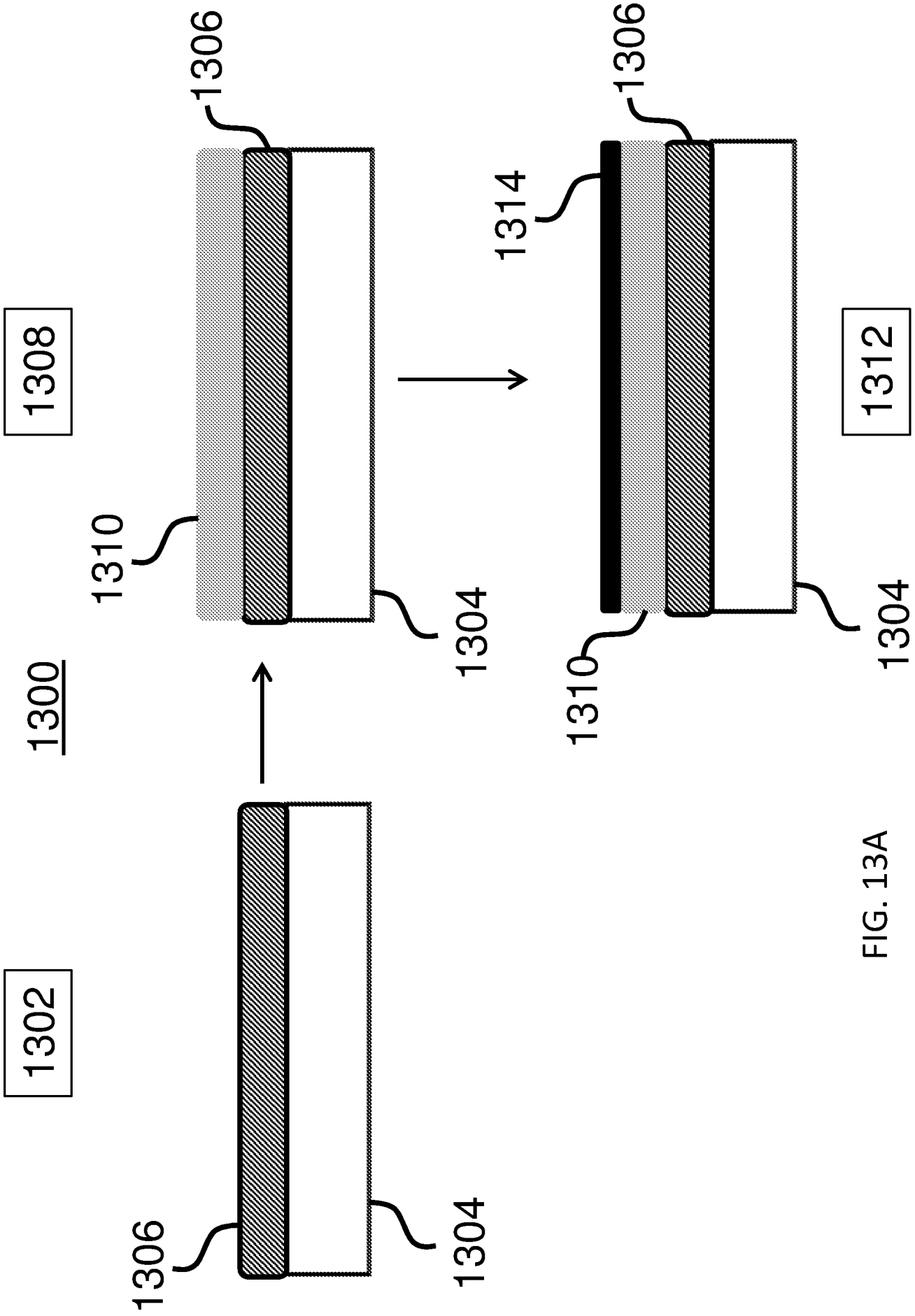
1260
1262

FIG. 12E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1304

FIG. 13A

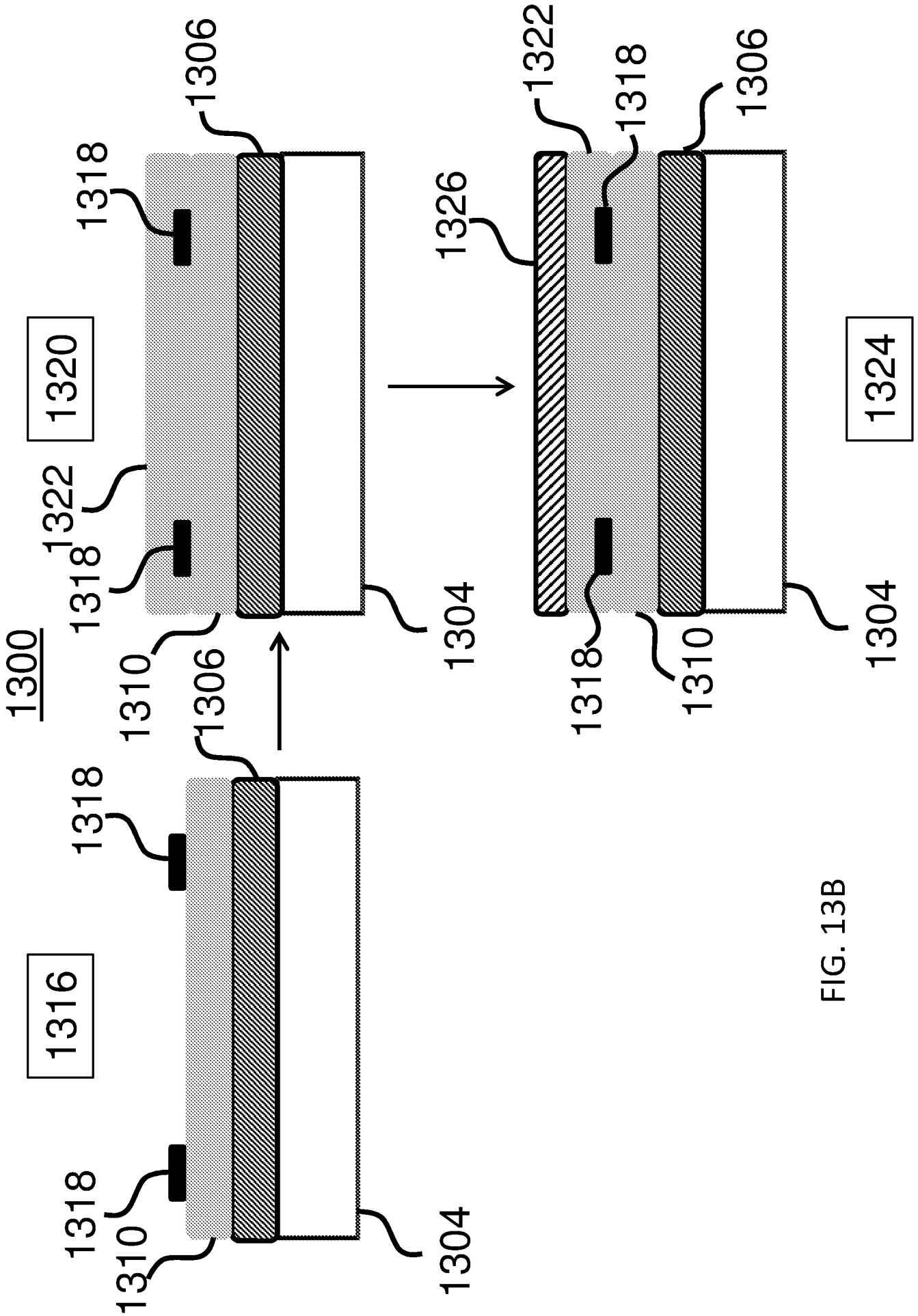
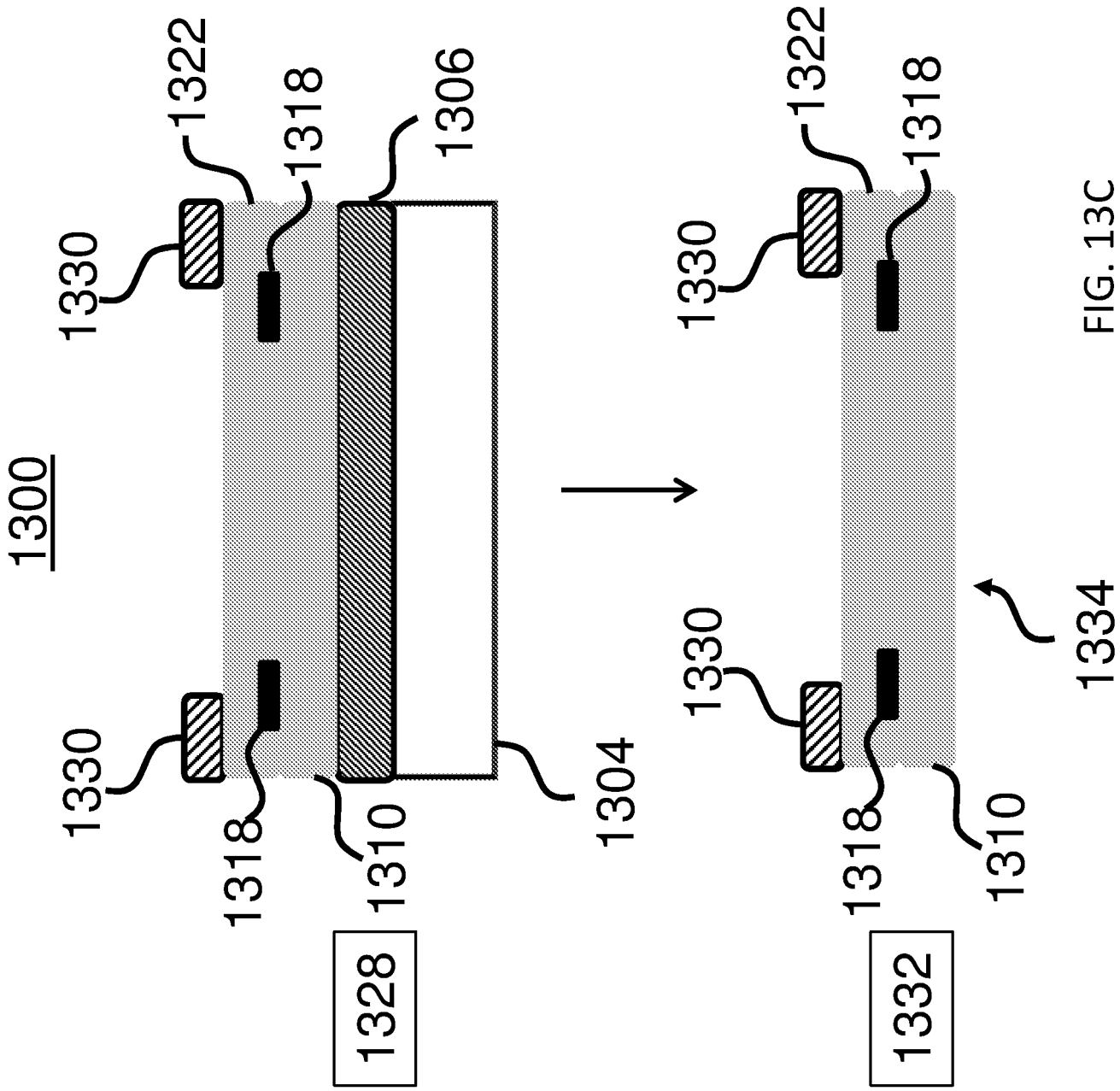


FIG. 13B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1332

FIG. 13C

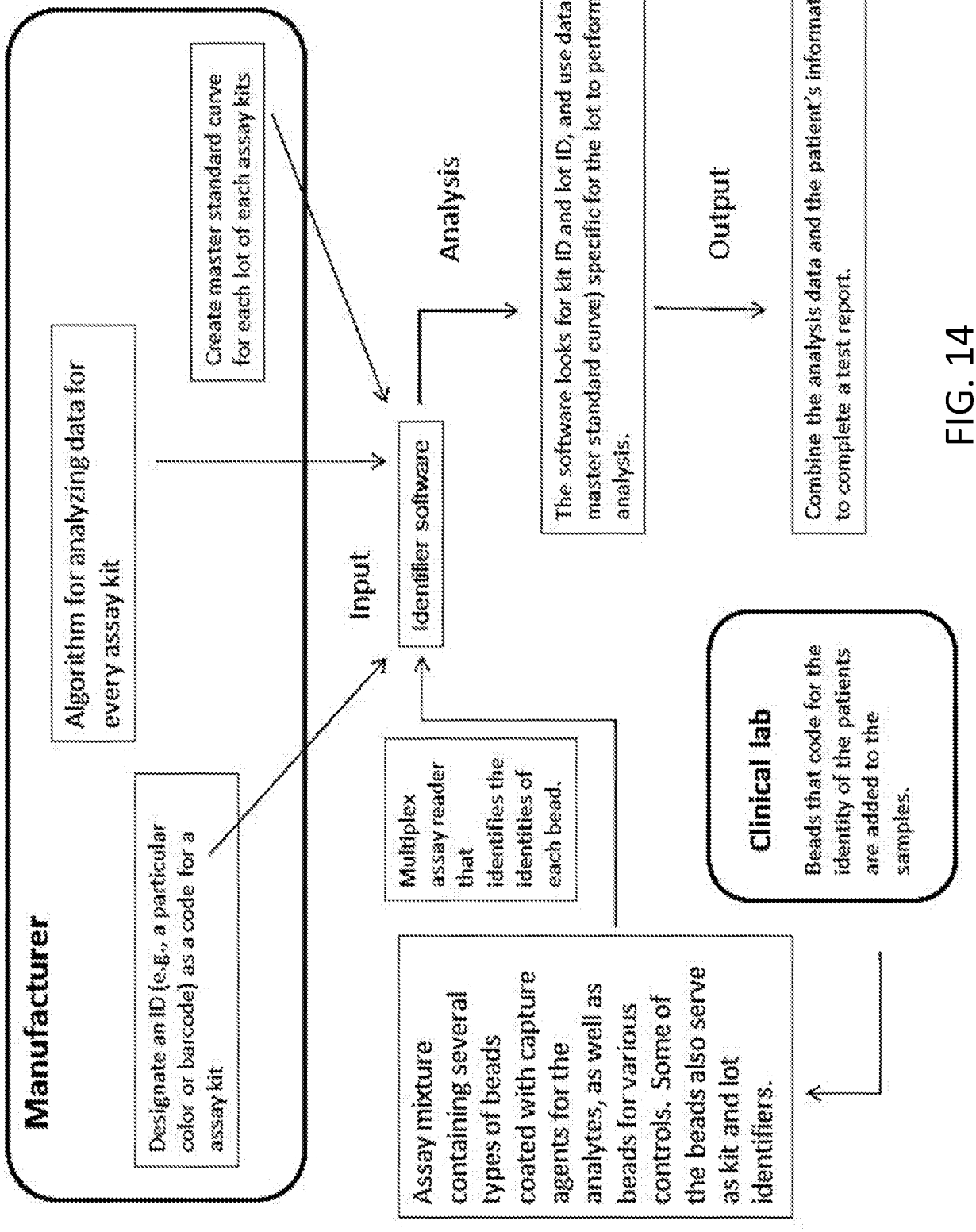
Manufacturer
Designate an ID (e.g., a particular color or barcode) as a code for a assay kit
Algorithm for analyzing data for every assay kit
Create master standard curve for each lot of each assay kits
Assay mixture containing several types of beads coated with capture agents for the analytes, as well as beads for various controls. Some of the beads also serve as kit and lot identifiers.
Multiplex assay reader that identifies the identities of each bead.
Input
Identifier software
Analysis
The software looks for kit ID and lot ID, and use data (e.g., master standard curve) specific for the lot to perform analysis.
Output
Combine the analysis data and the patient's information to complete a test report.
Clinical lab
Beads that code for the identity of the patients are added to the samples.

FIG. 14