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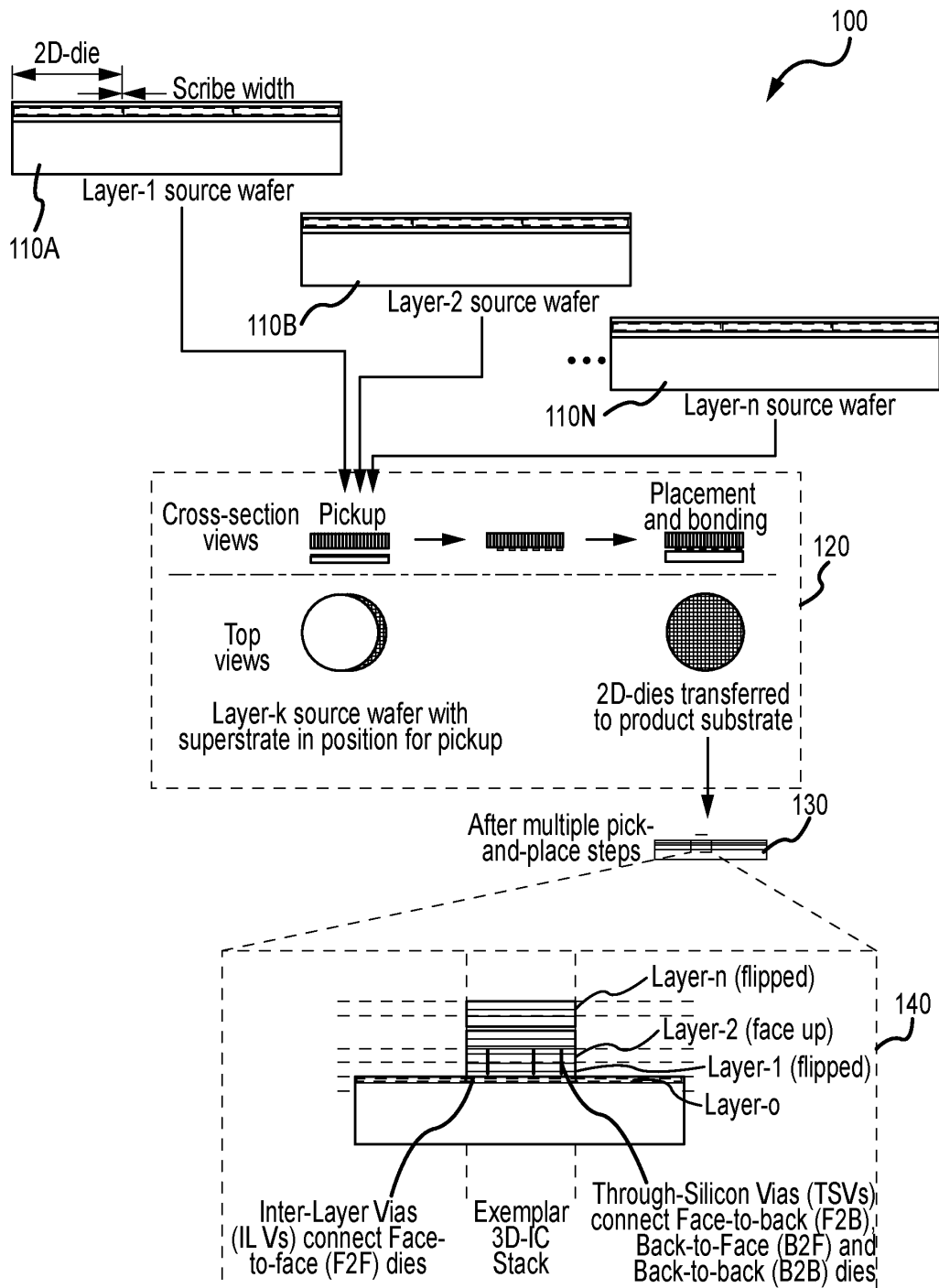


FIG.1

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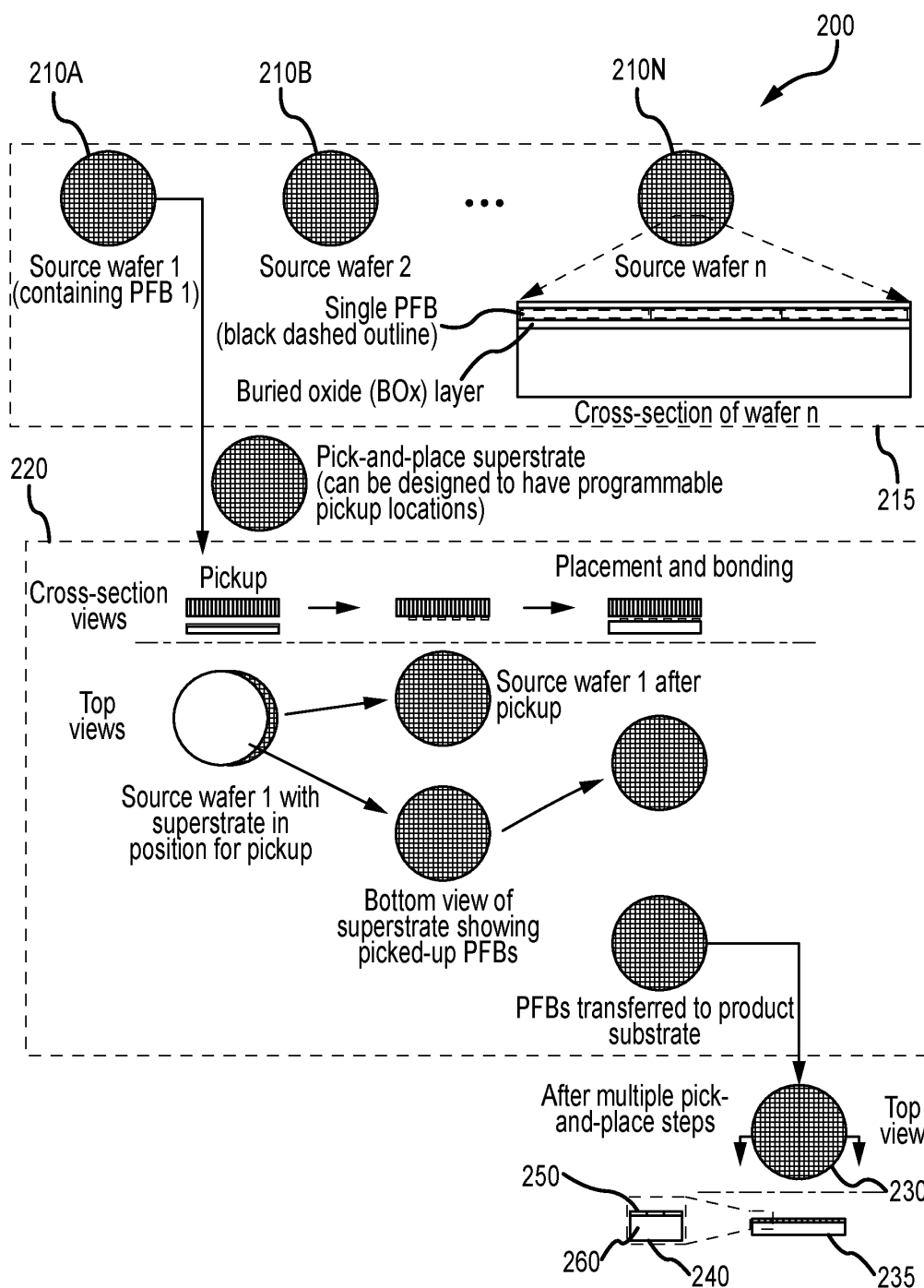


FIG.2

SUBSTITUTE SHEET (RULE 26)

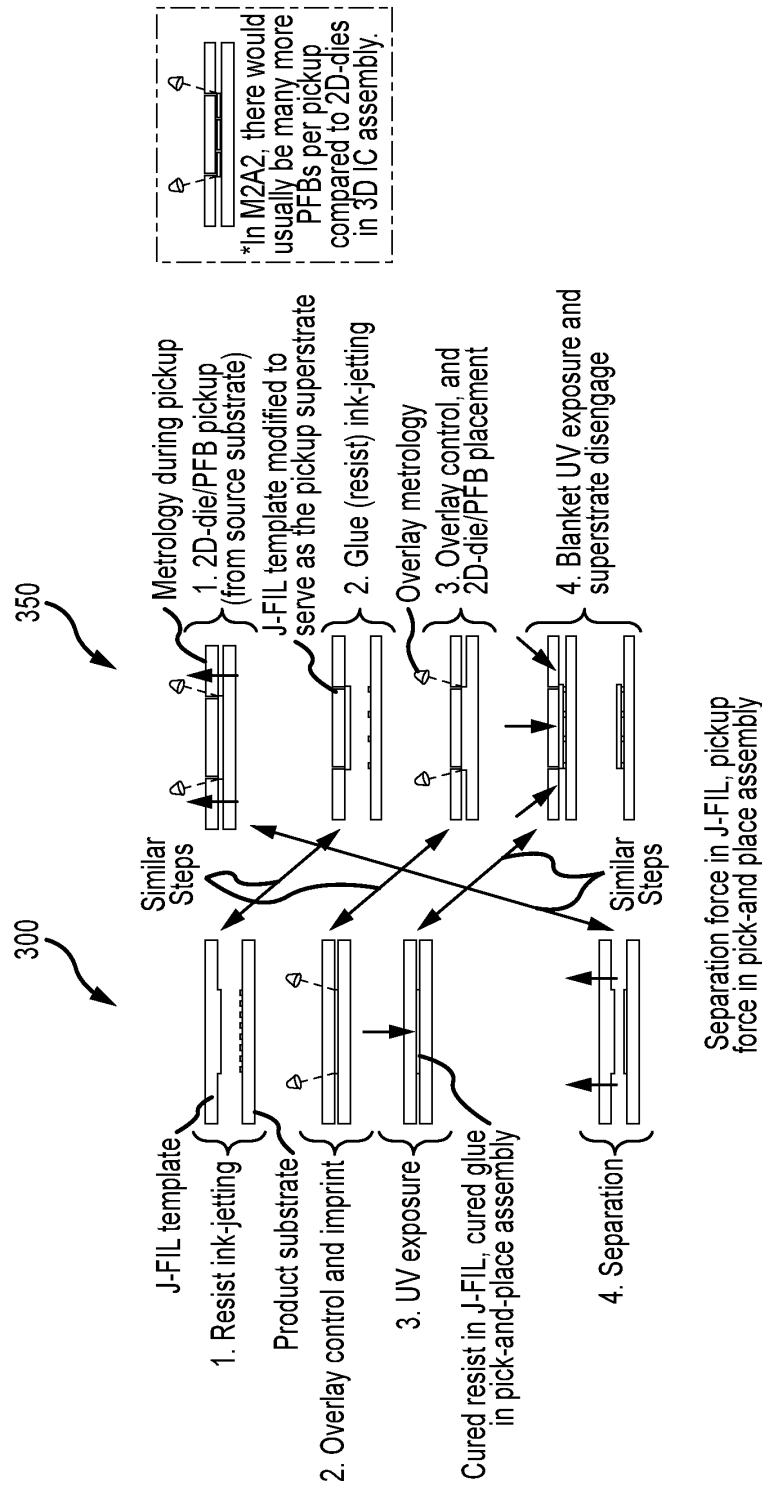


FIG.3

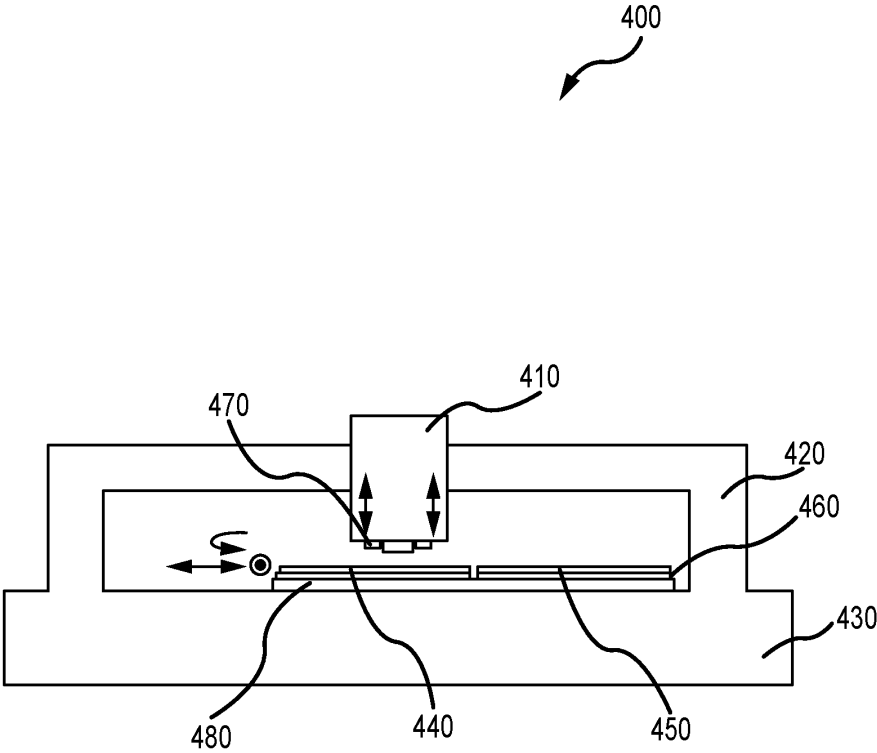
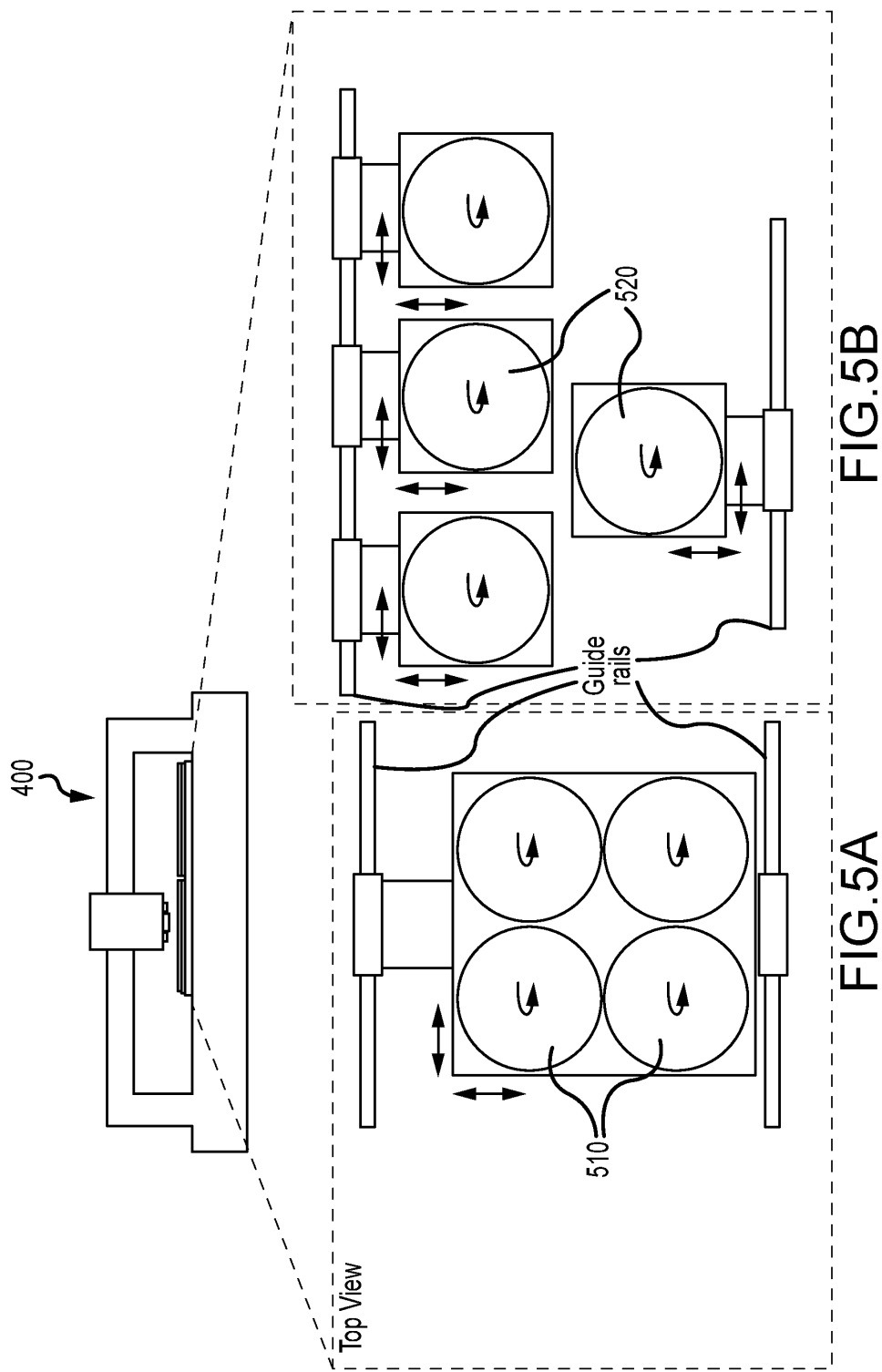


FIG.4



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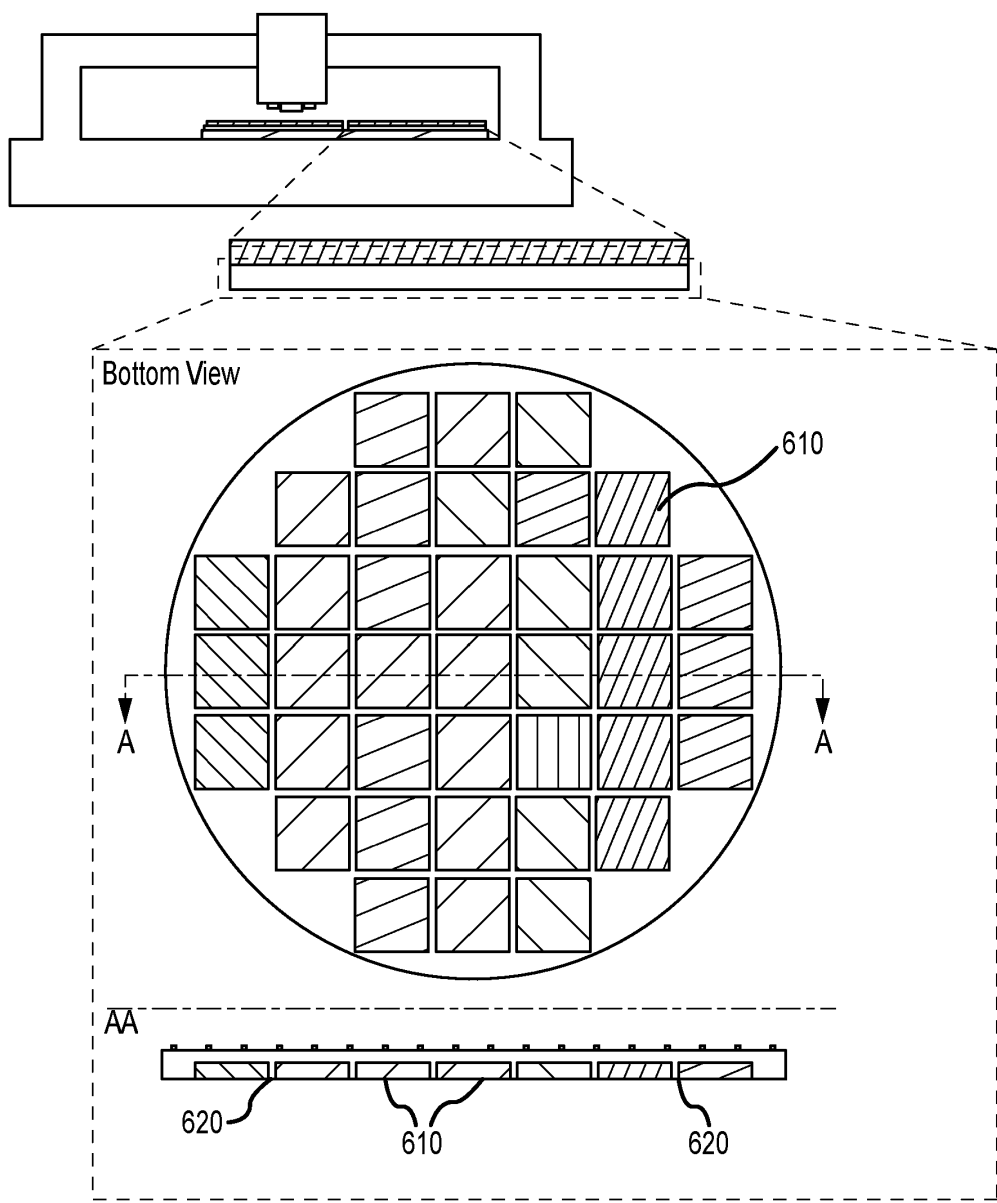


FIG.6

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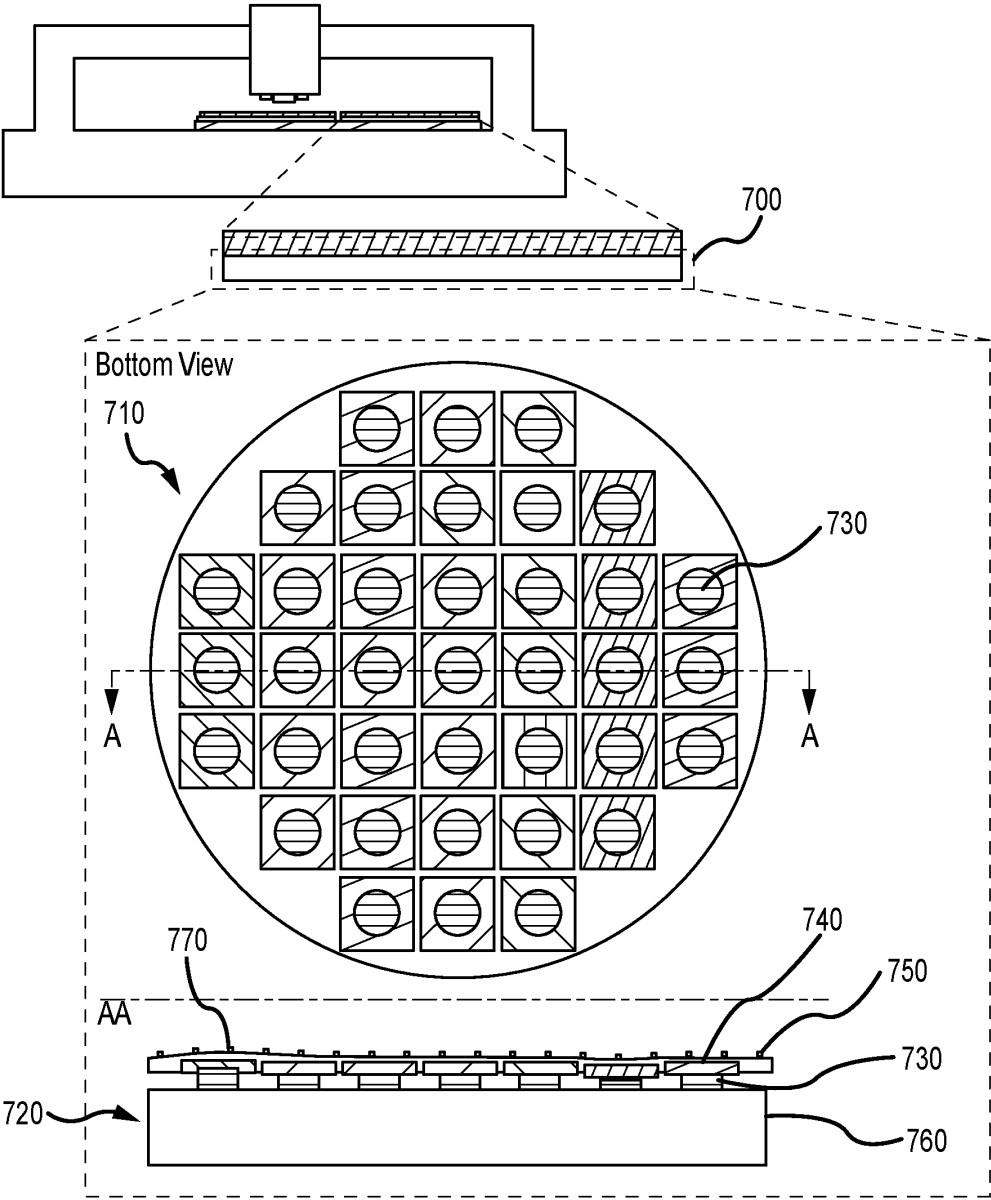


FIG.7

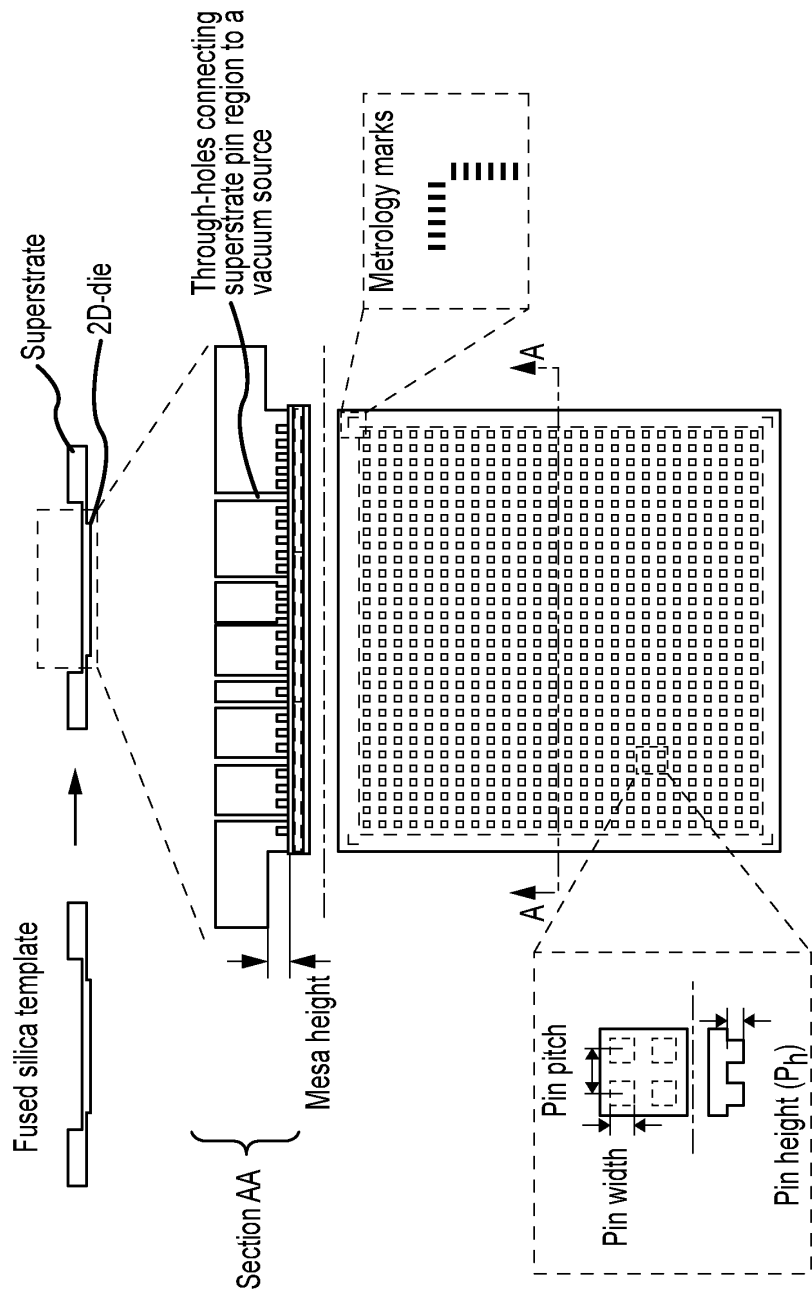


FIG.8

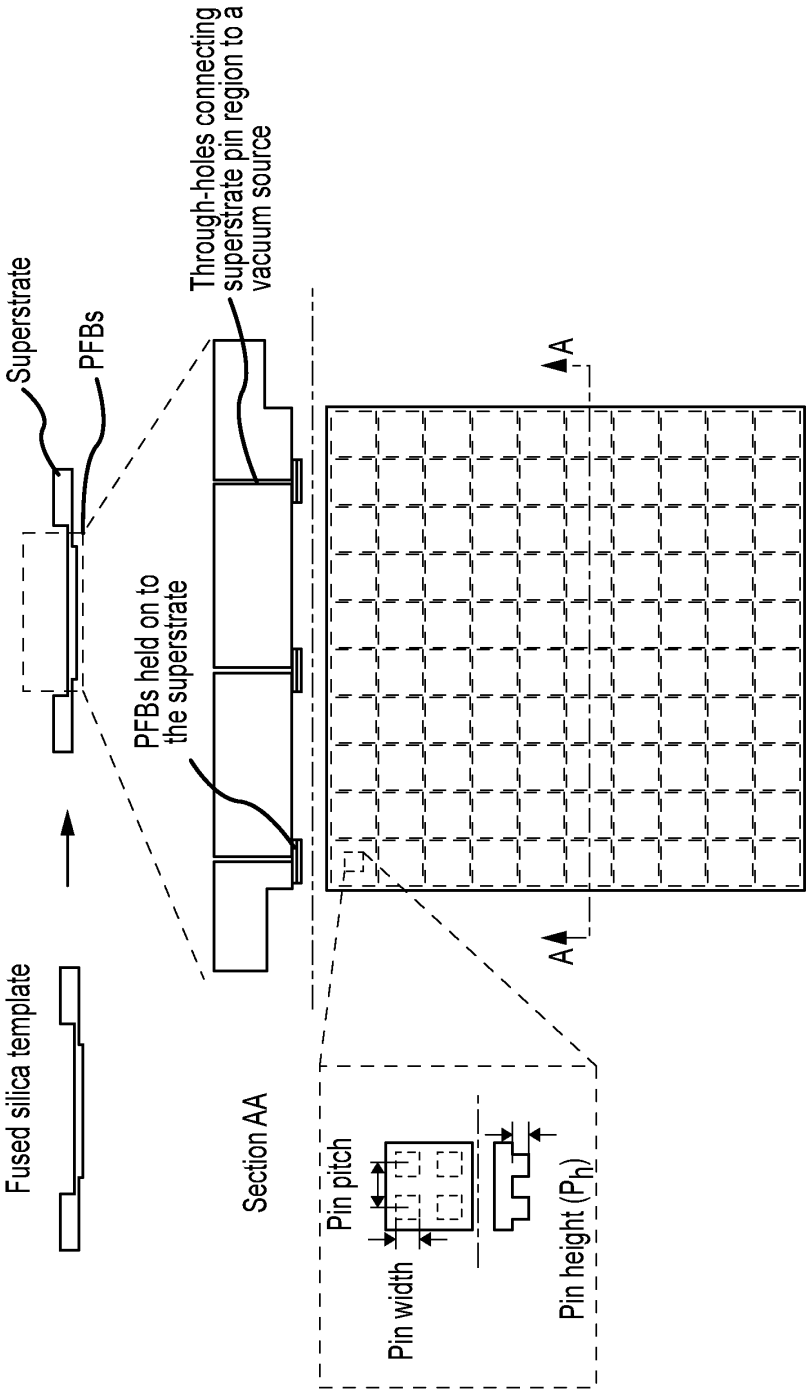


FIG.9

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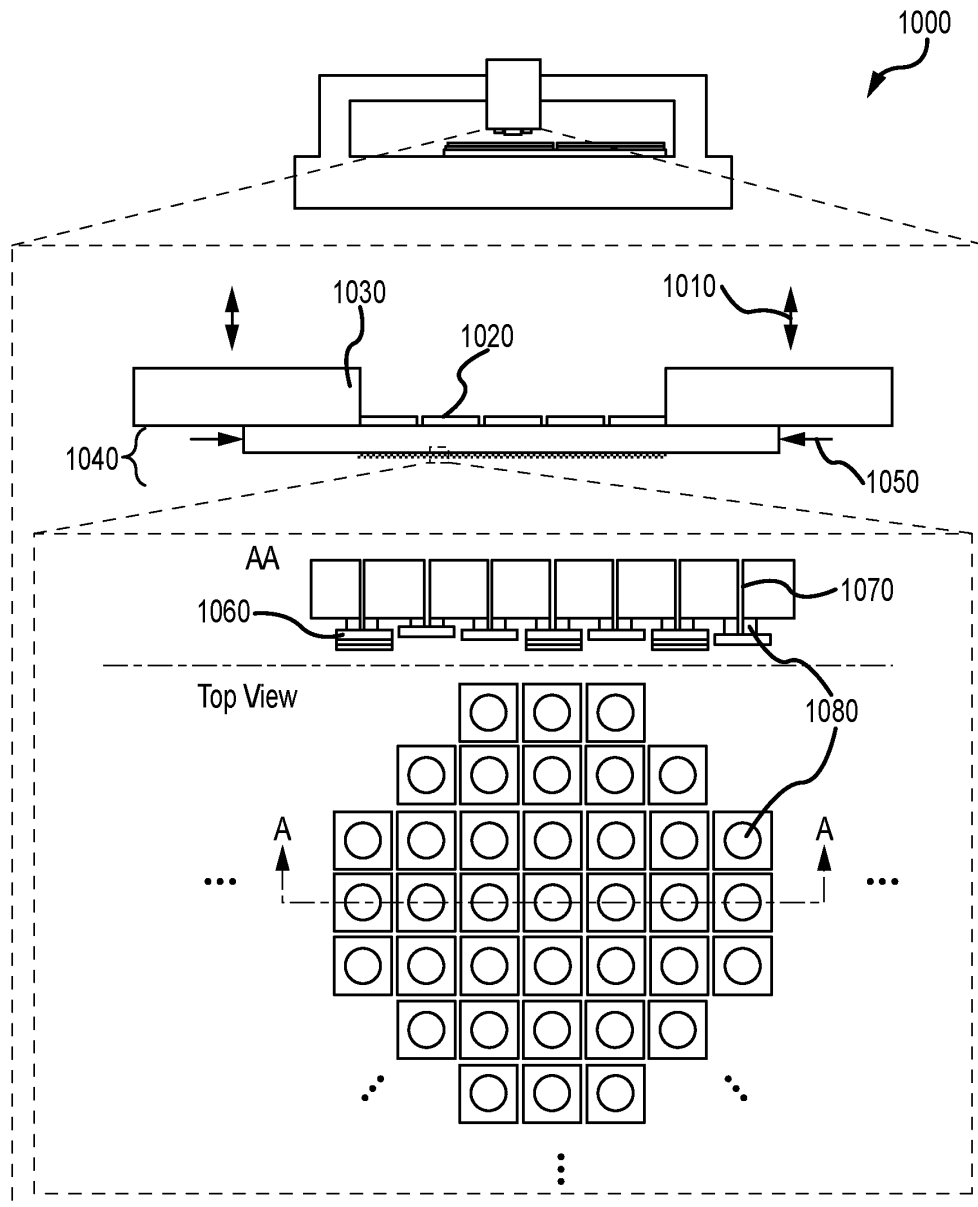


FIG. 10

1100

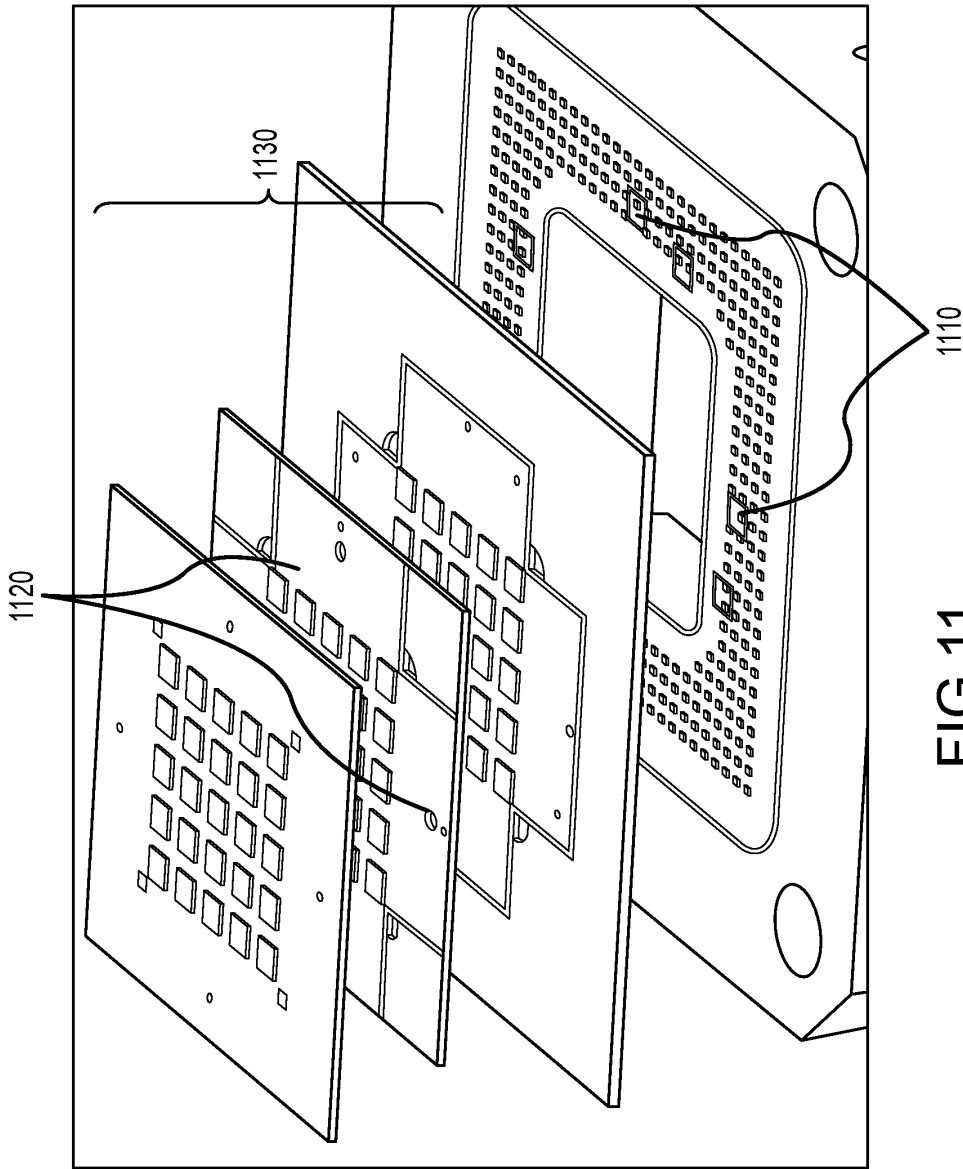


FIG.11

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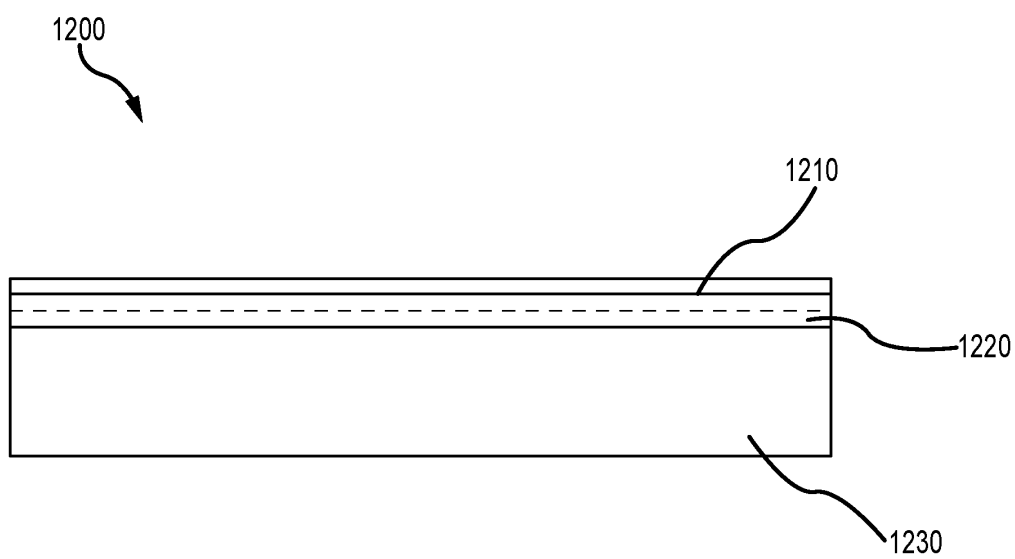


FIG.12

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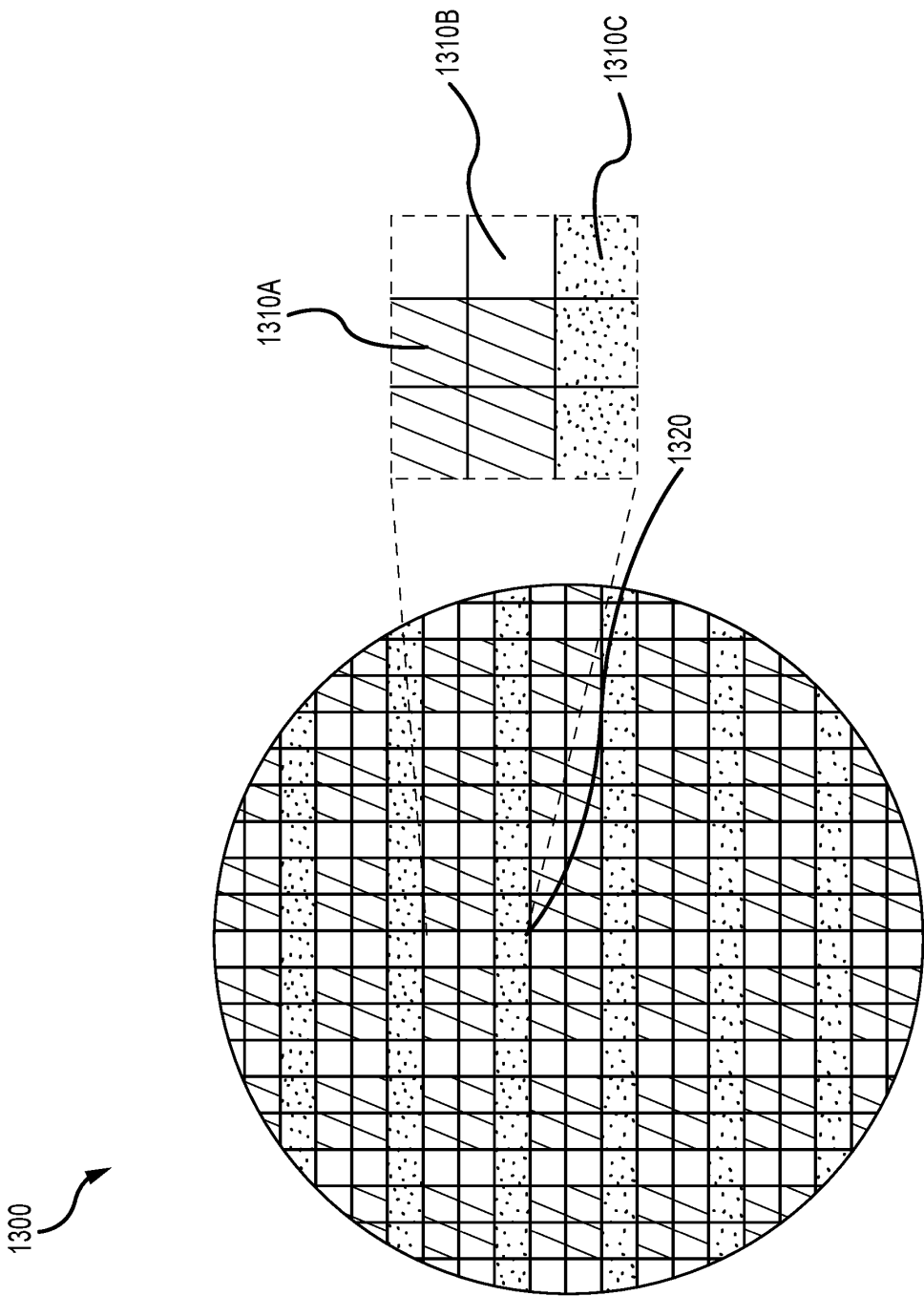


FIG.13

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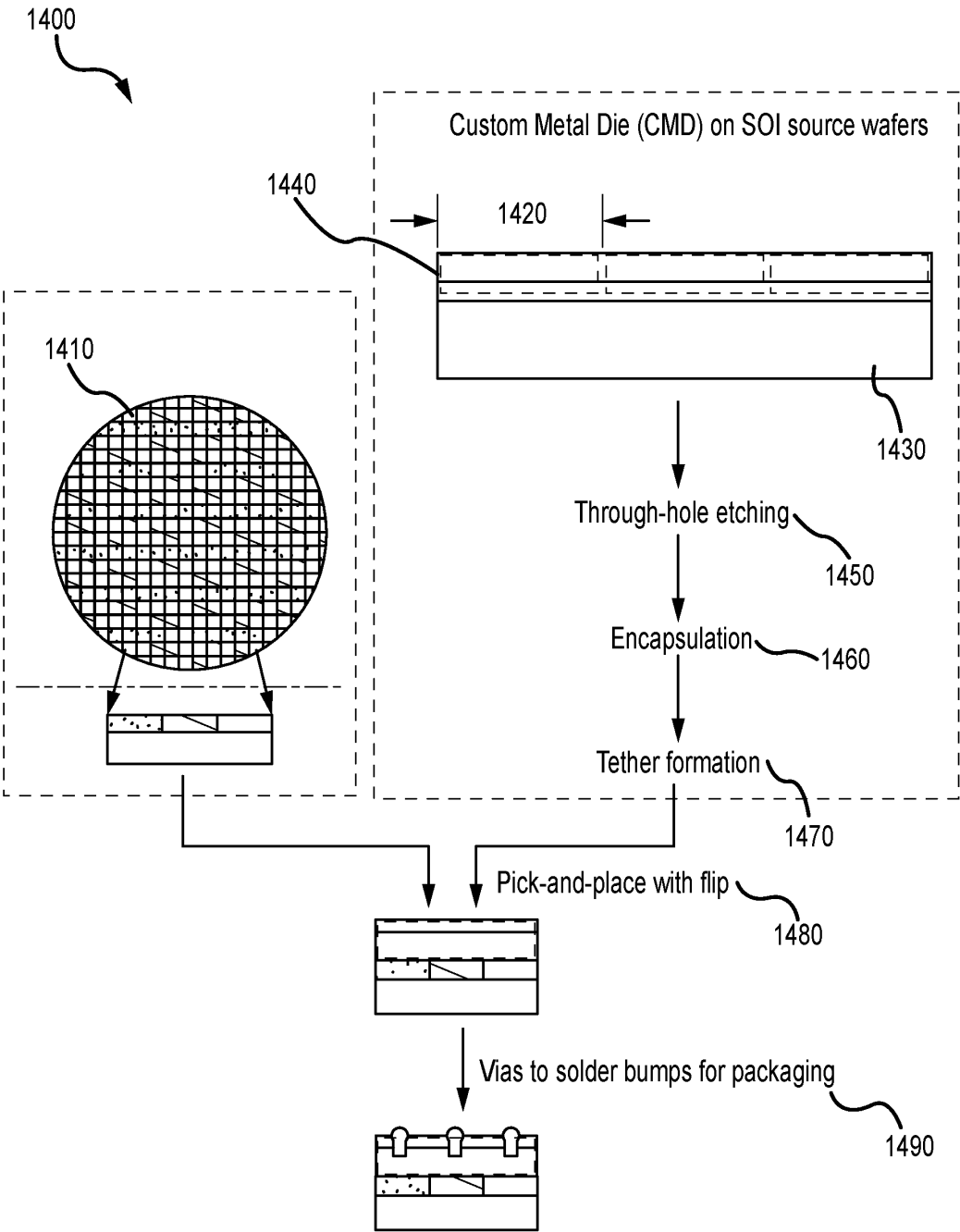
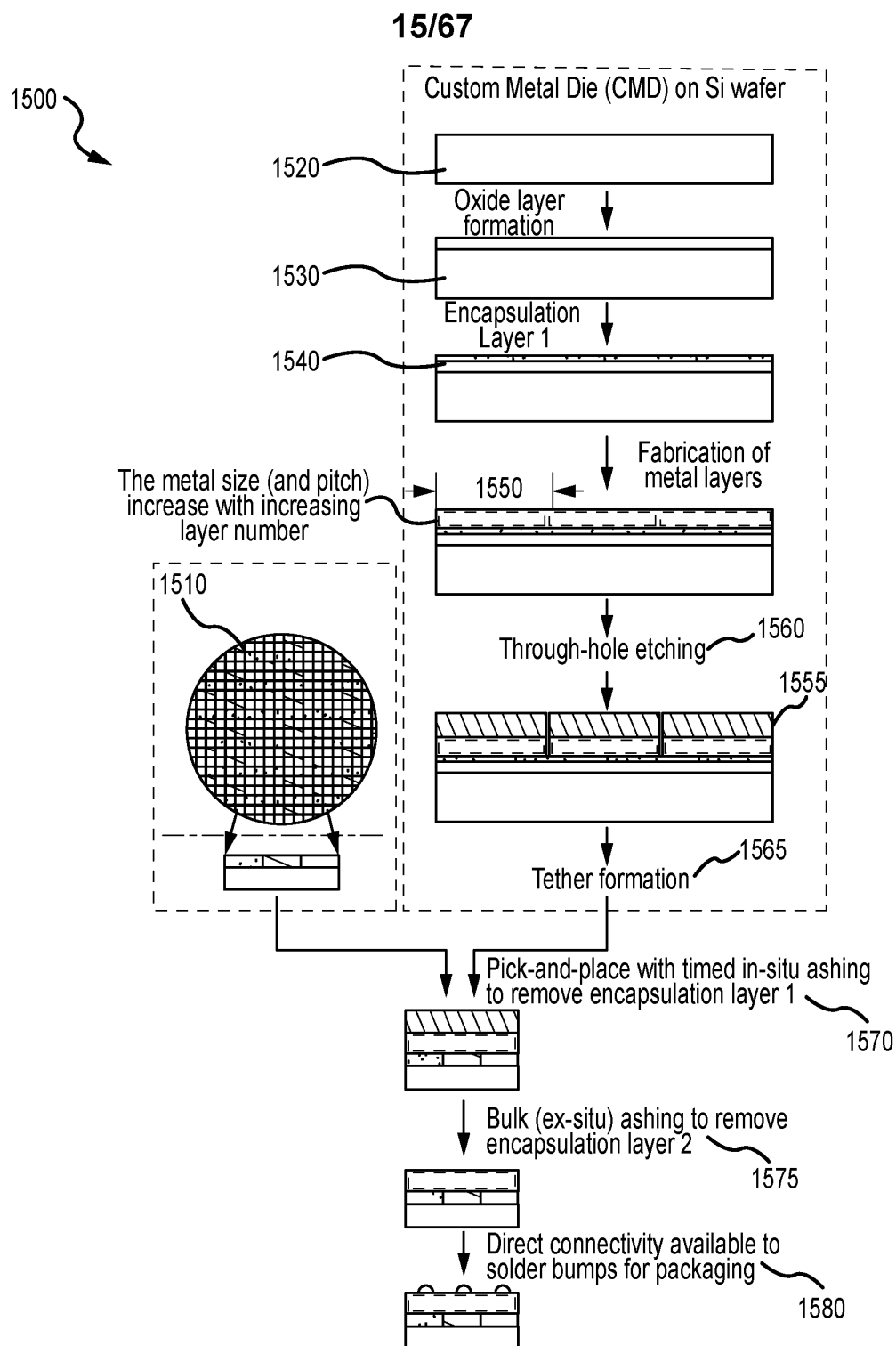


FIG.14

**FIG.15**

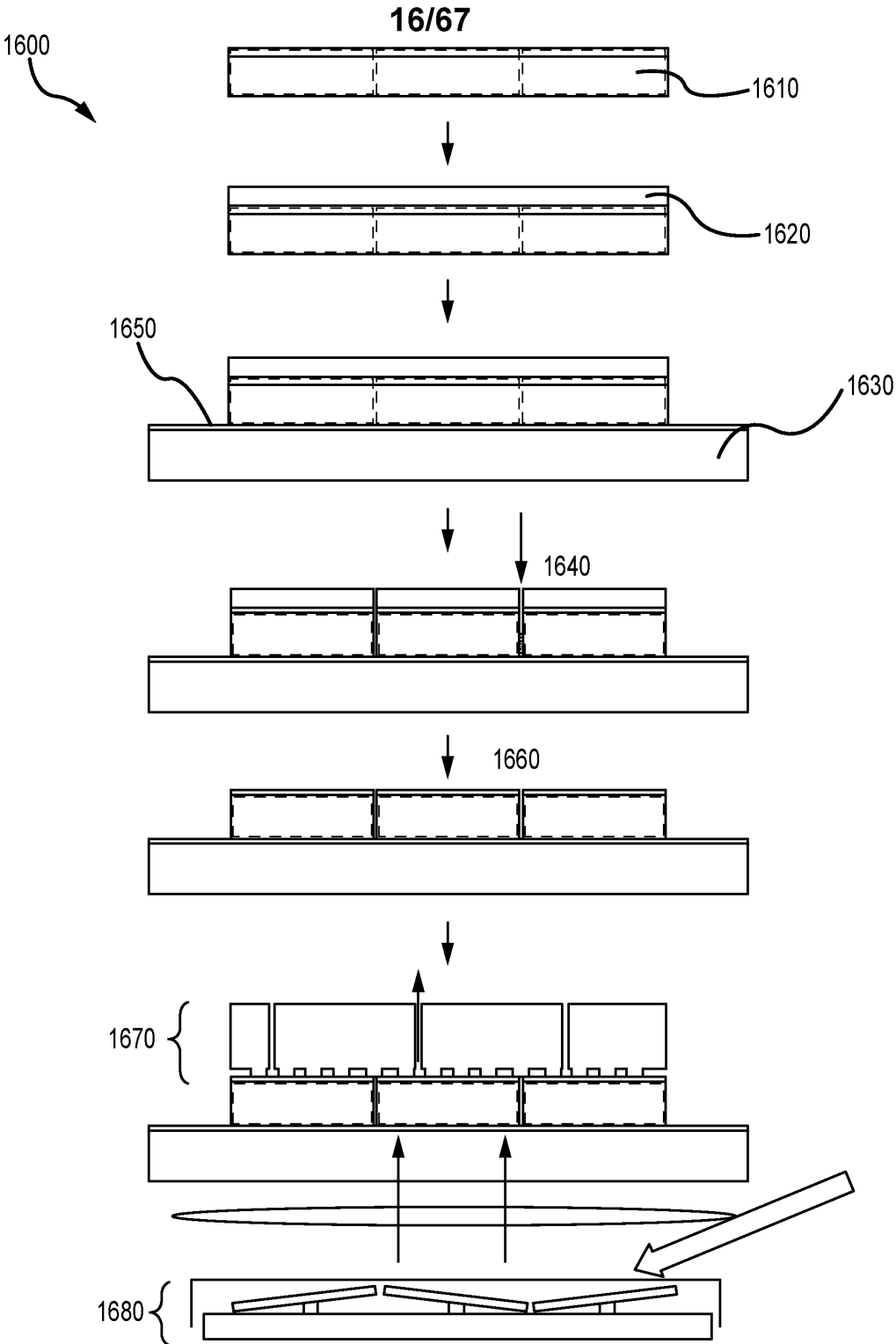


FIG.16

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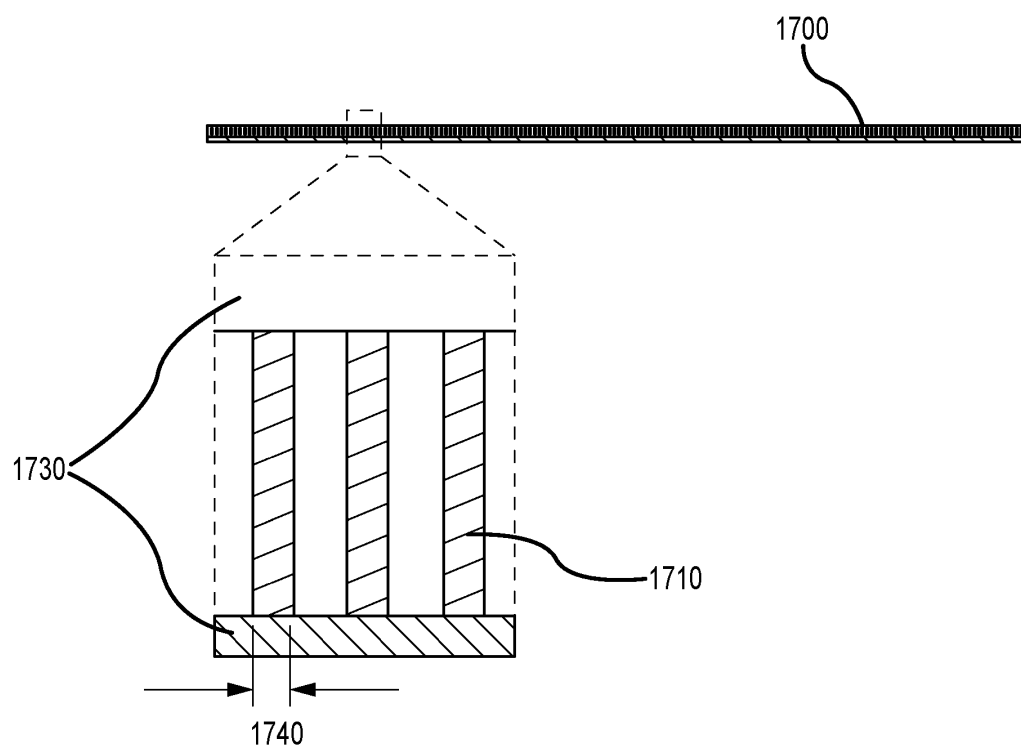


FIG.17

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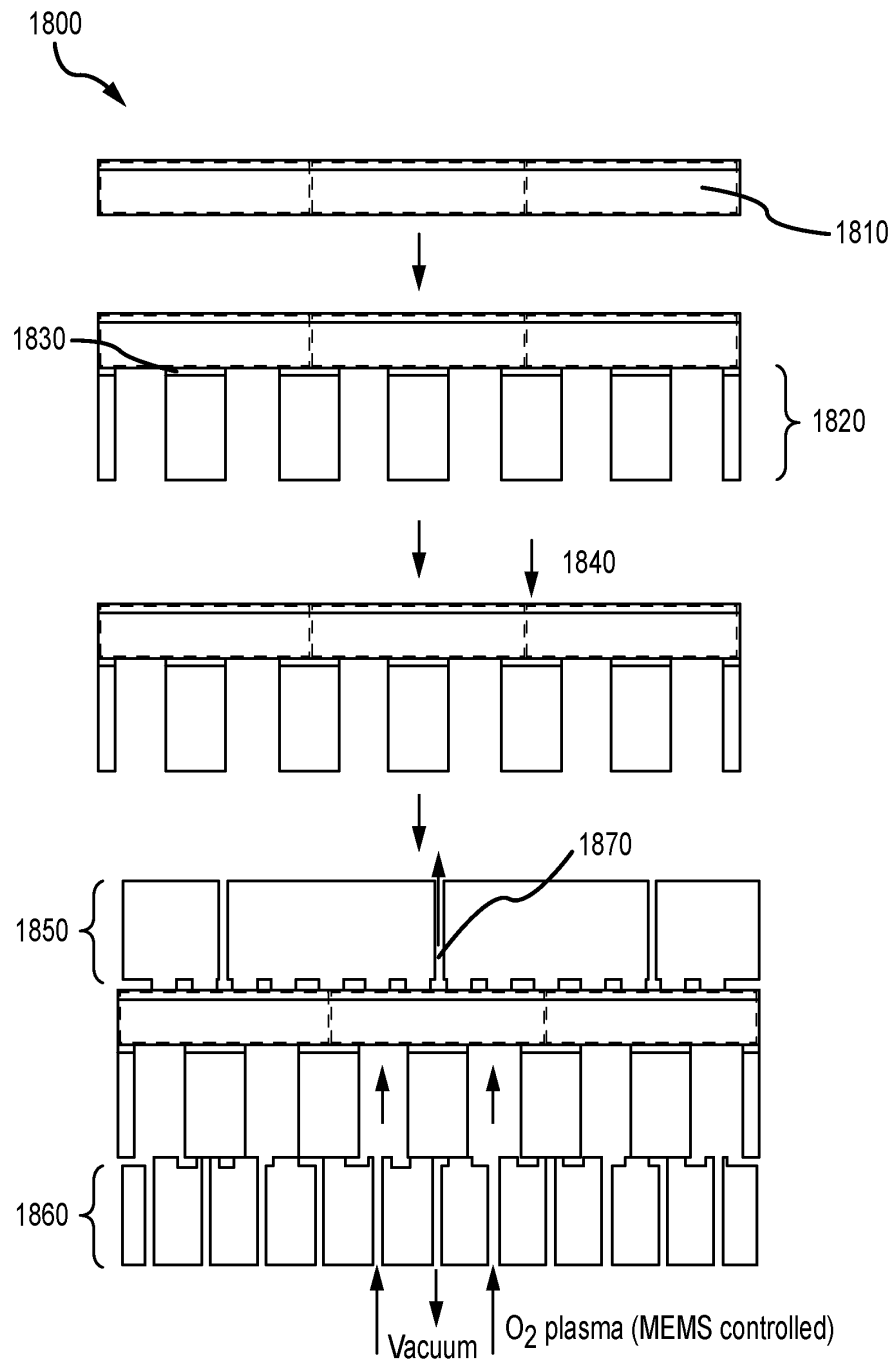


FIG.18

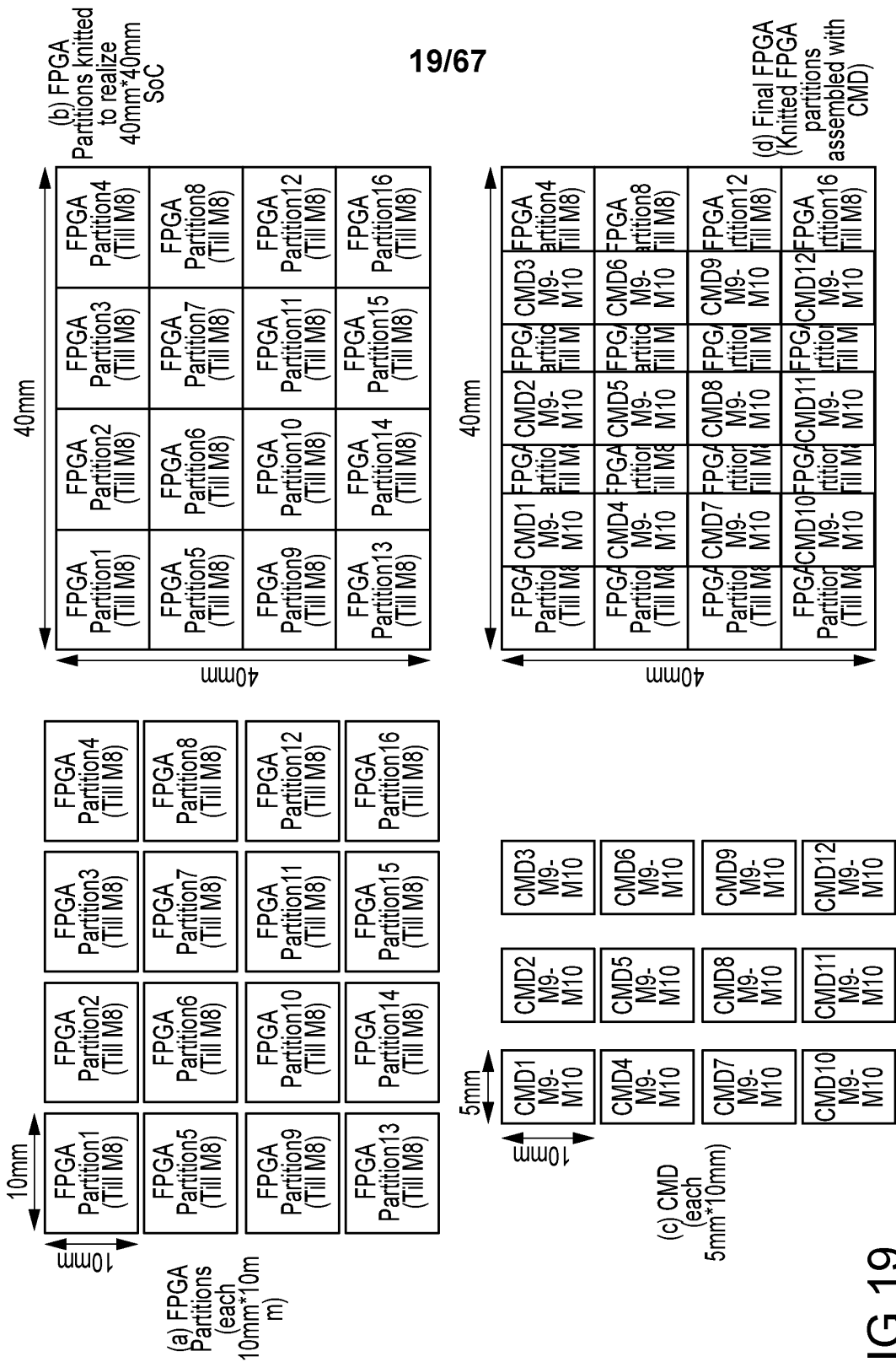


FIG.19

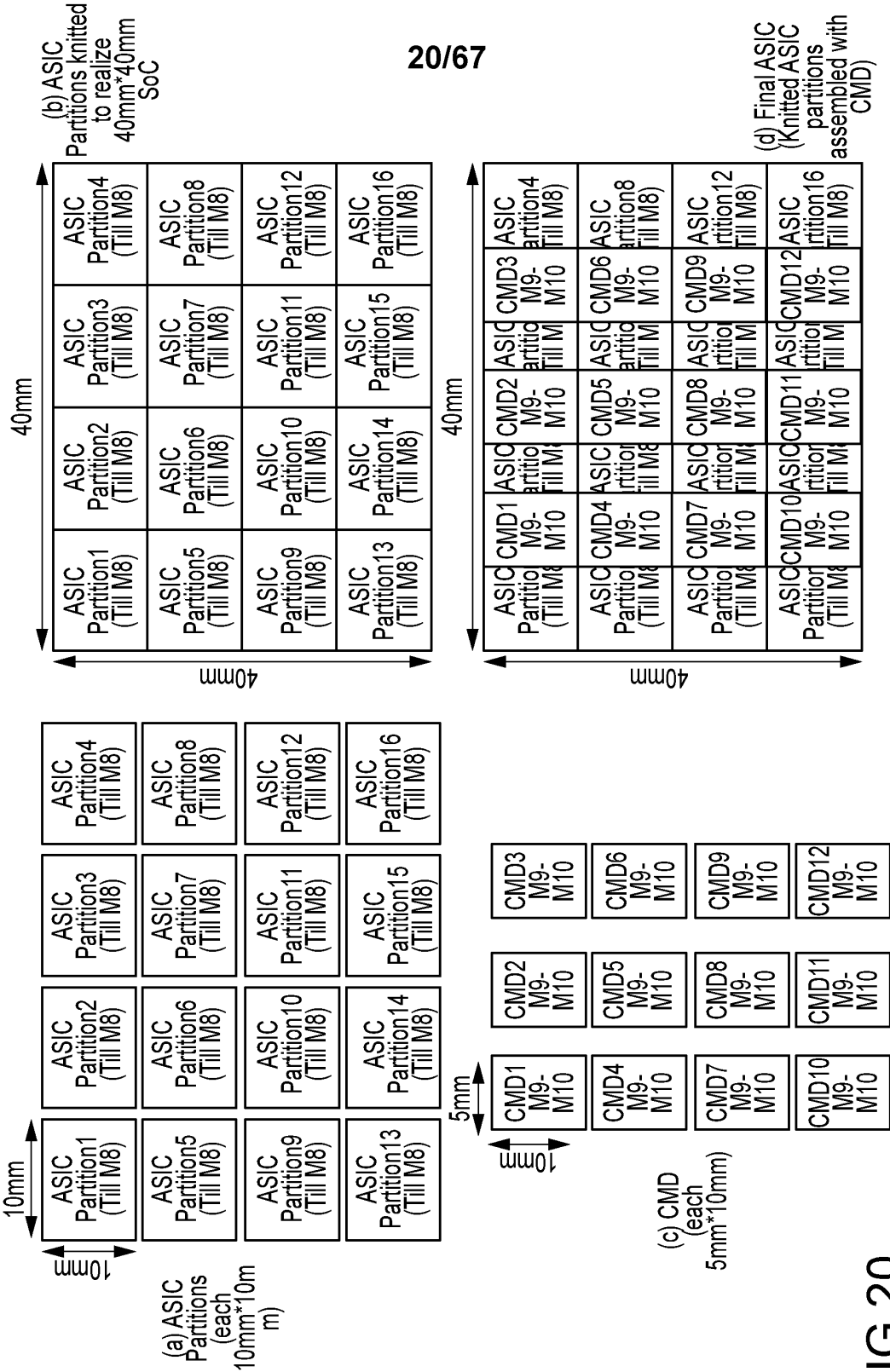


FIG.20

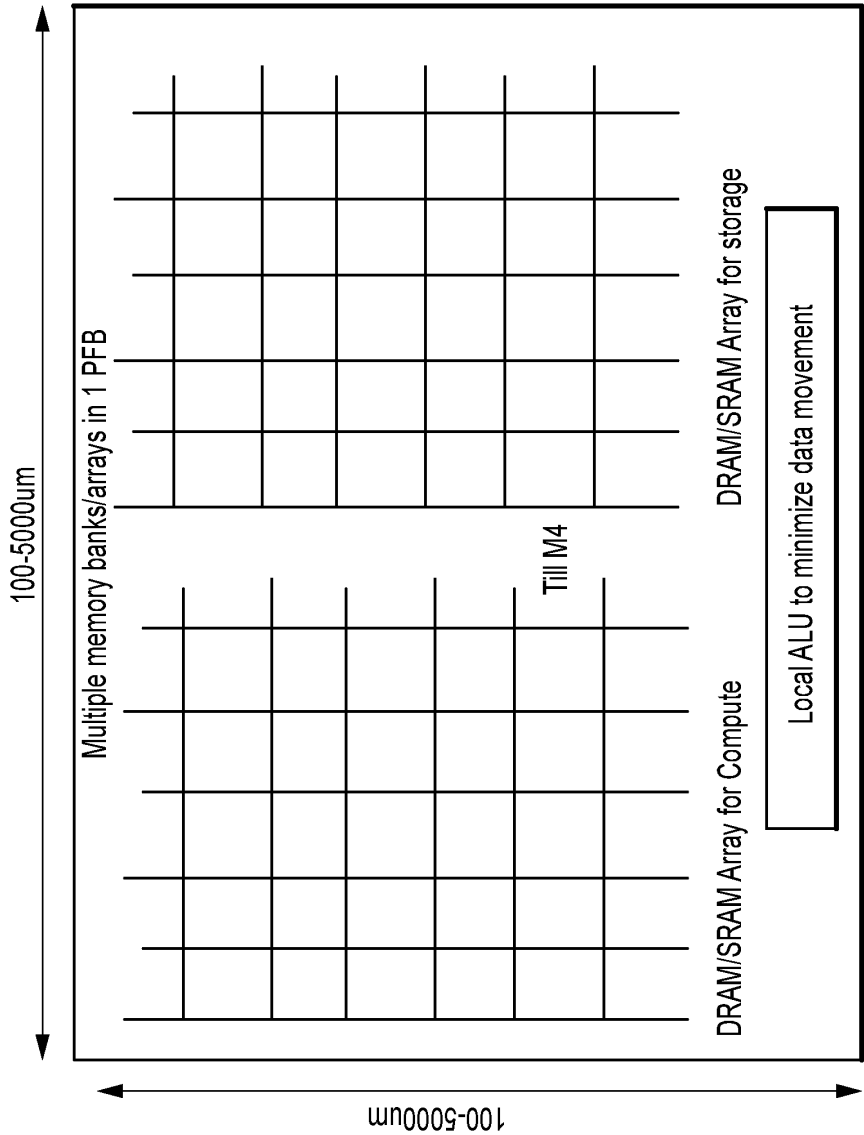


FIG.21

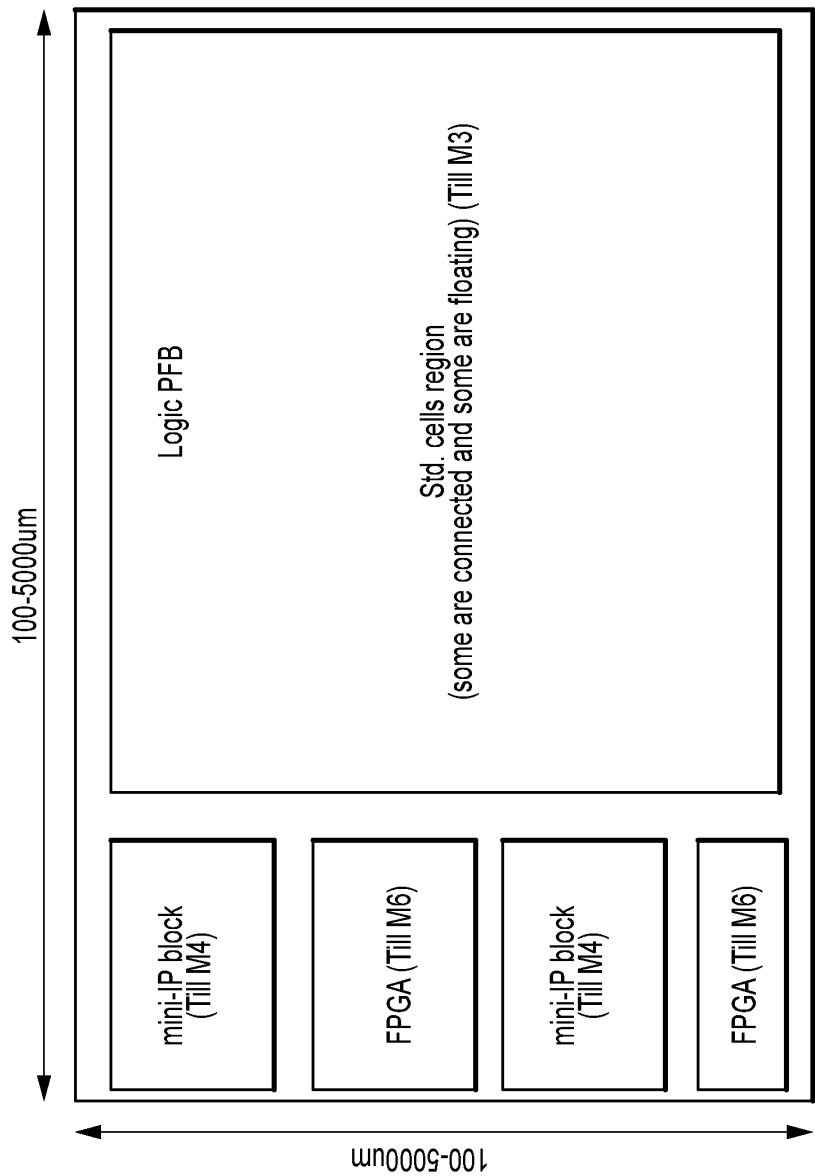


FIG.22

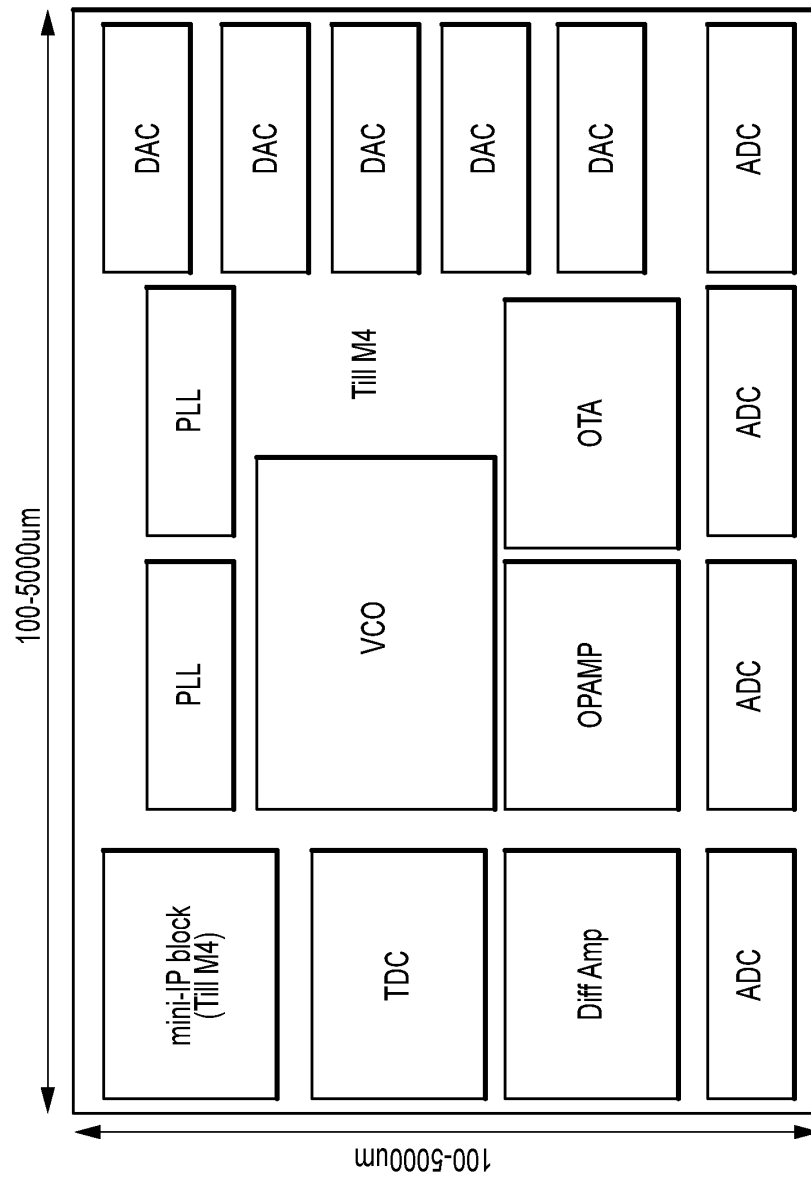
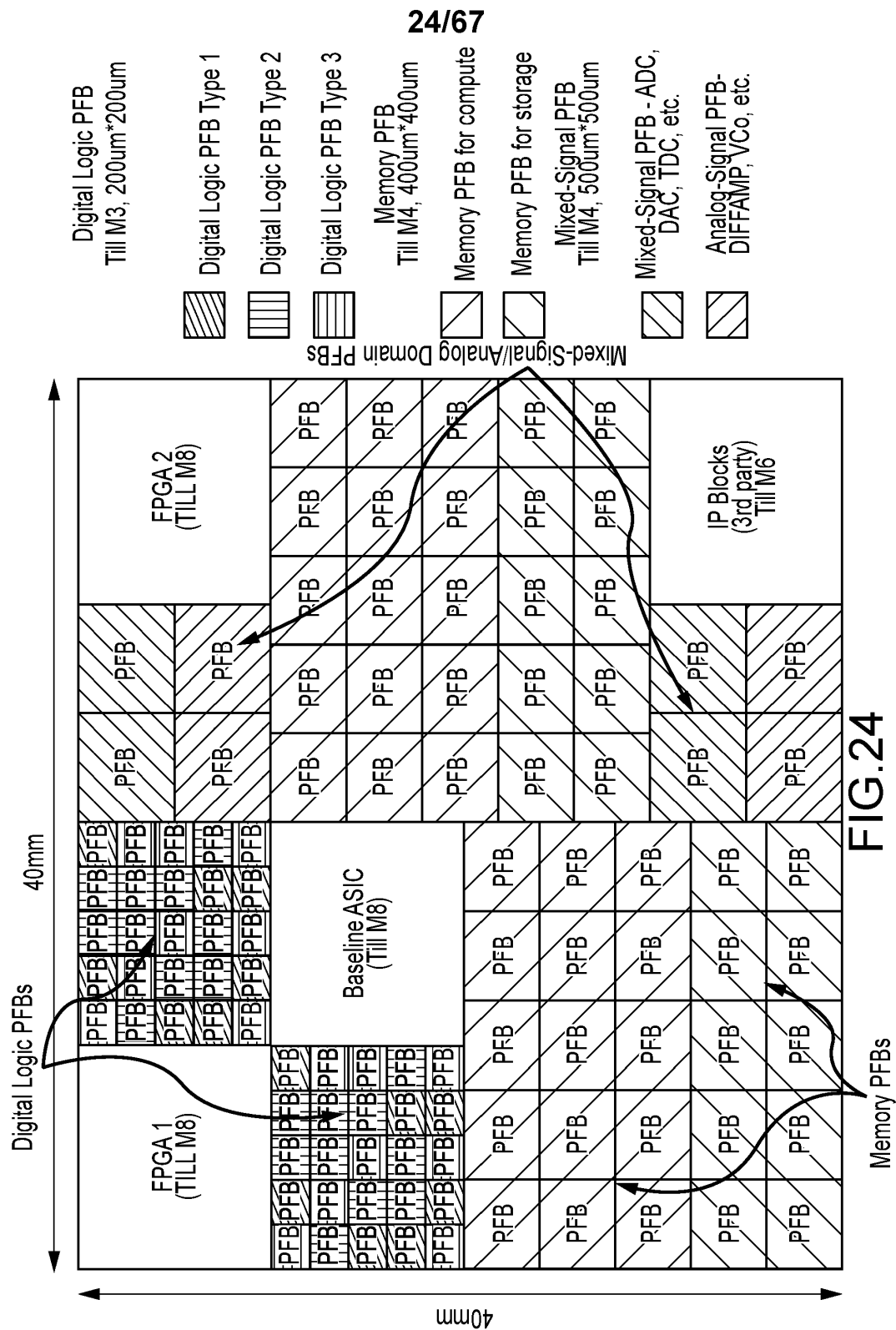
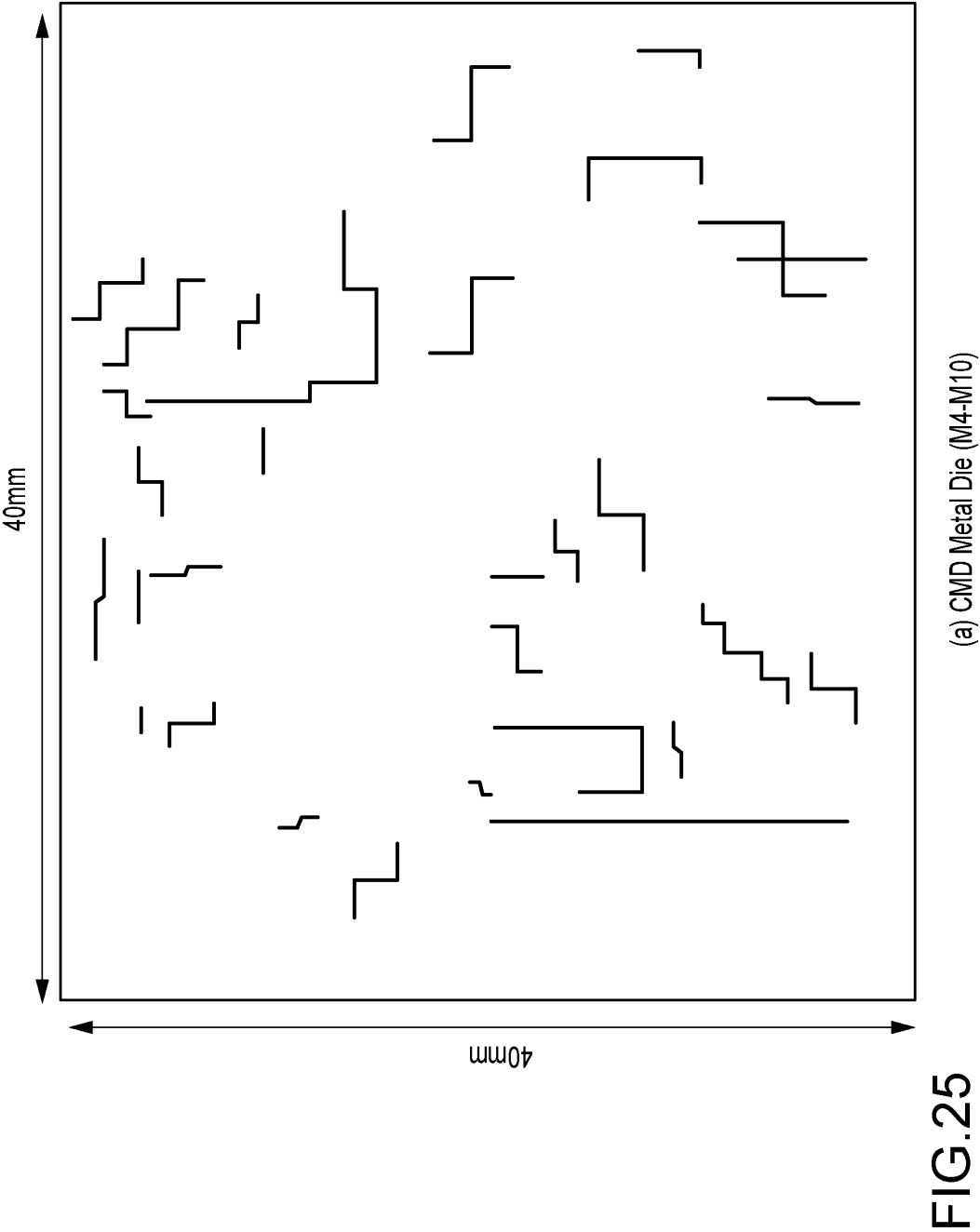
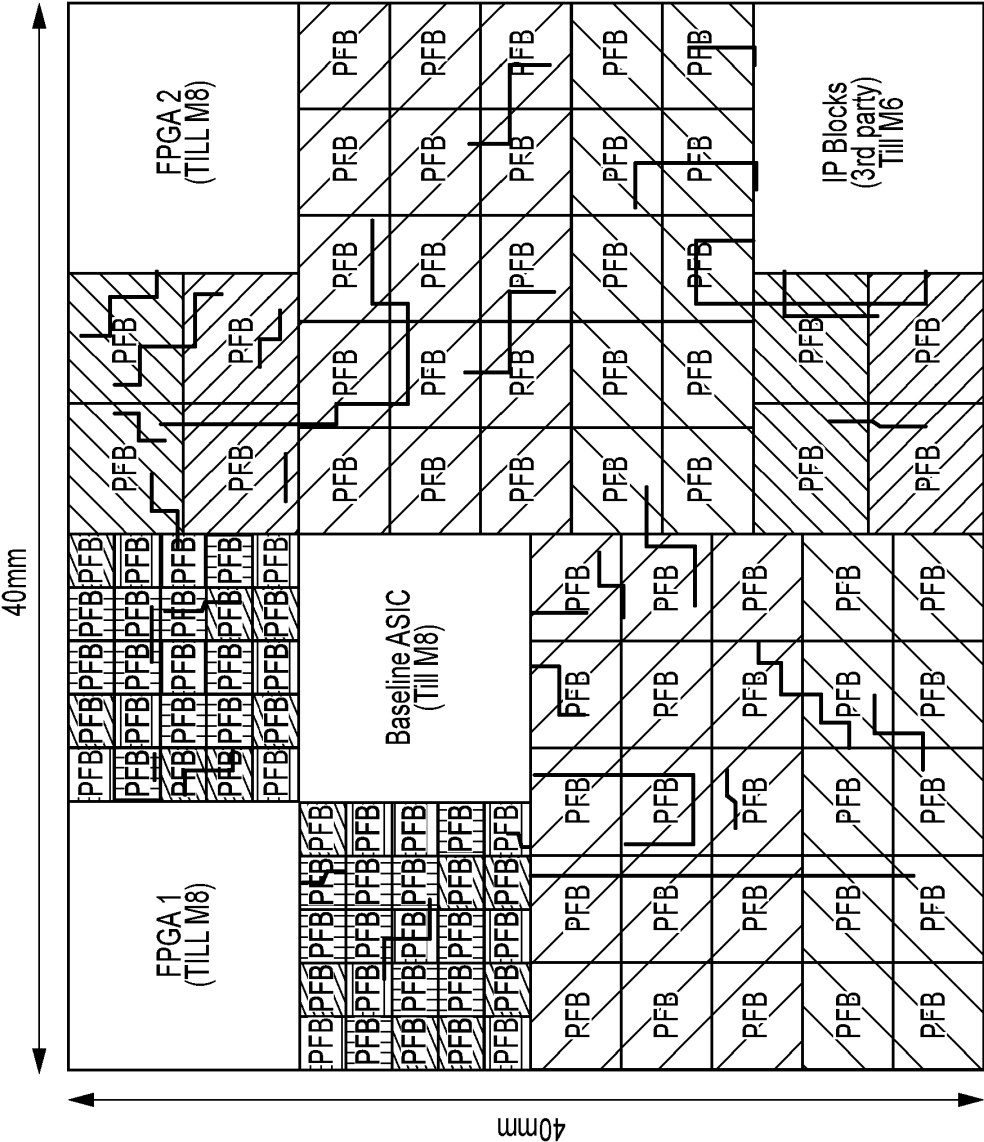


FIG. 23







(b) Assembled CMD with knitted PFB to realize final SoC

FIG.25
CONTINUED

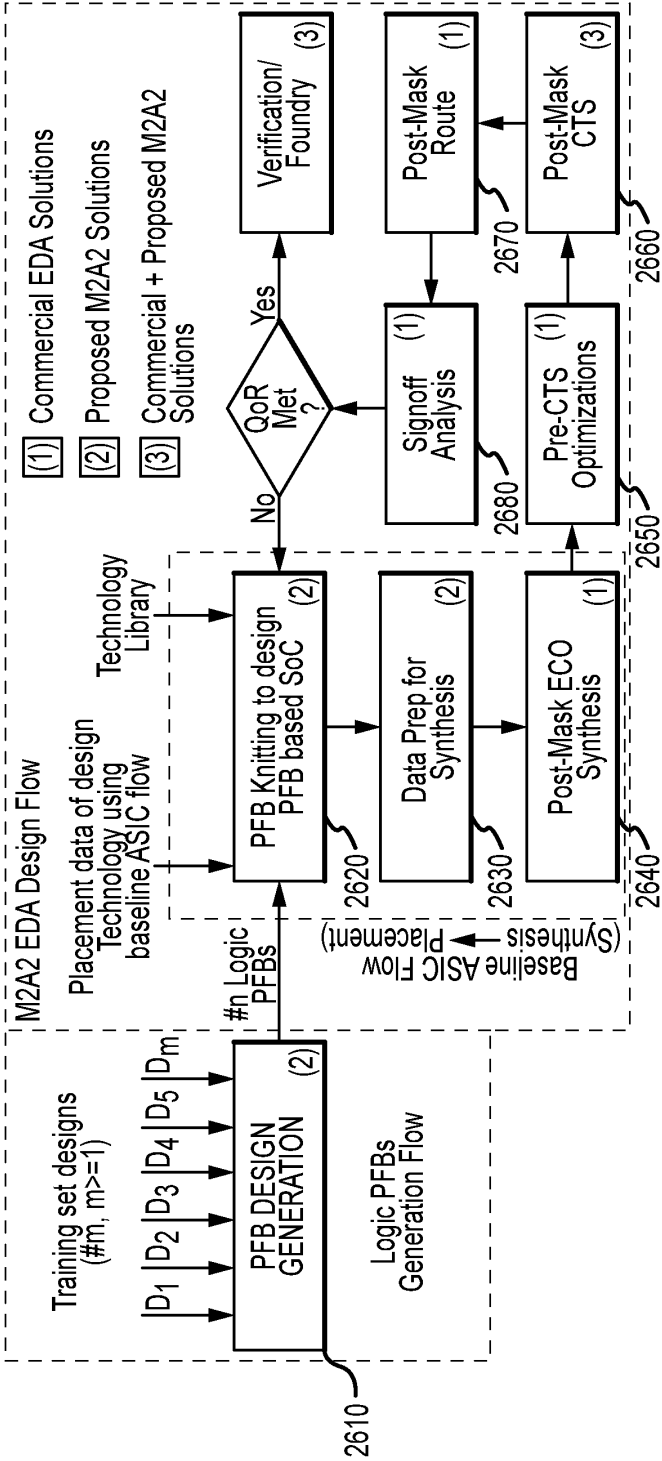


FIG.26

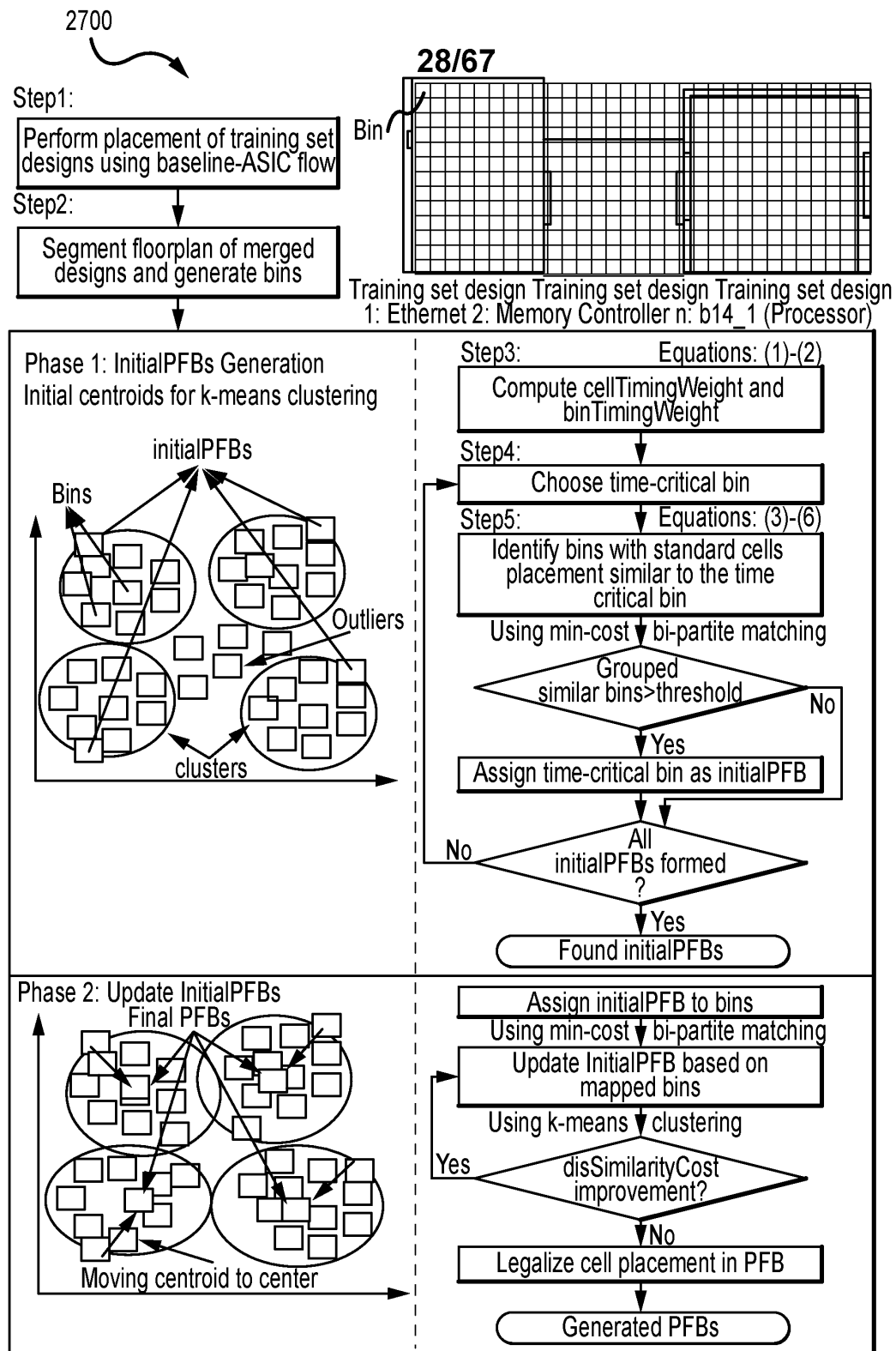


FIG.27

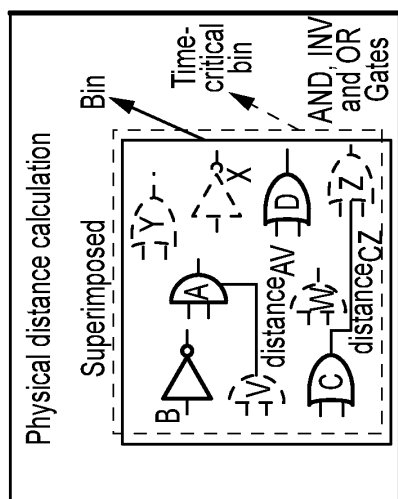


FIG. 28B

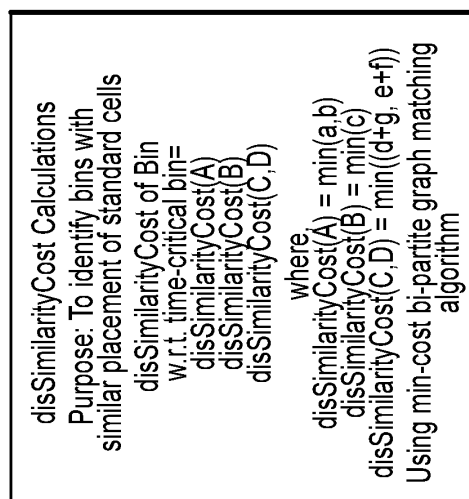


FIG. 28D

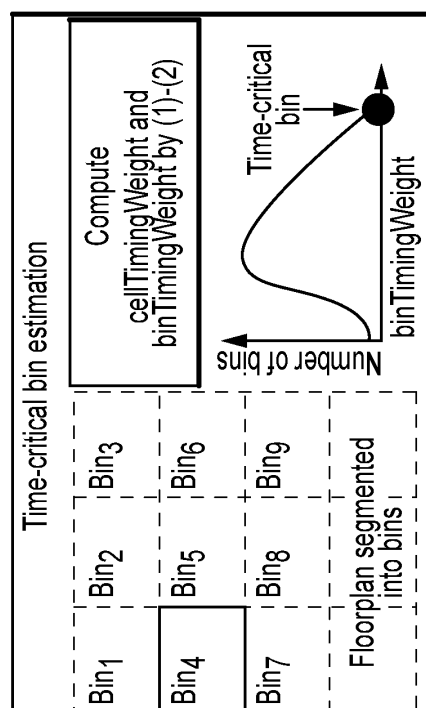


FIG. 28A

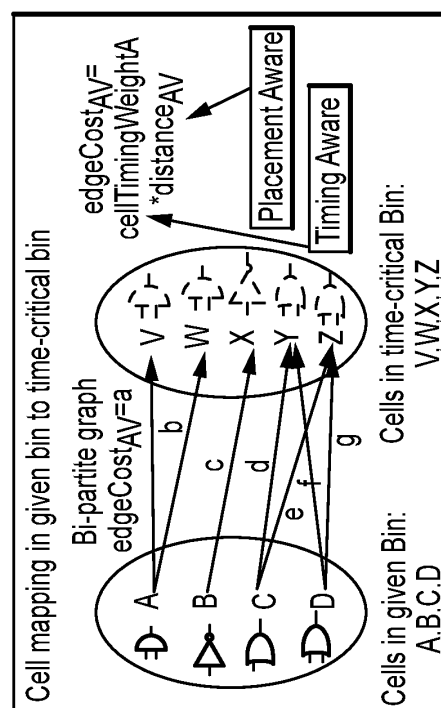
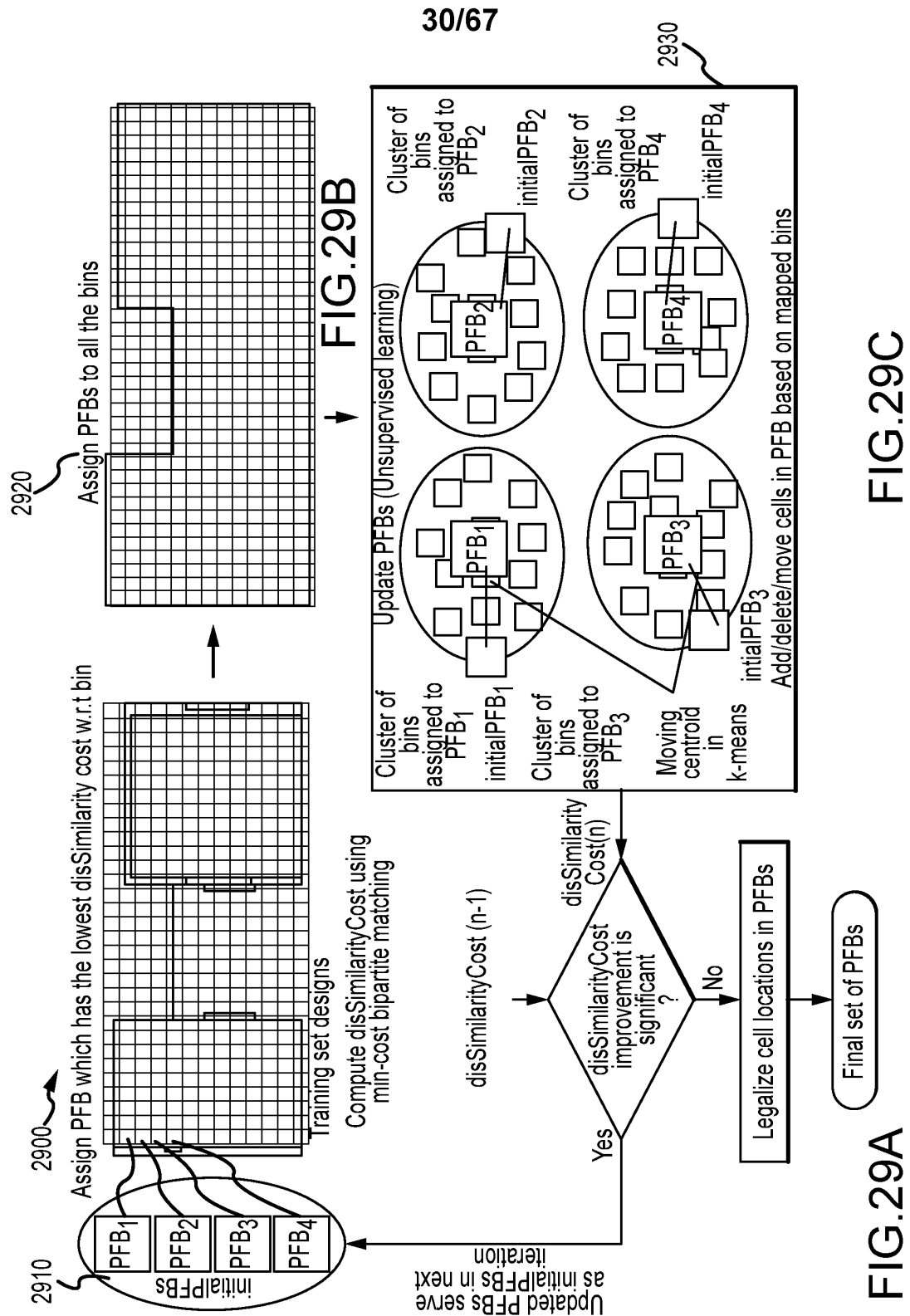
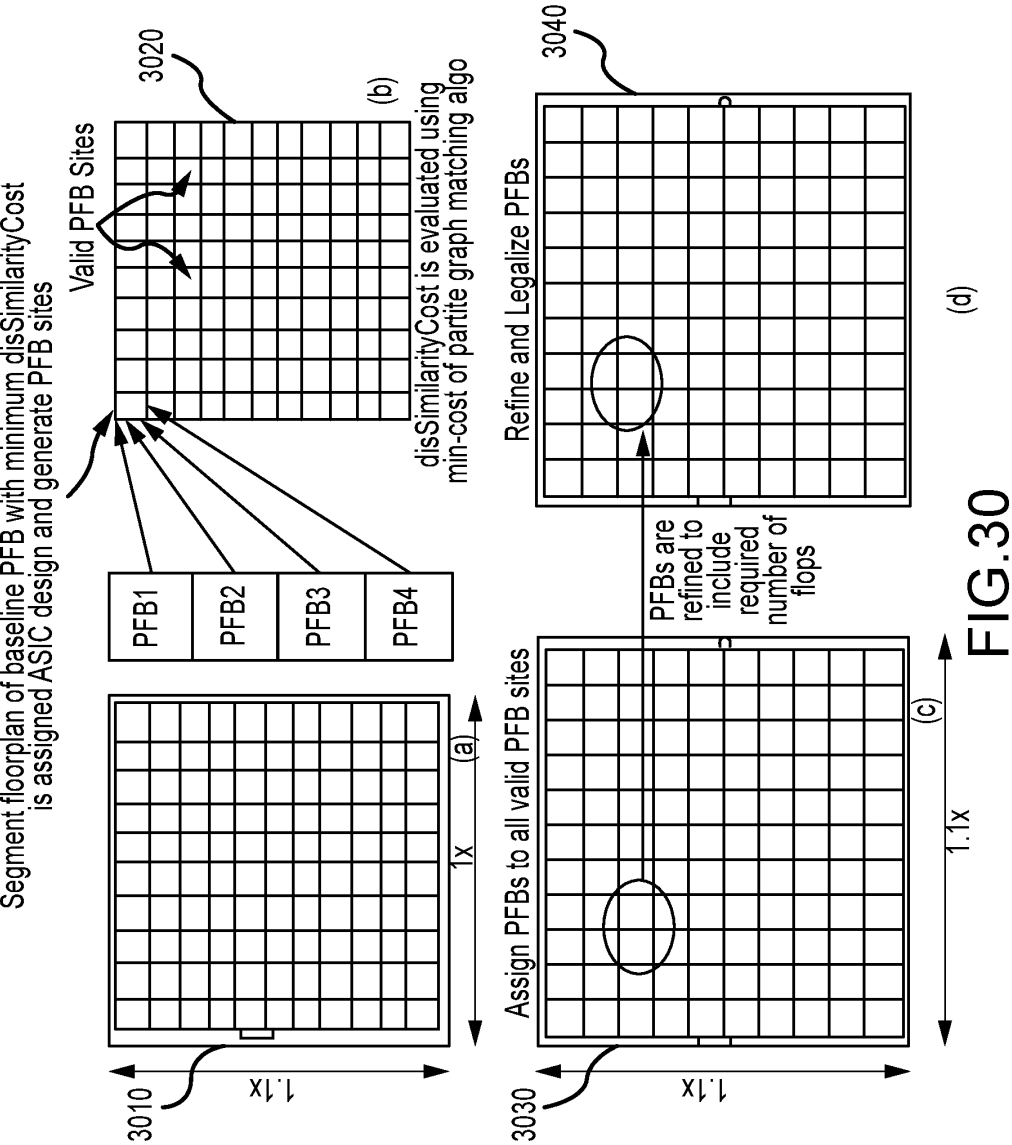


FIG. 28C





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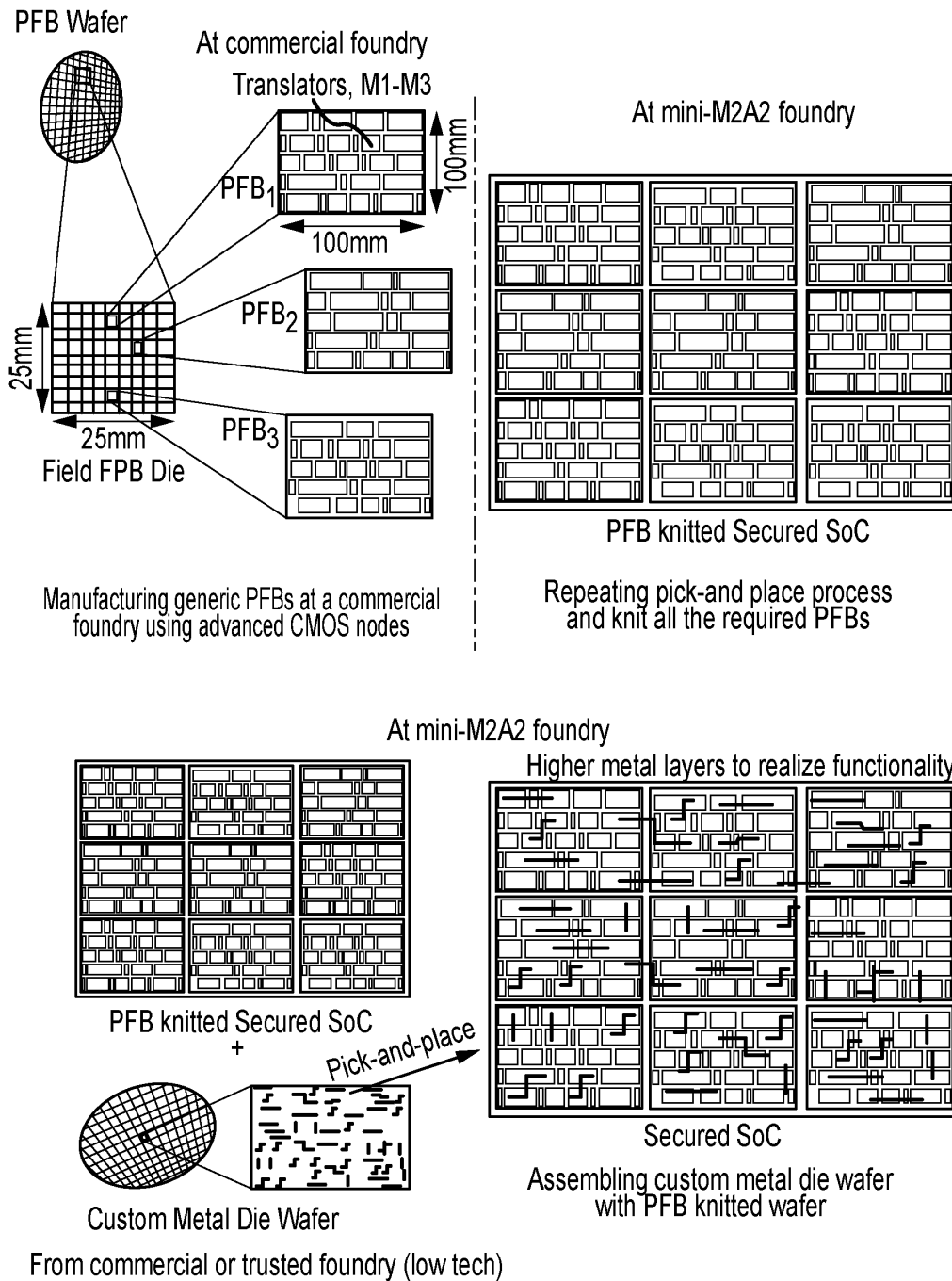


FIG.31

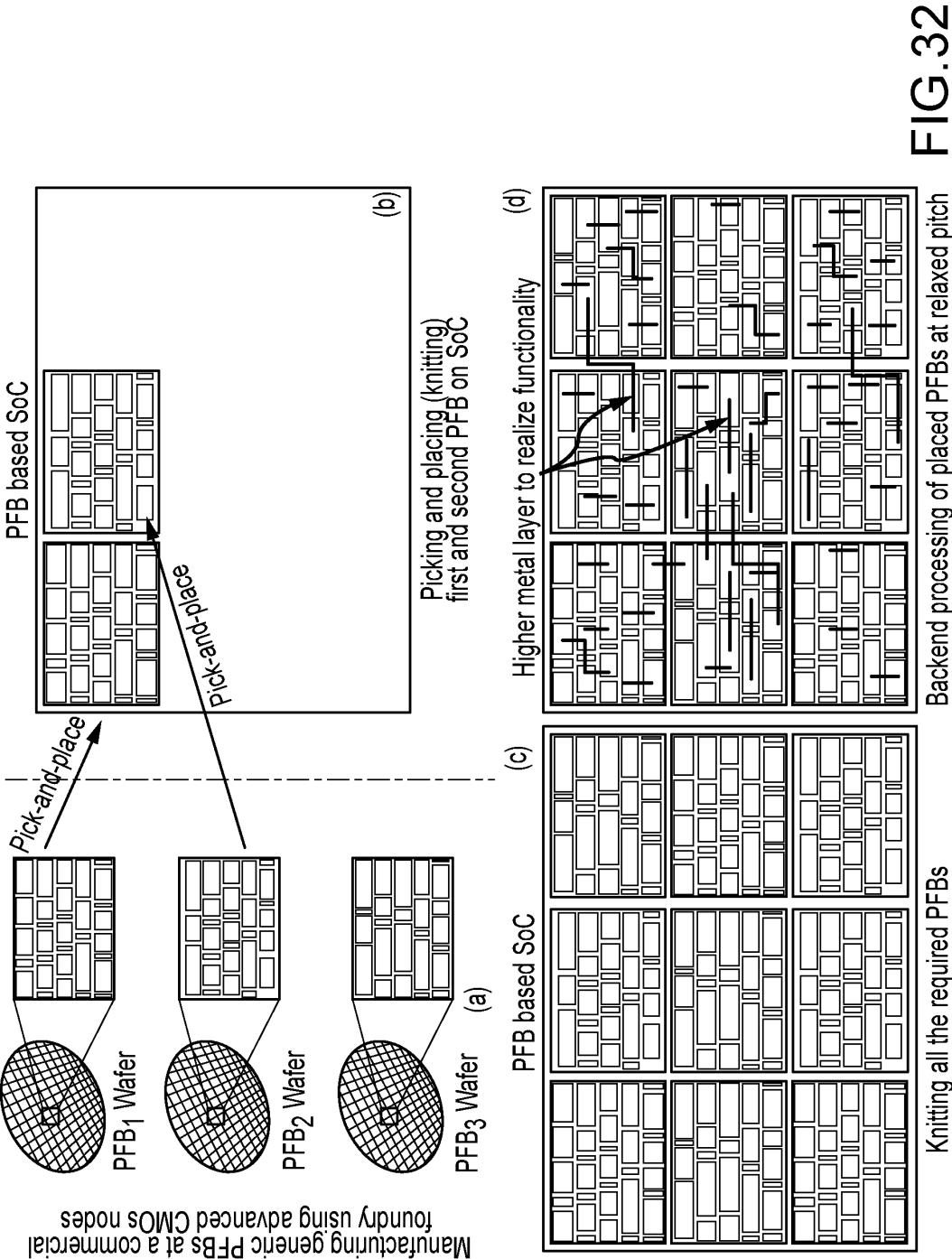


FIG. 32

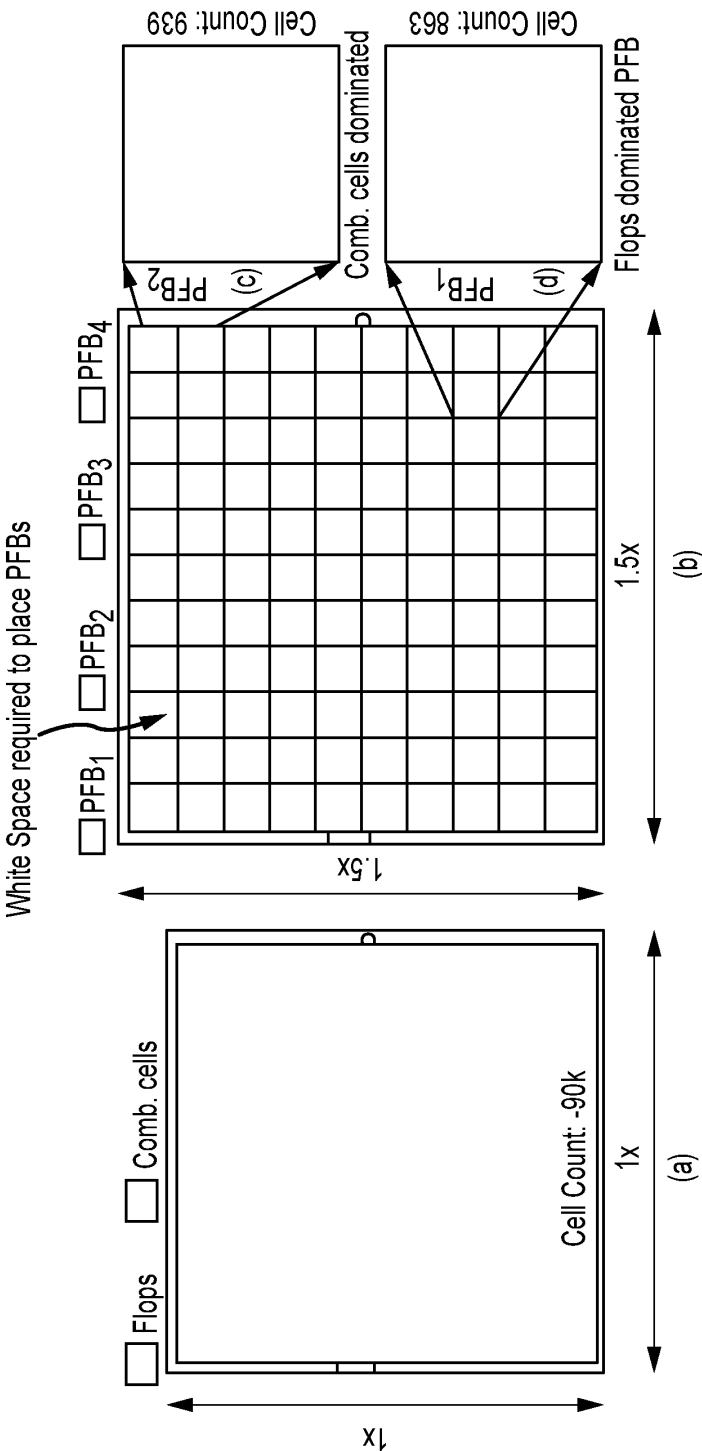


FIG.33

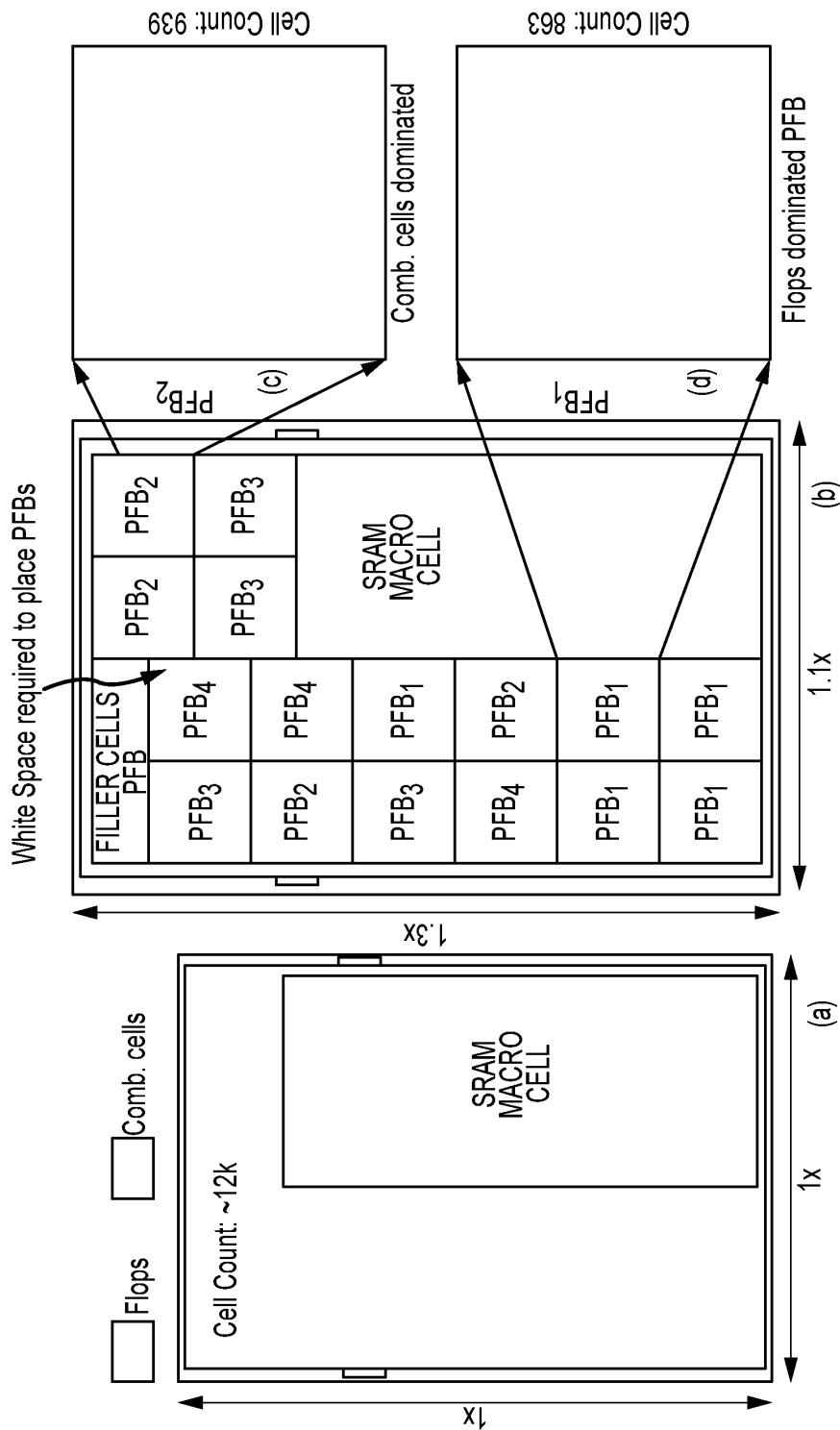


FIG. 34

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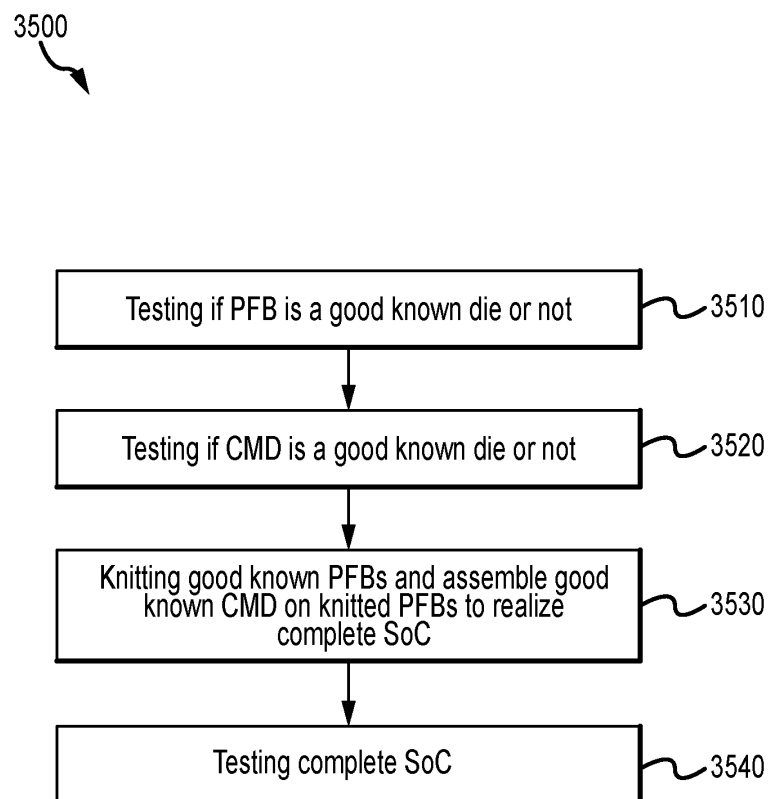
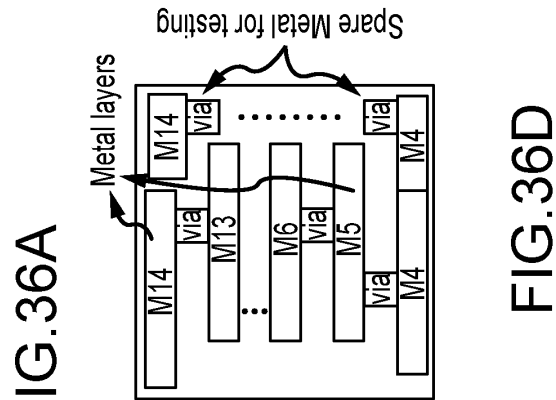
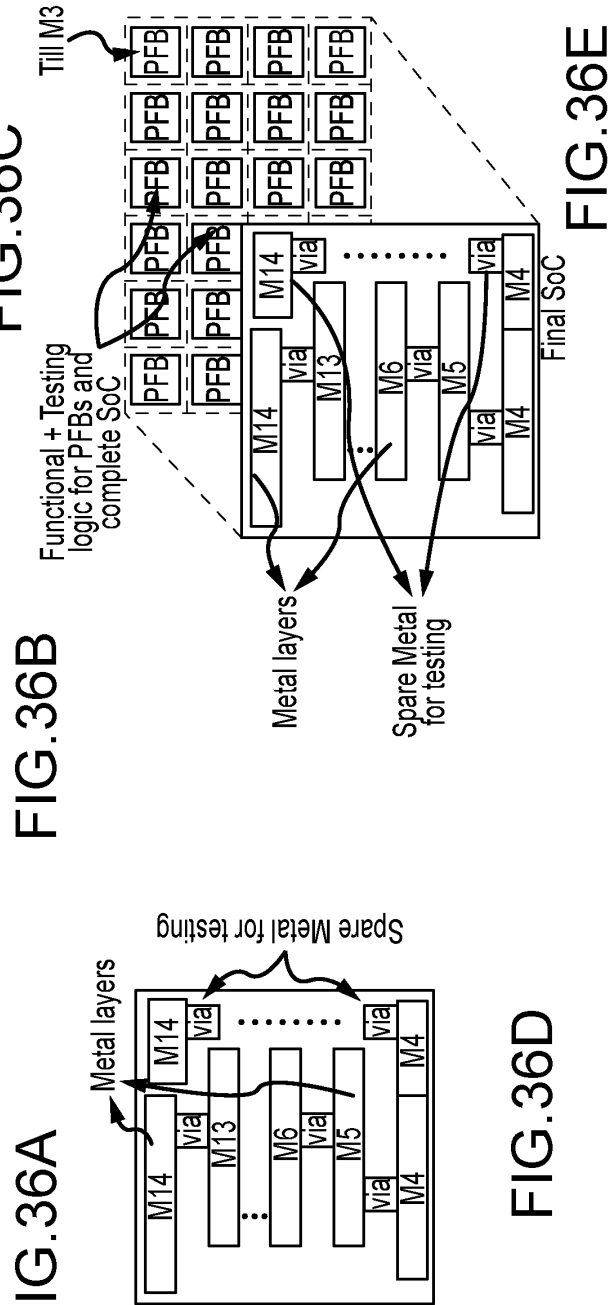
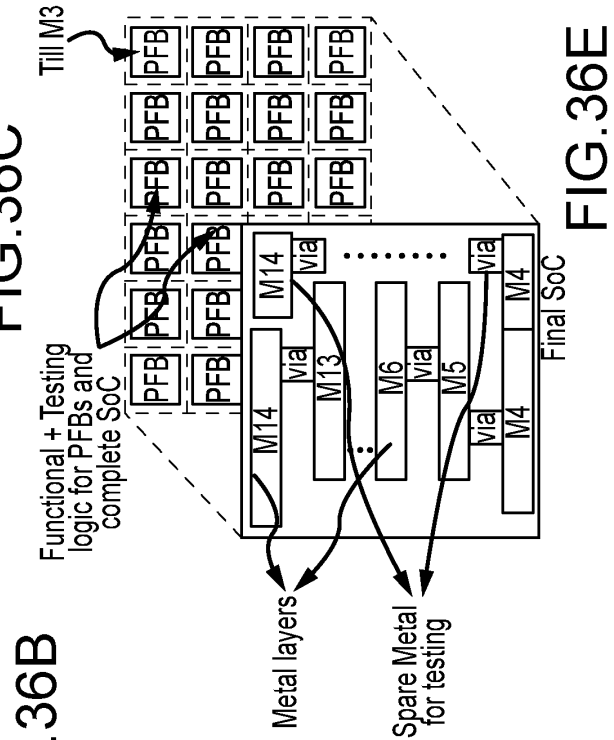
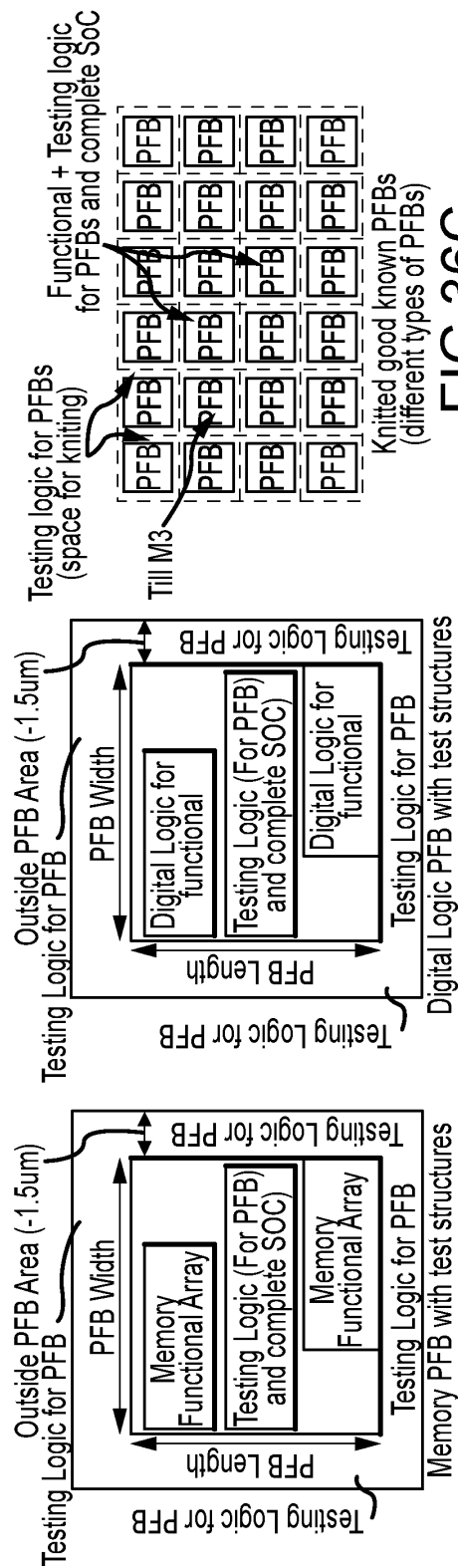


FIG.35

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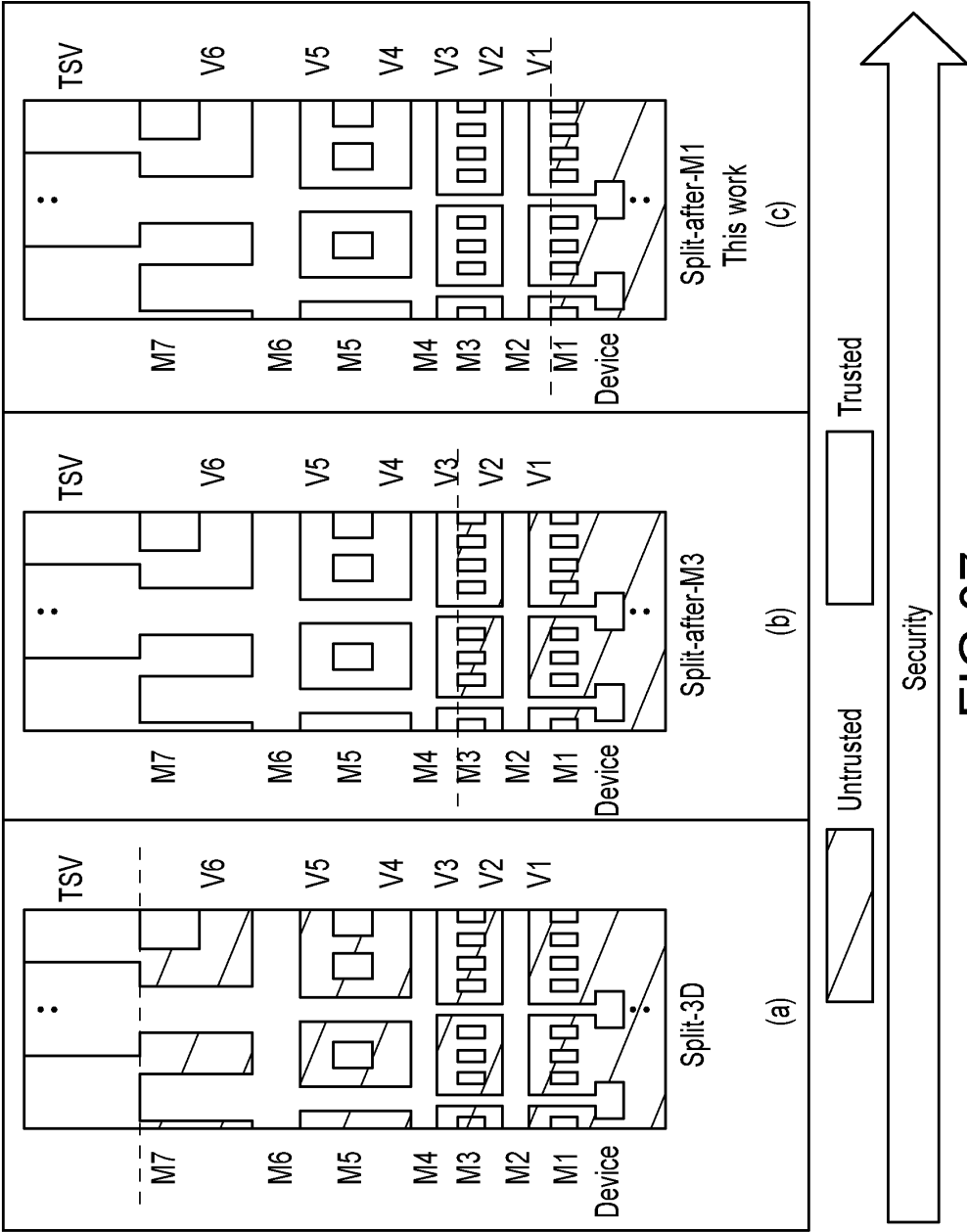


FIG.37

3700 ↗

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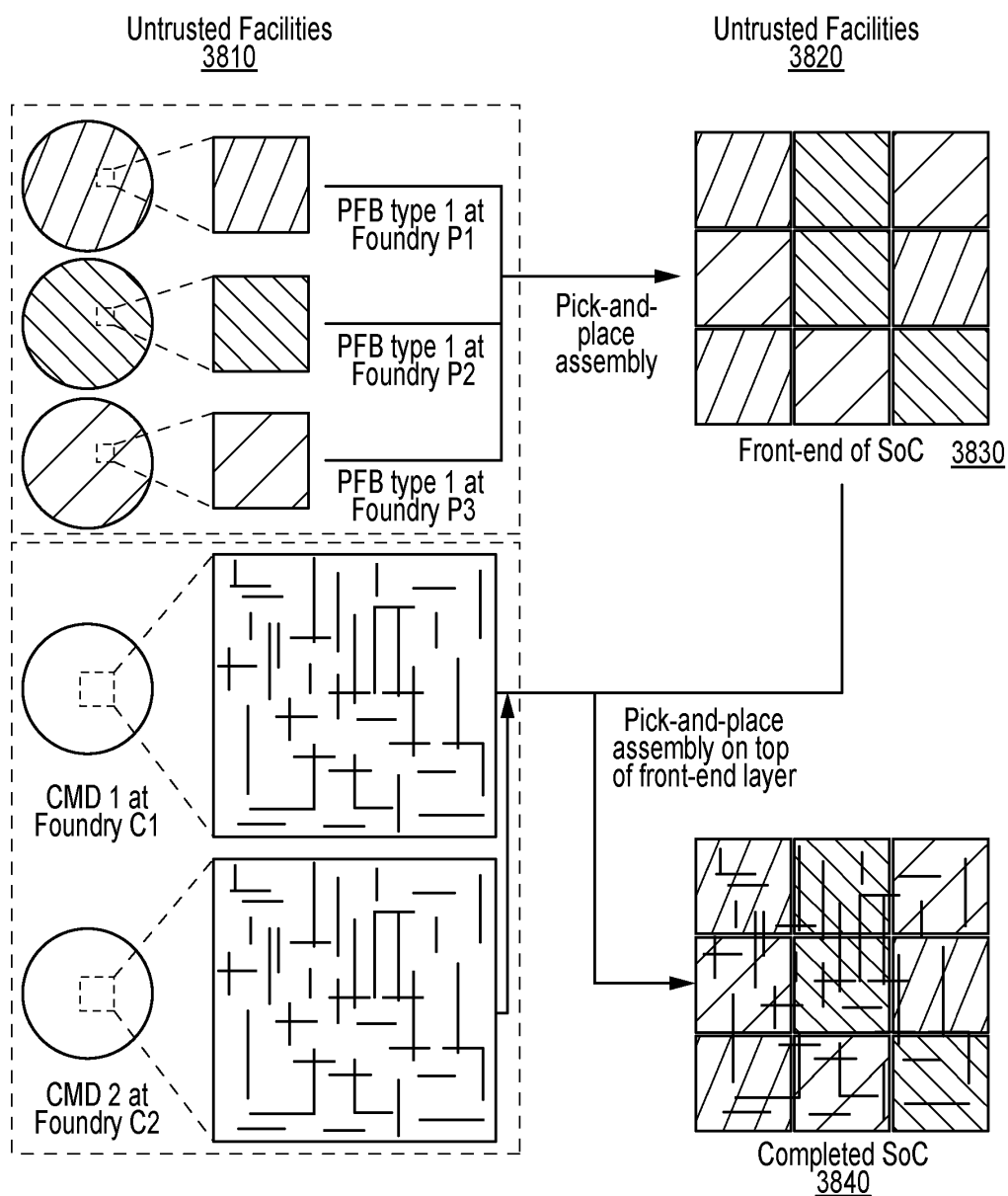
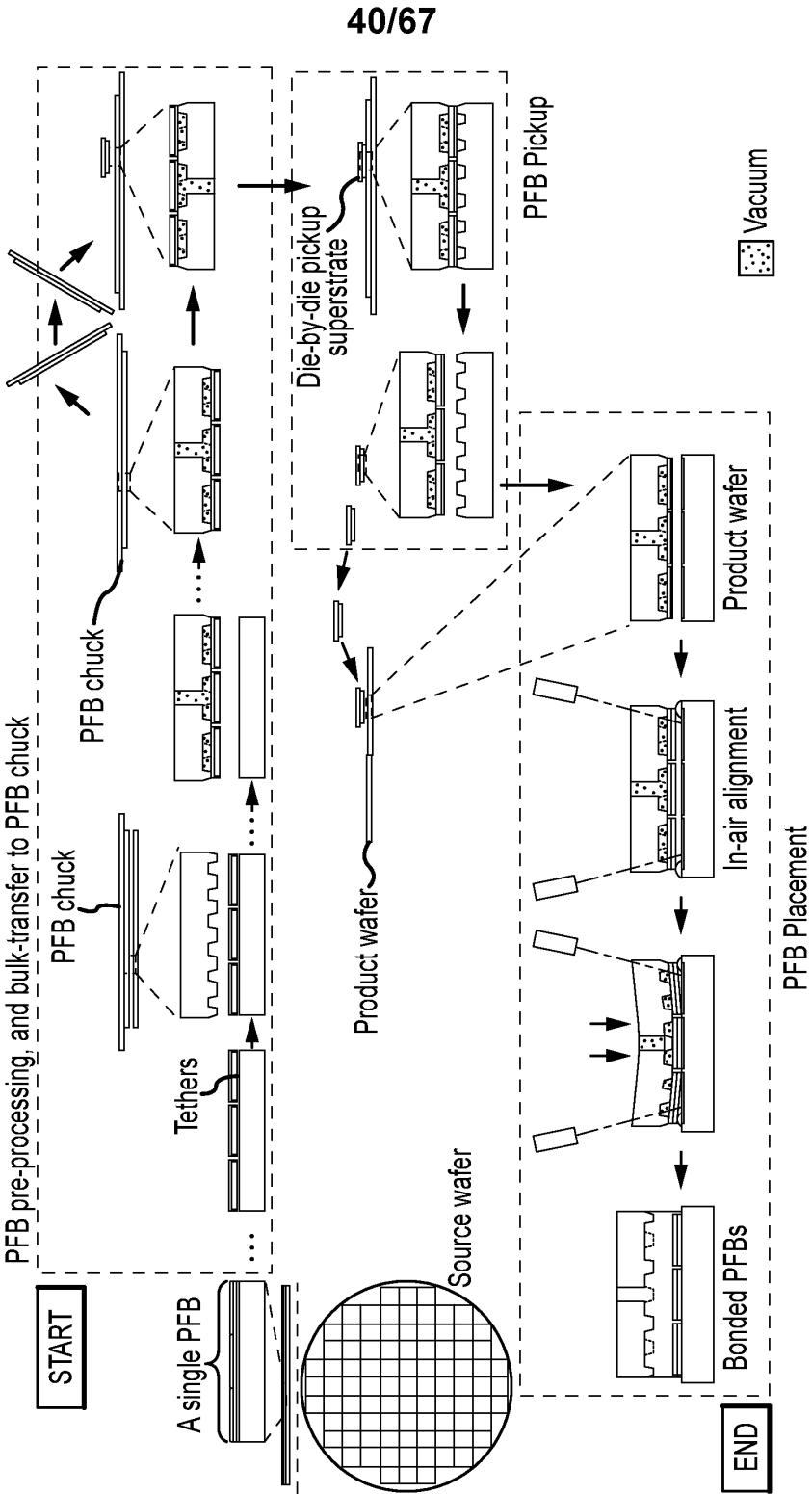


FIG.38



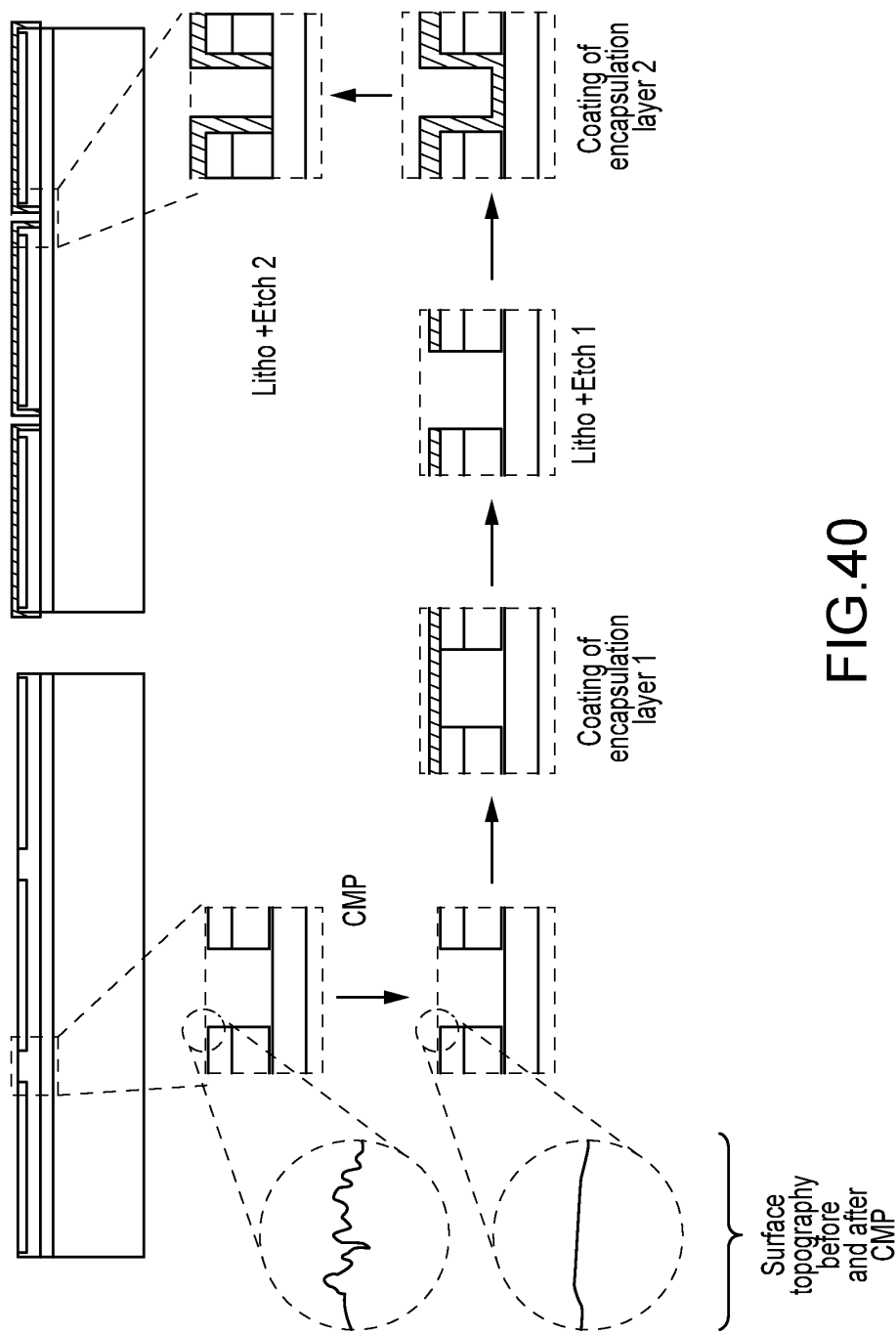


FIG.40

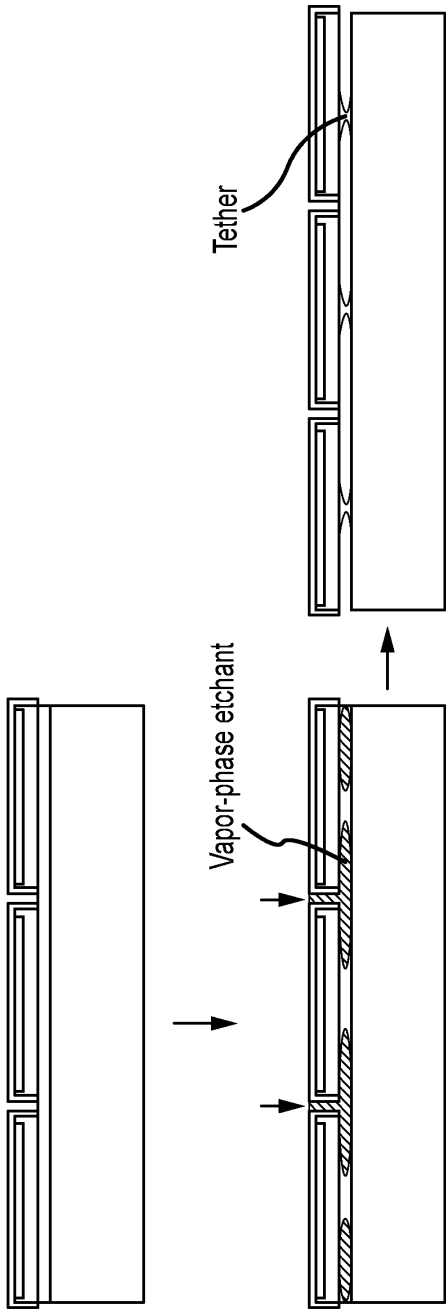


FIG.41

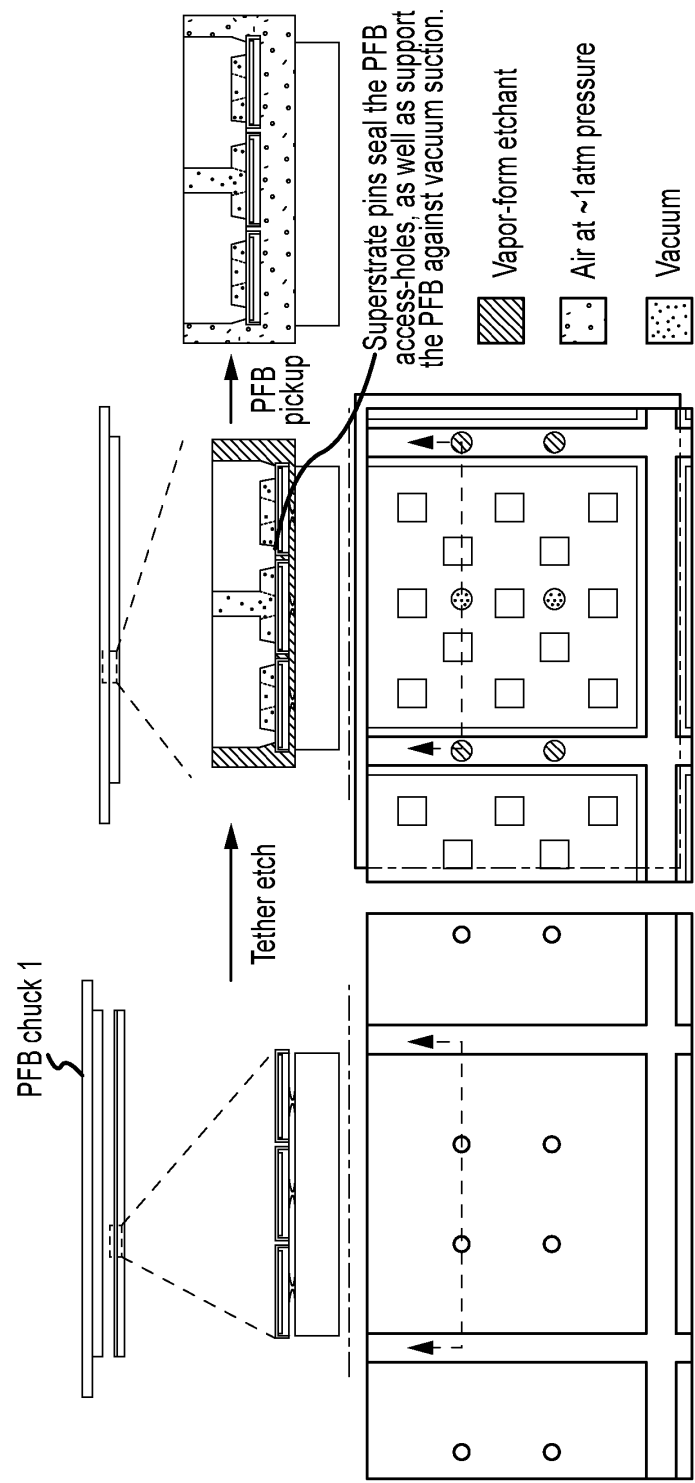


FIG. 42

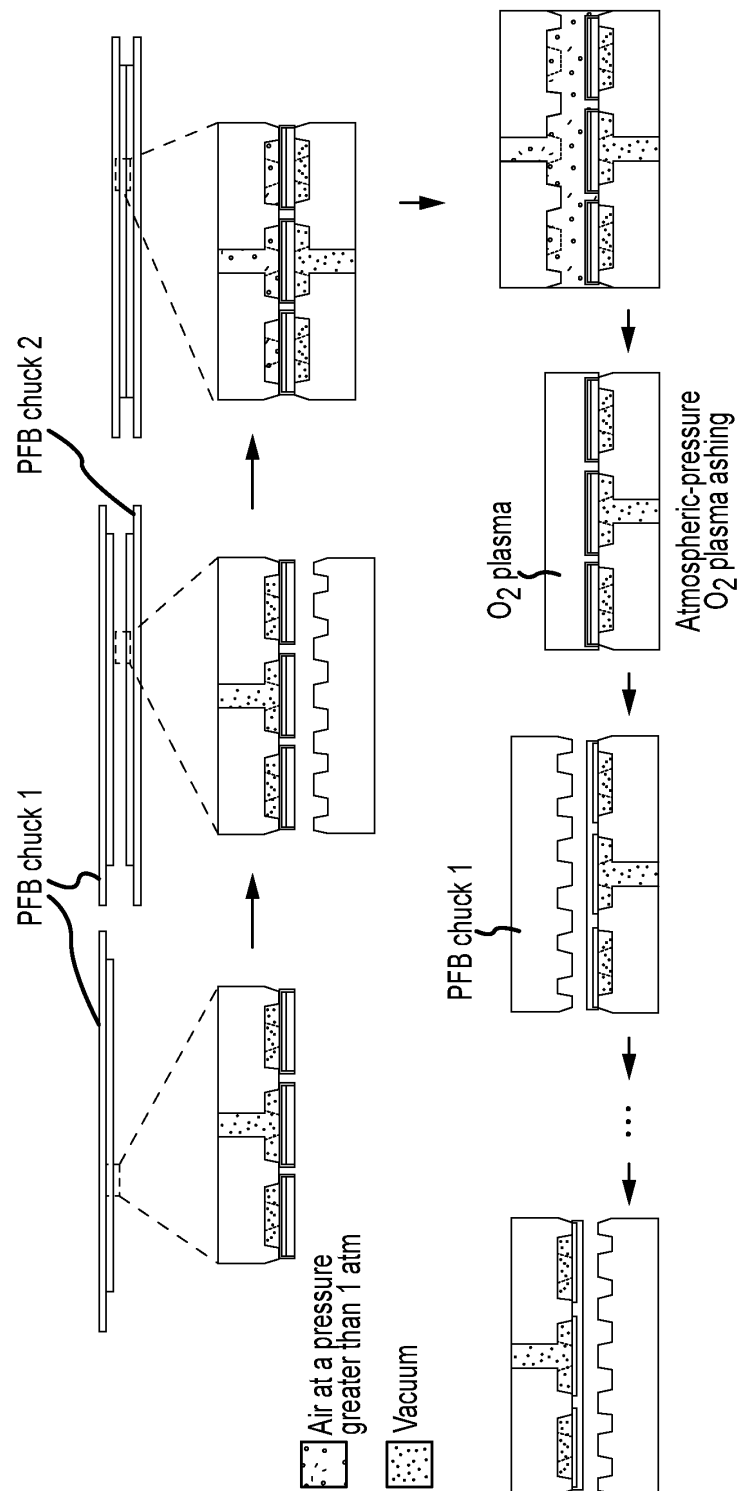


FIG.43

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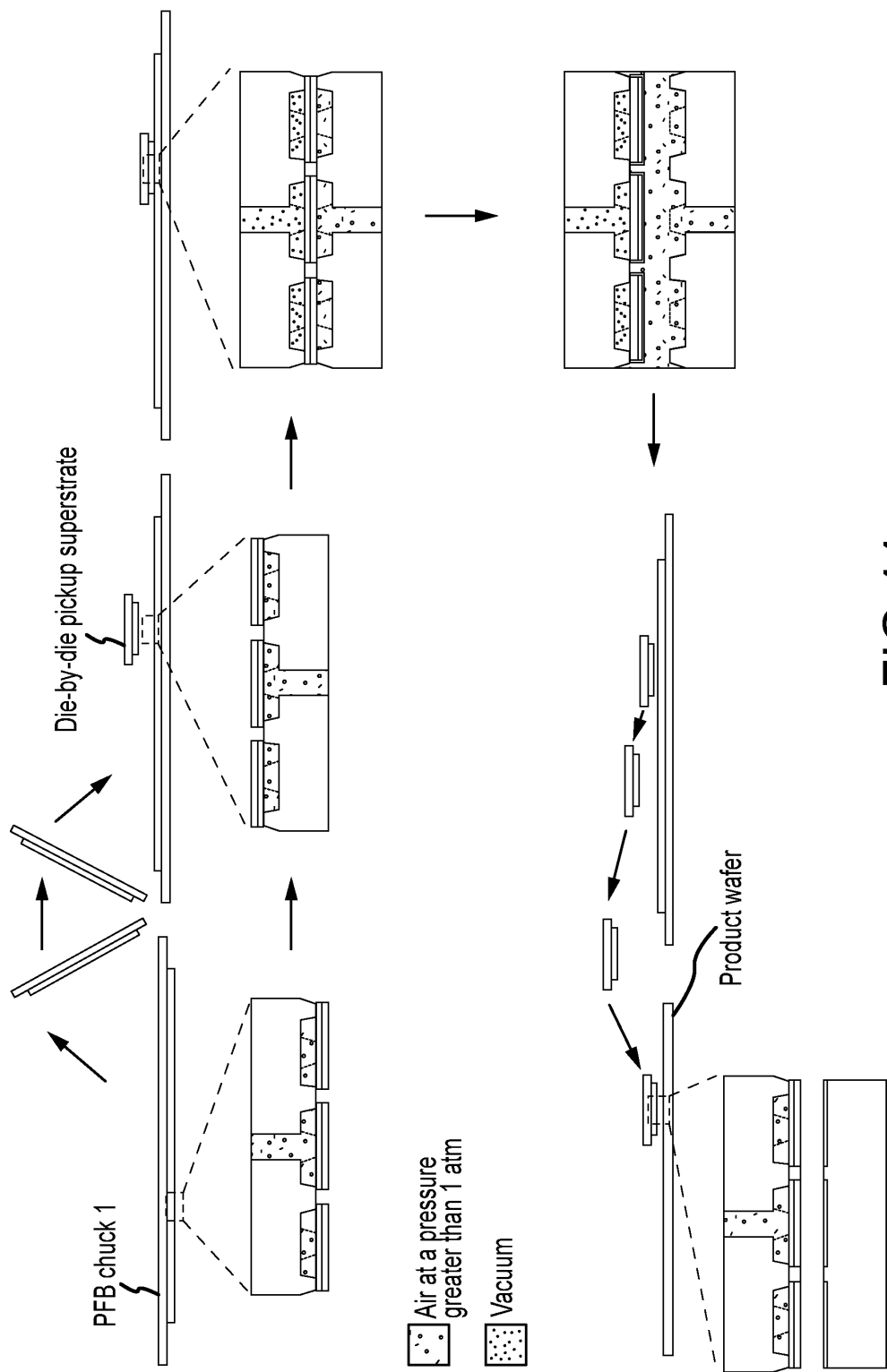
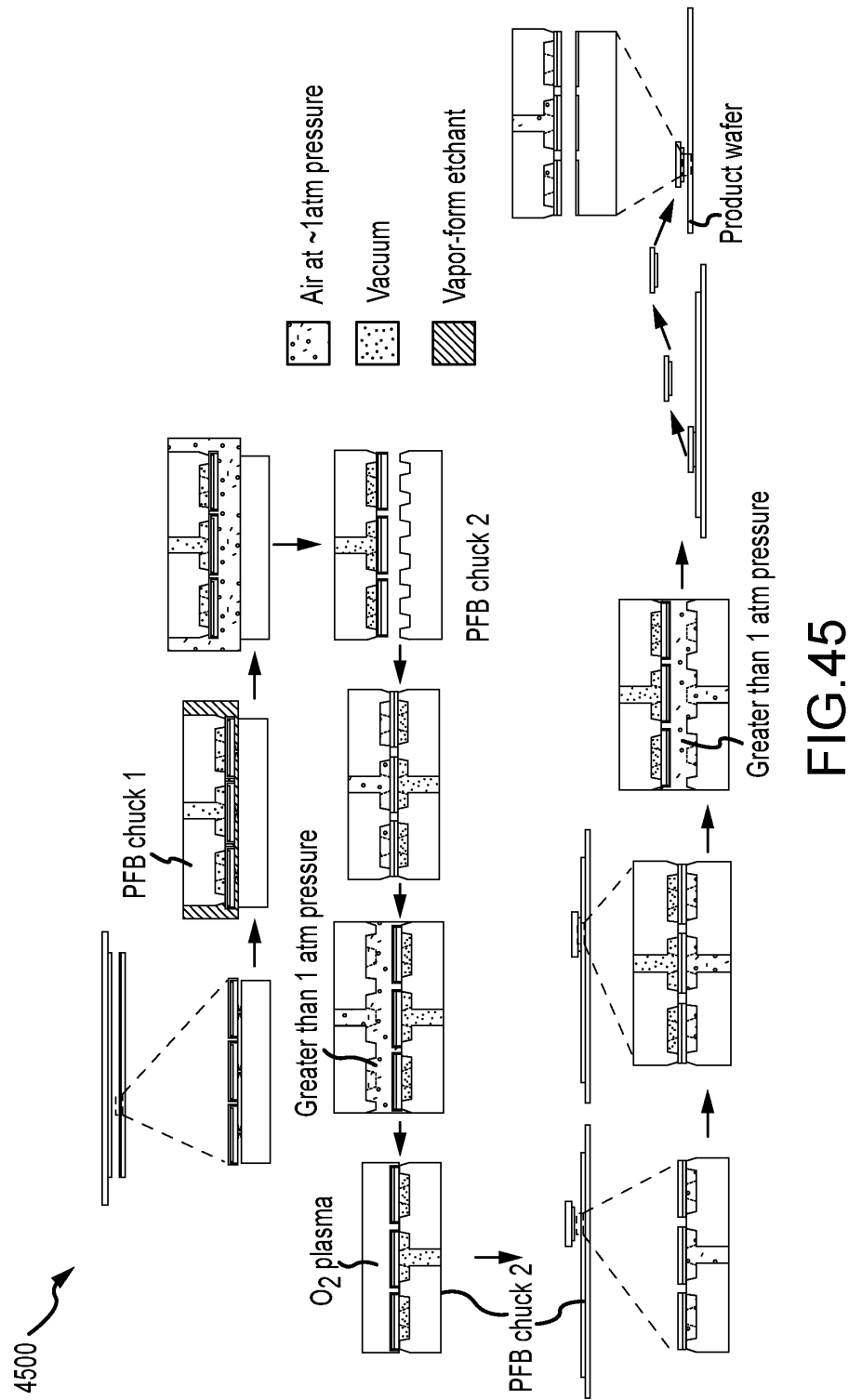
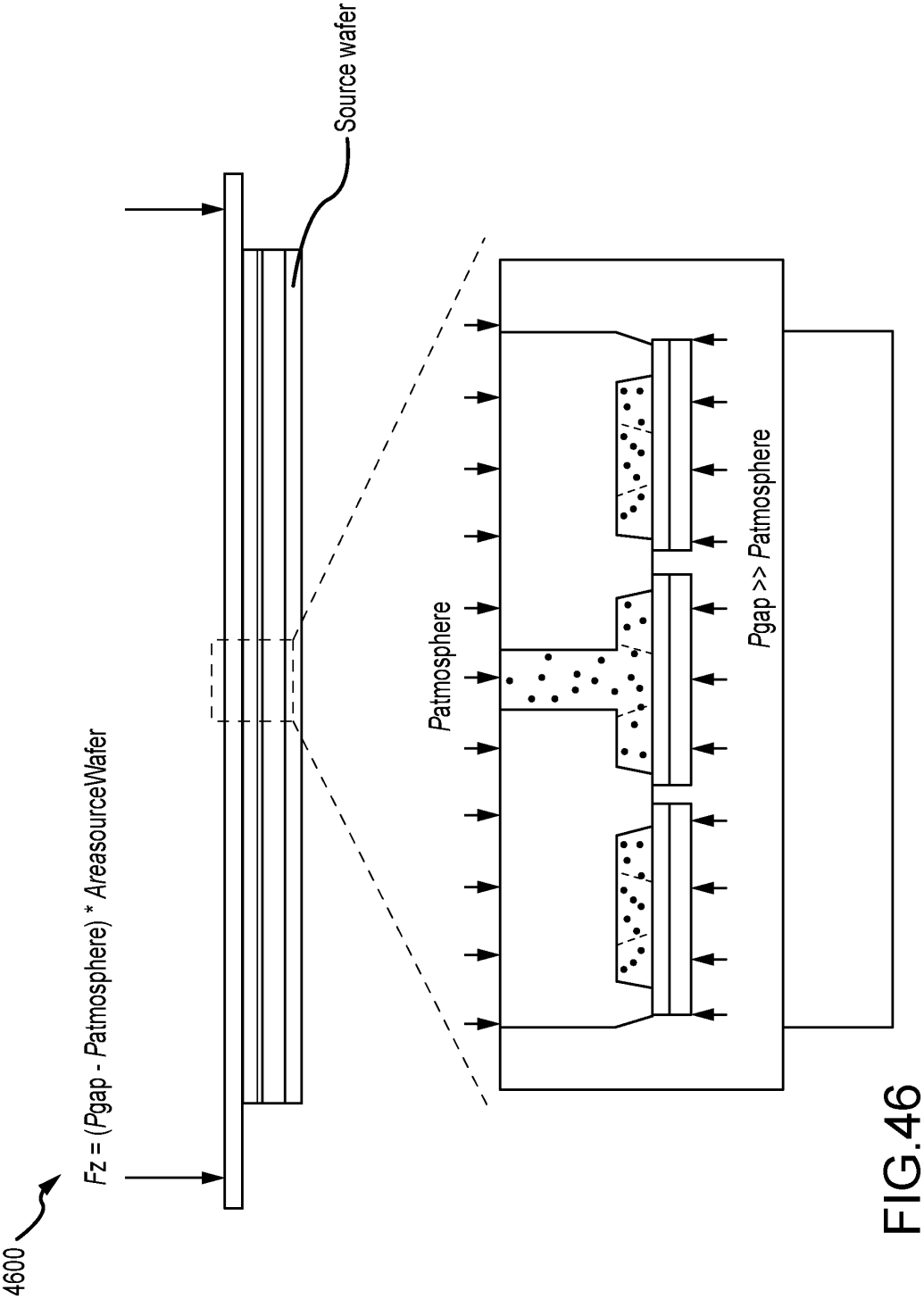


FIG.44



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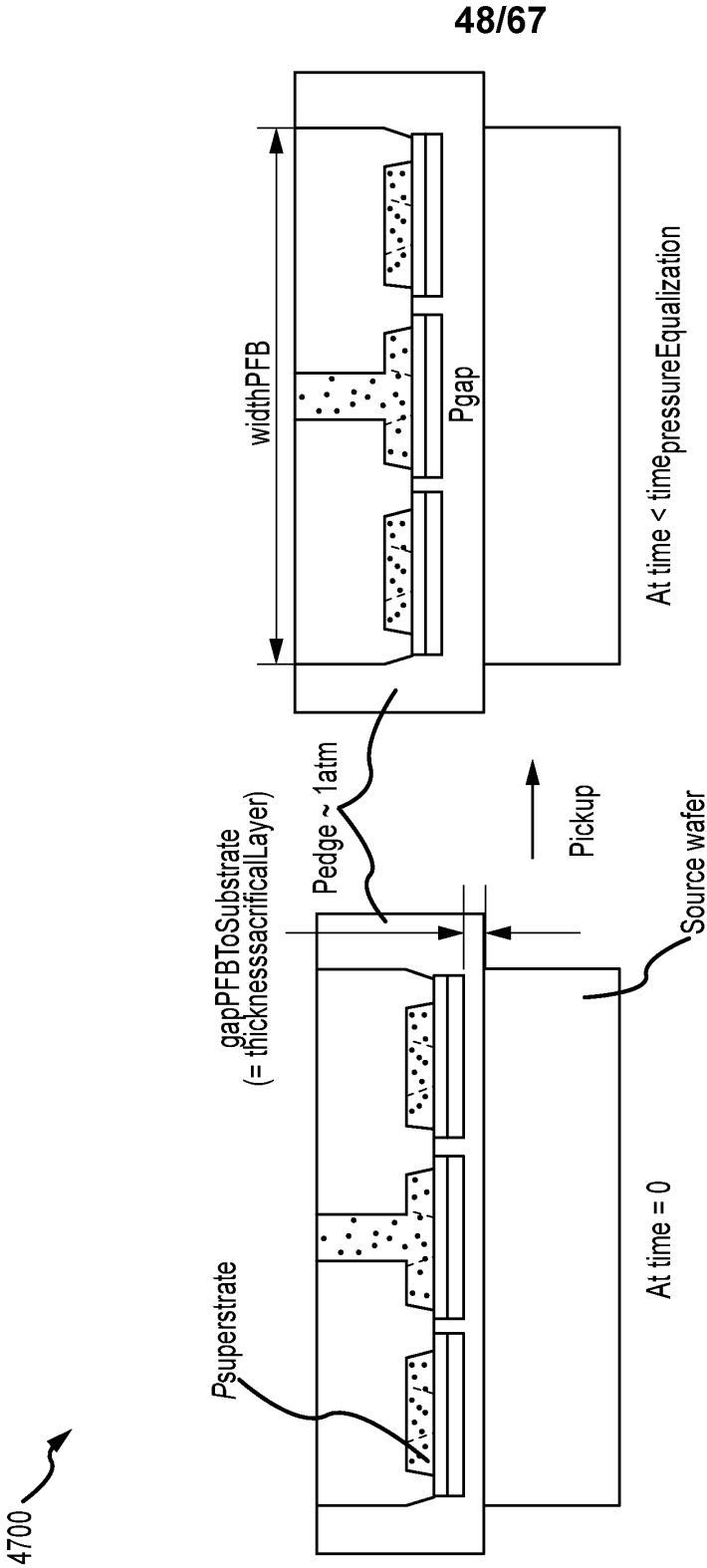


FIG.47

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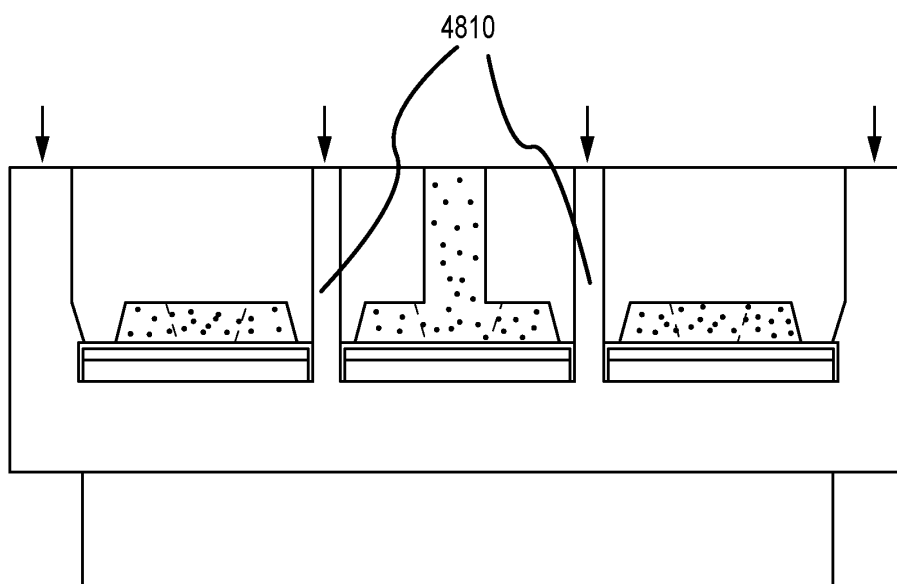


FIG.48

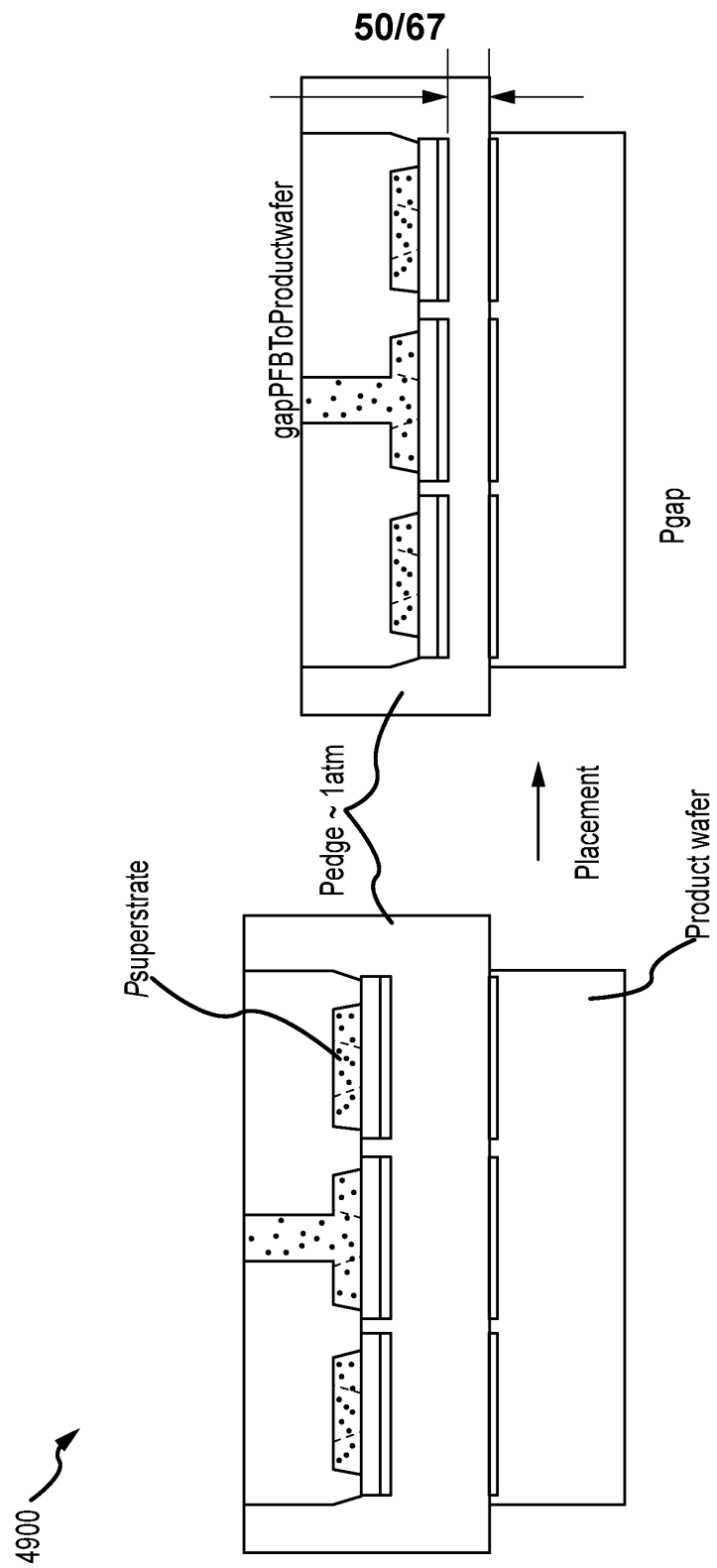


FIG.49

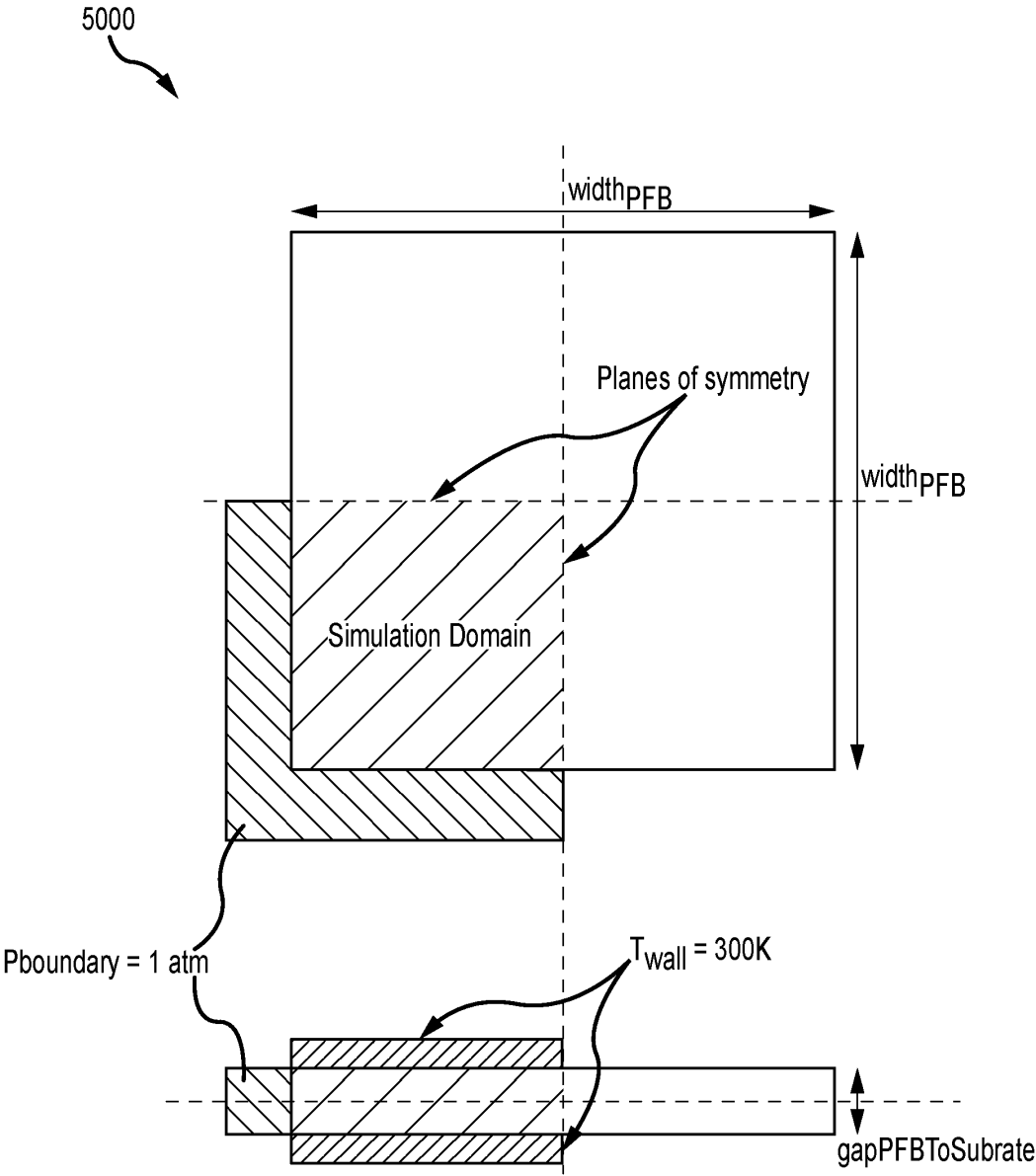


FIG.50

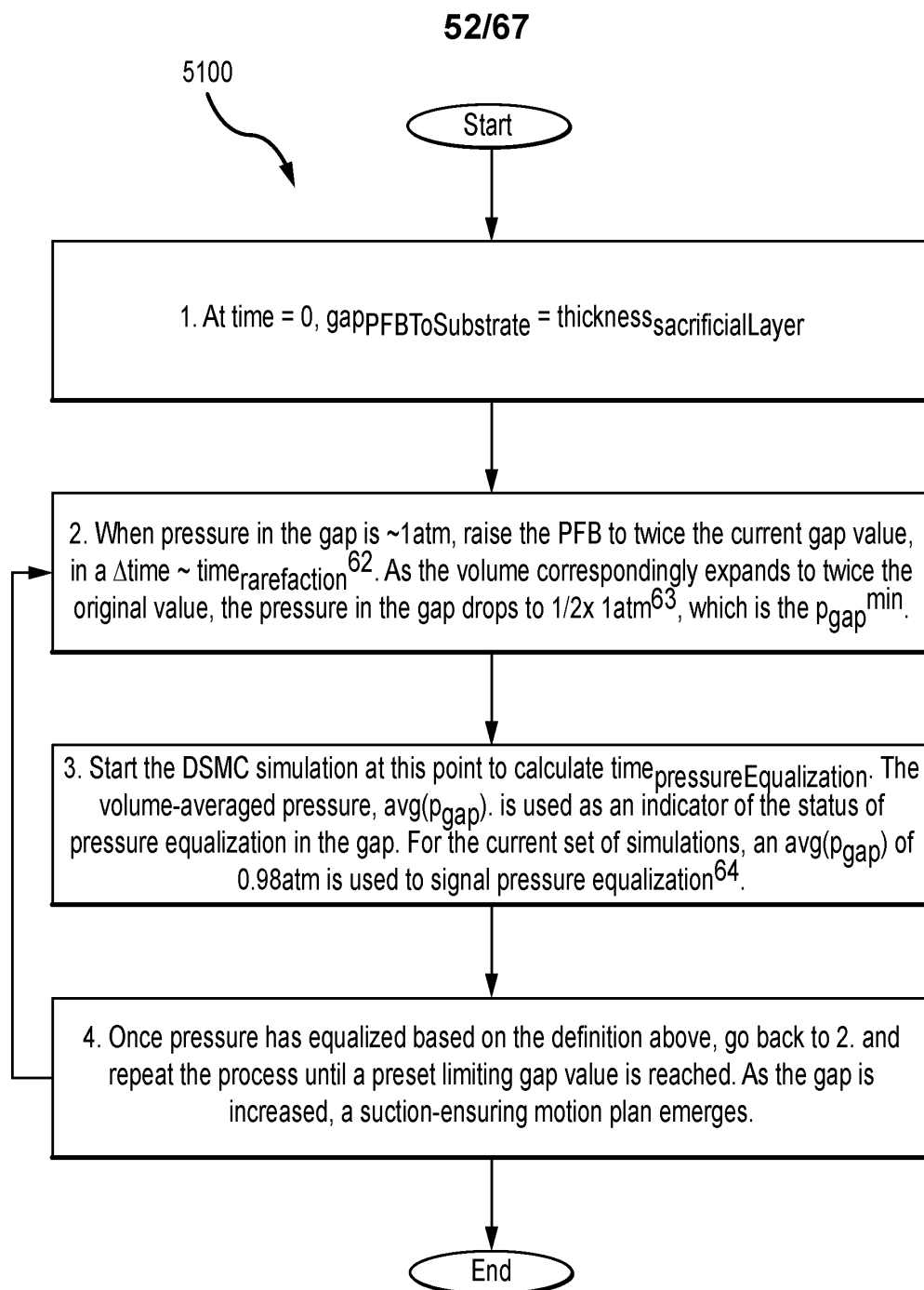
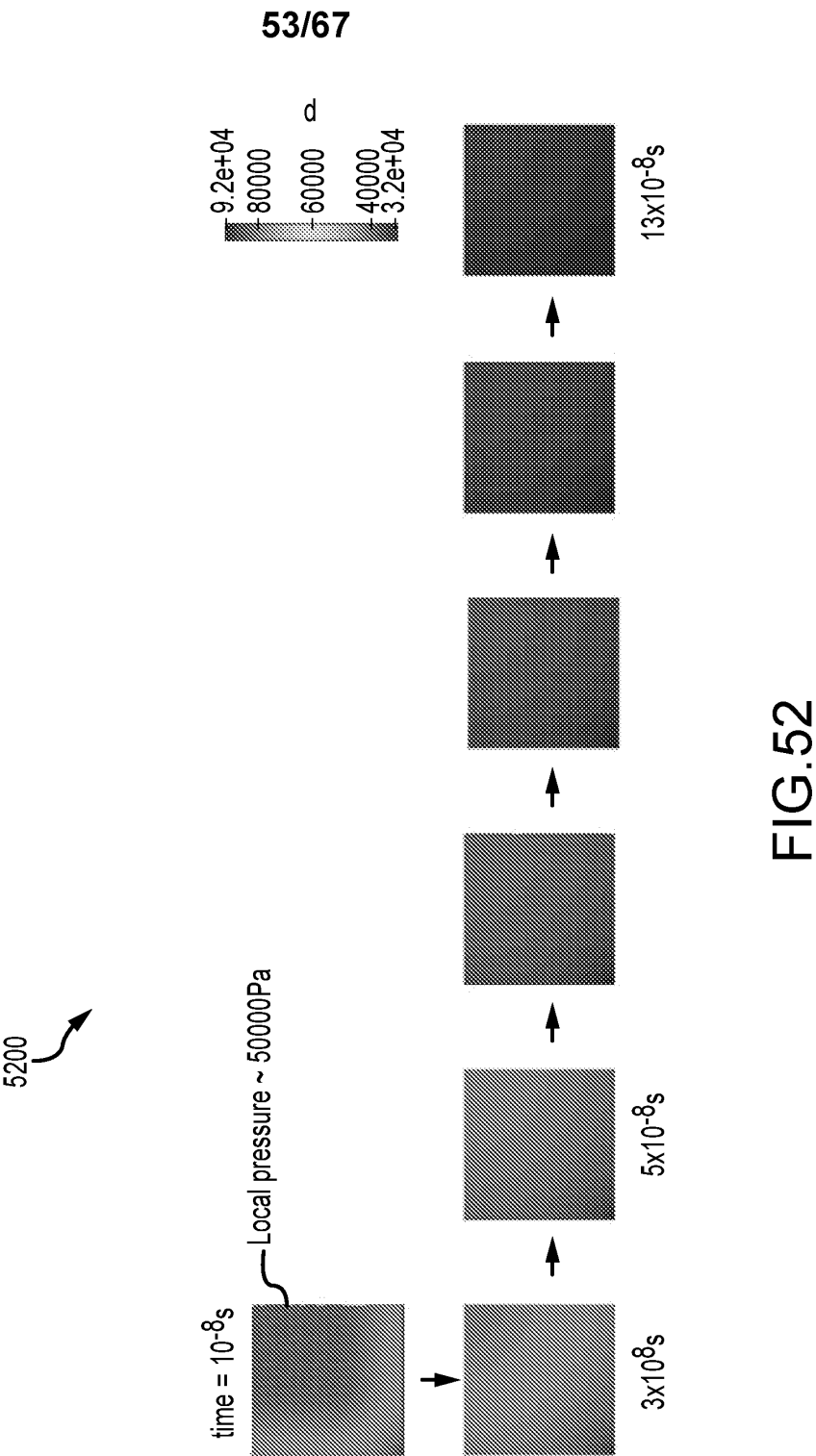


FIG.51



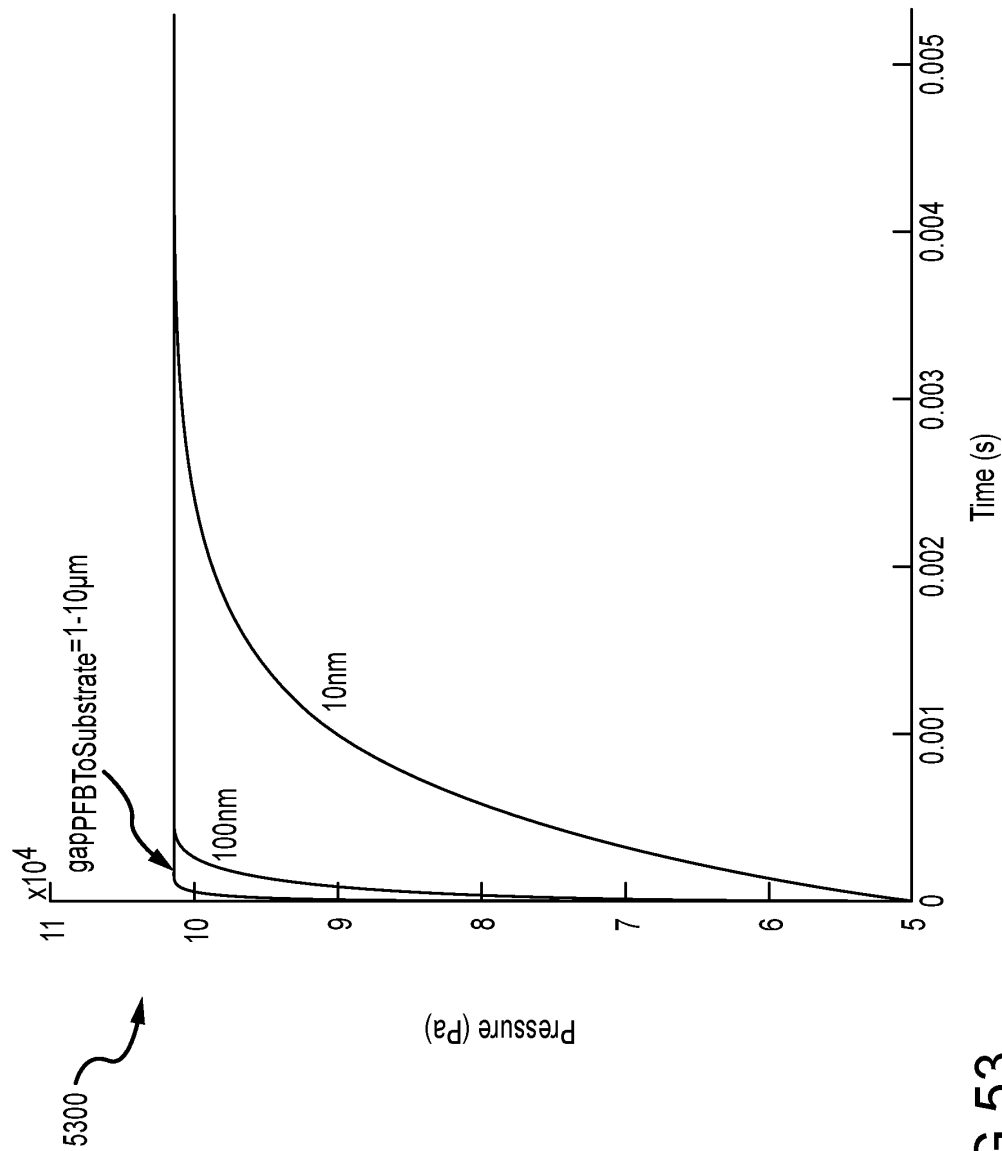


FIG.53

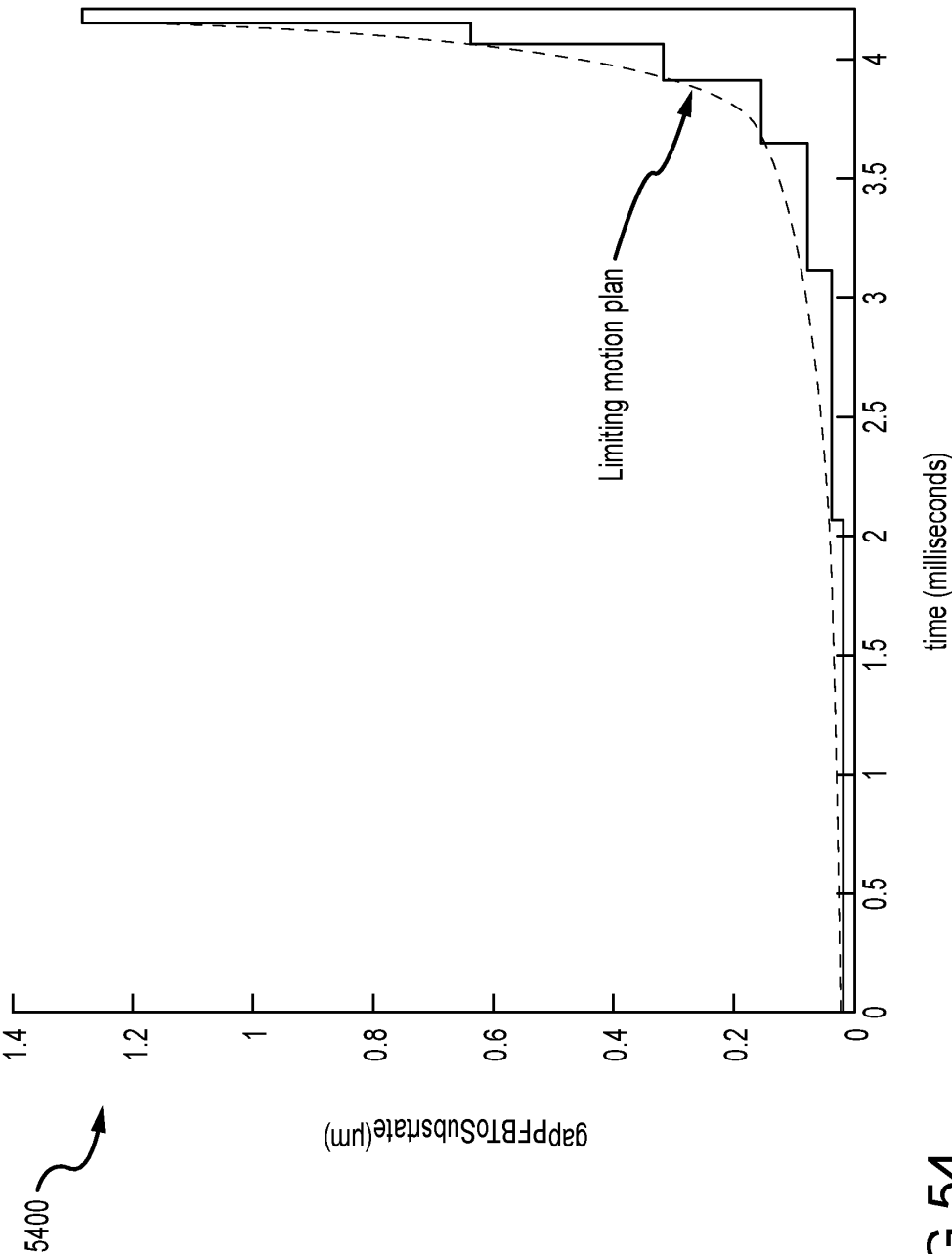
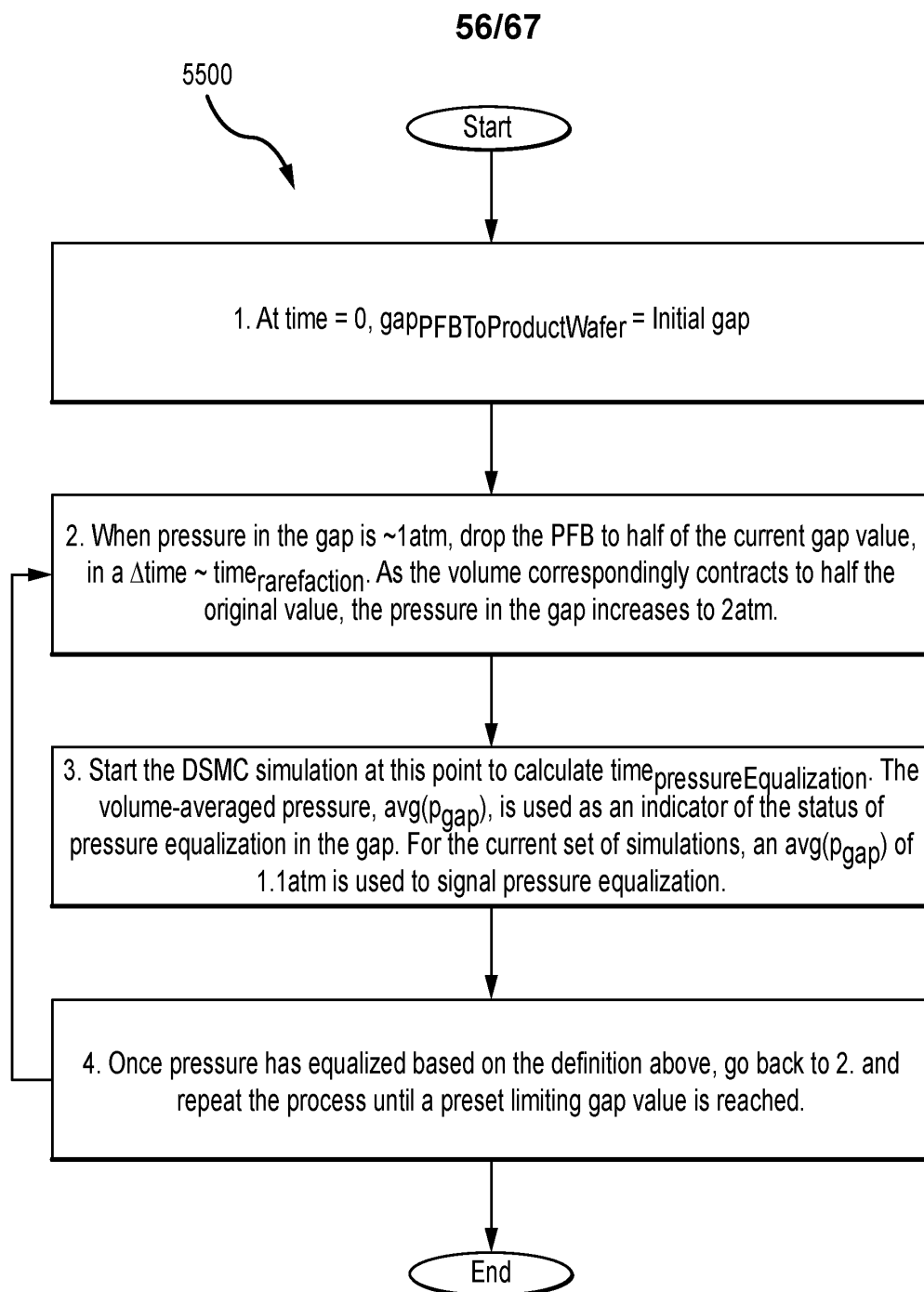


FIG.54

**FIG.55**

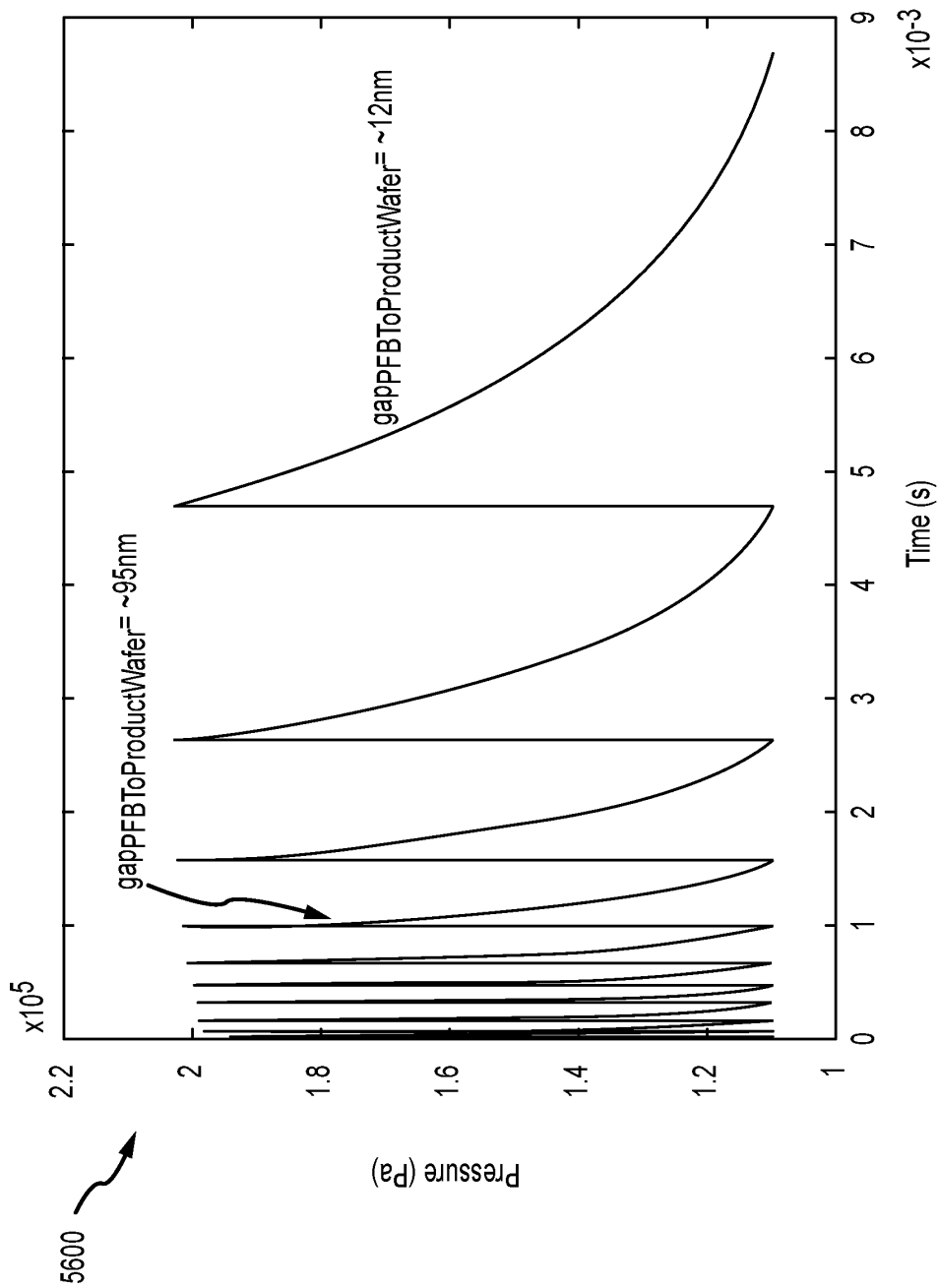


FIG.56

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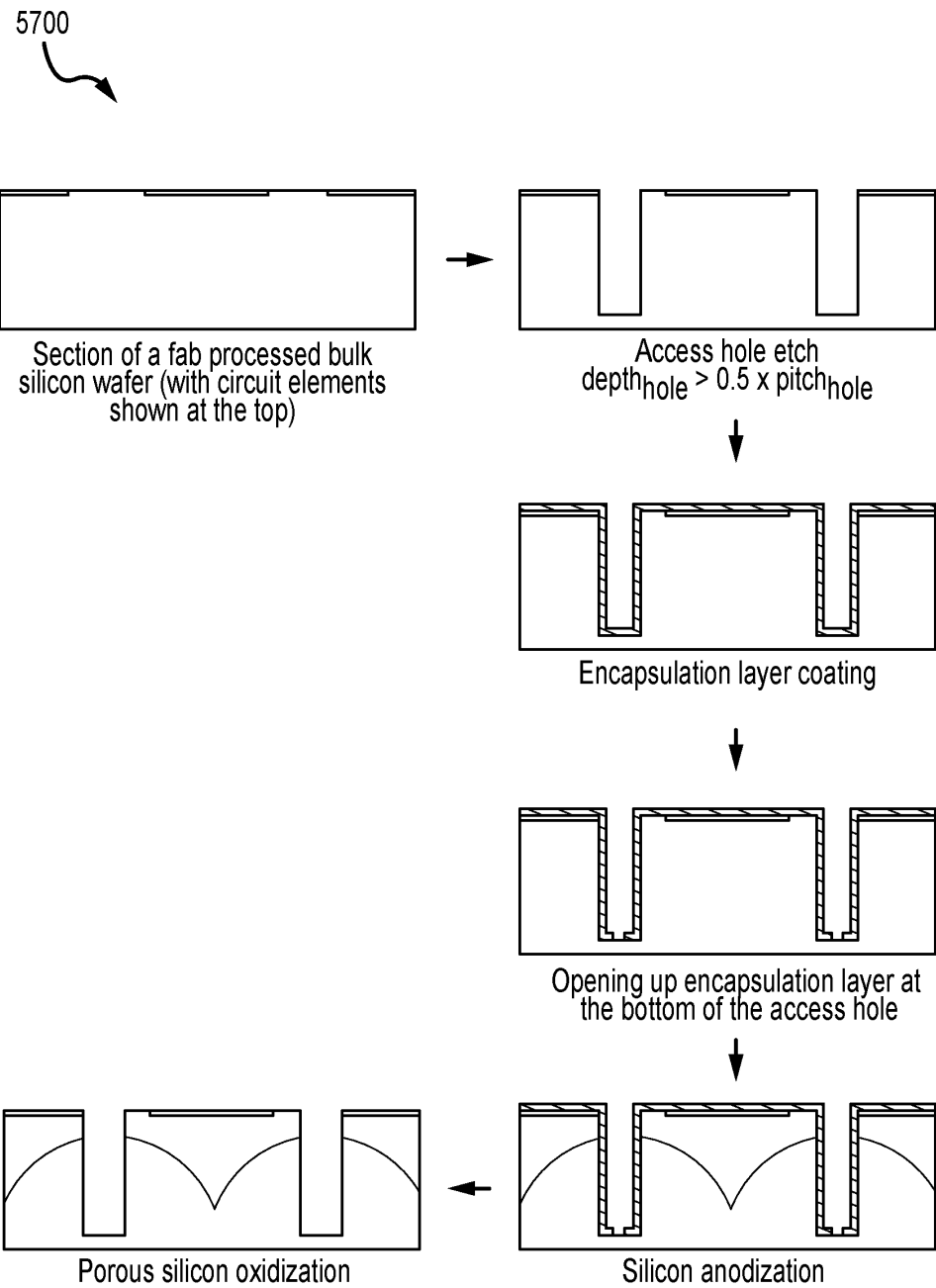
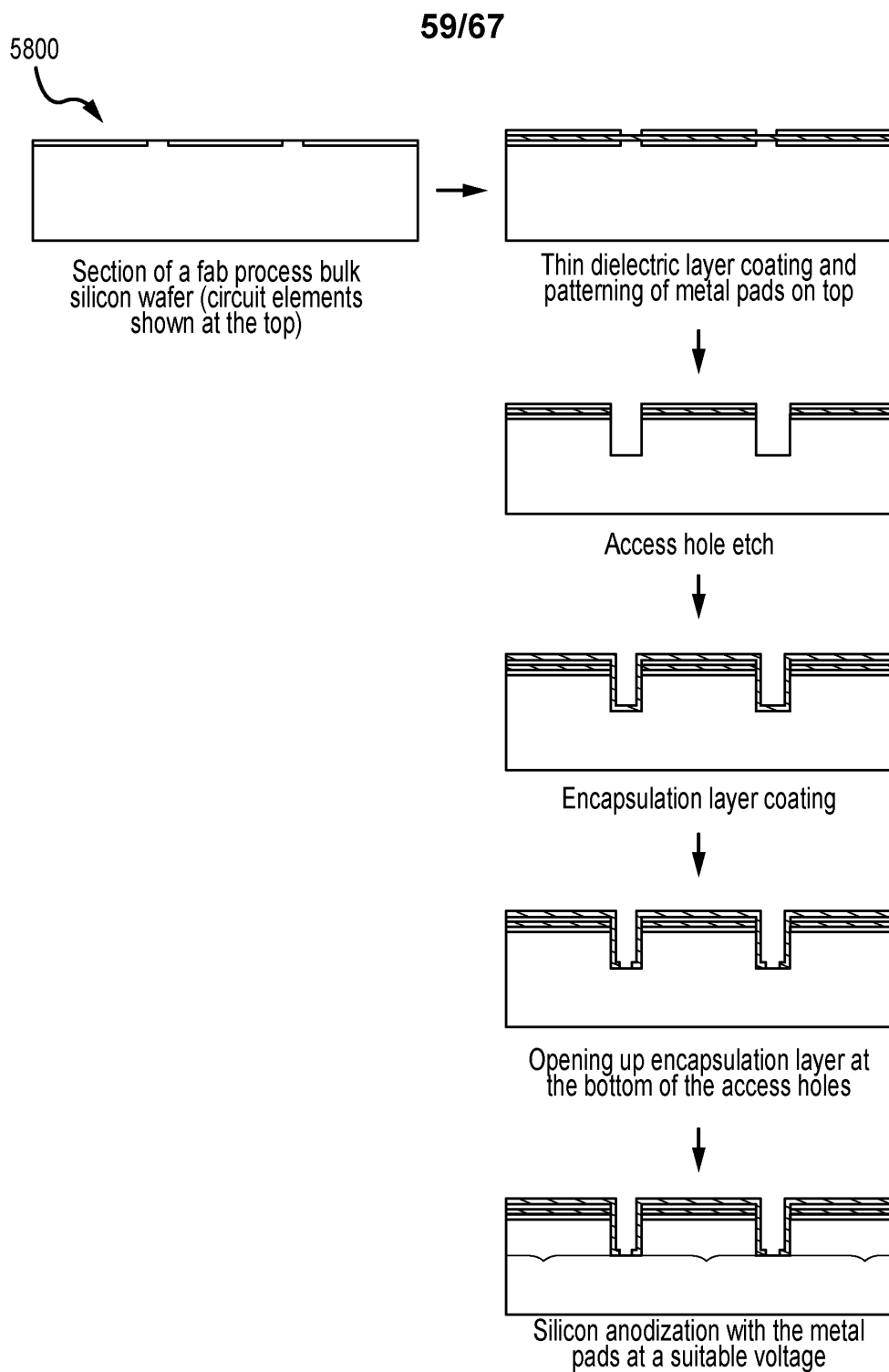


FIG.57

**FIG.58**

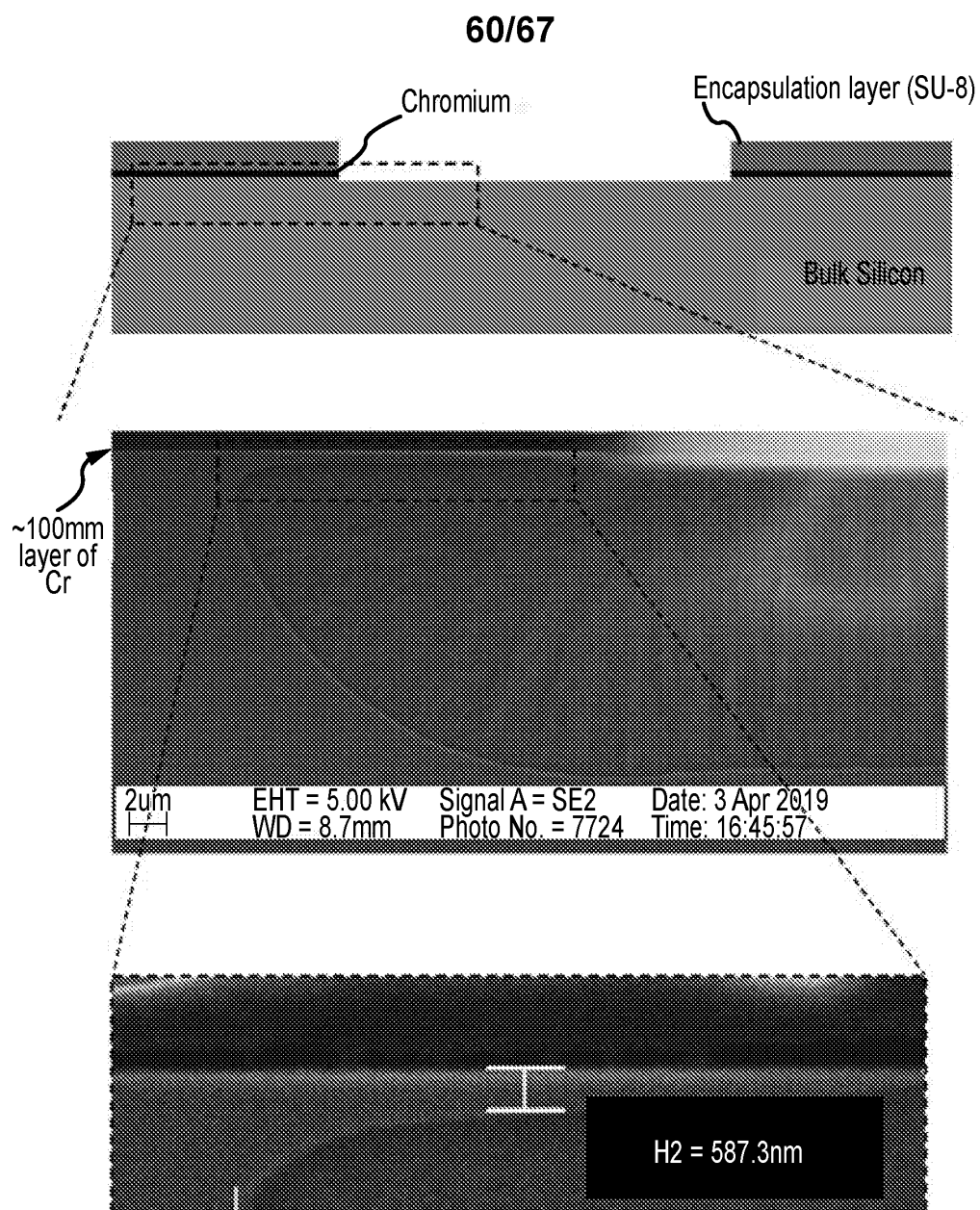


FIG.59

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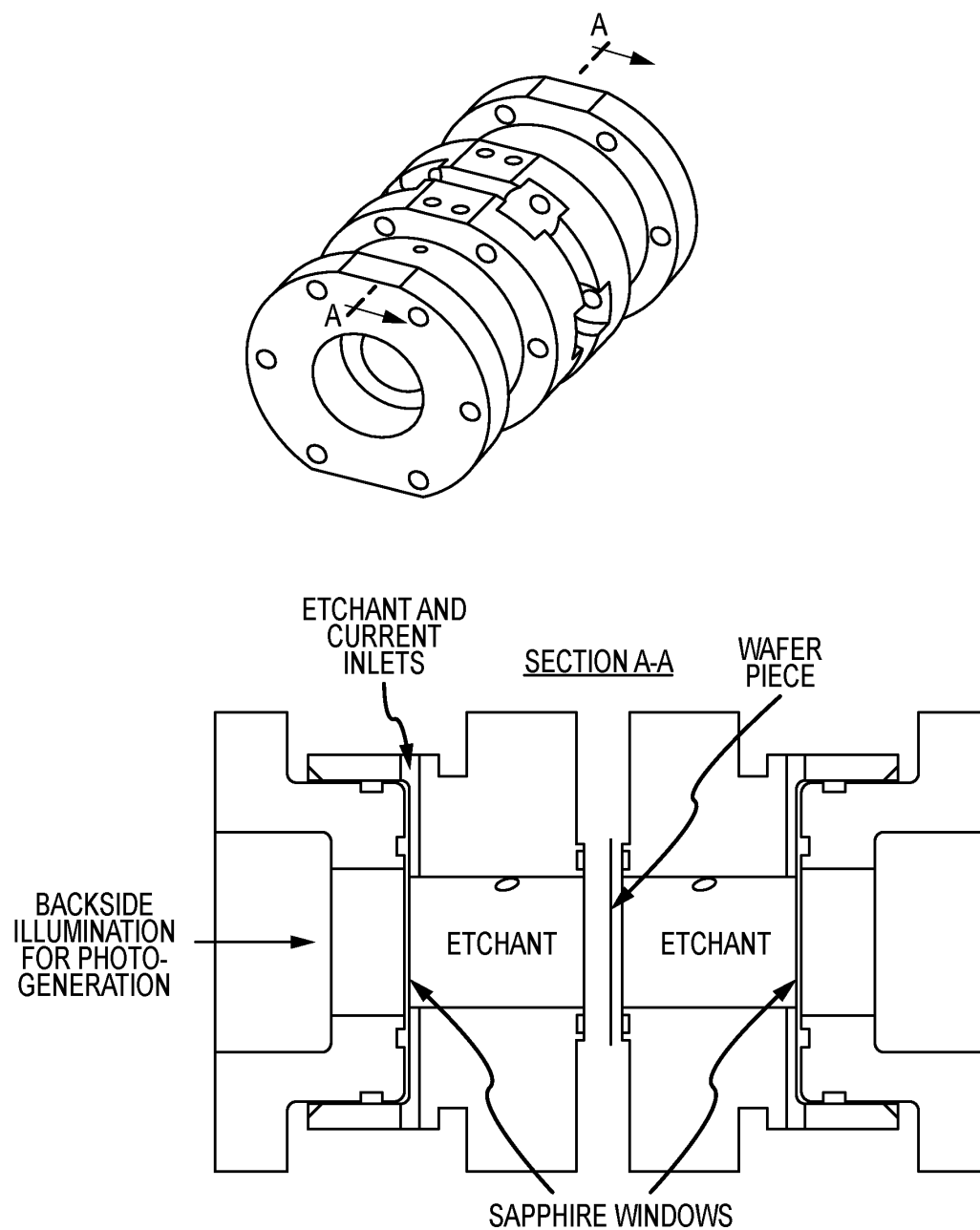


FIG. 60

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6100



Force on piston head = F
(this includes force due to
atmospheric pressure from the top)

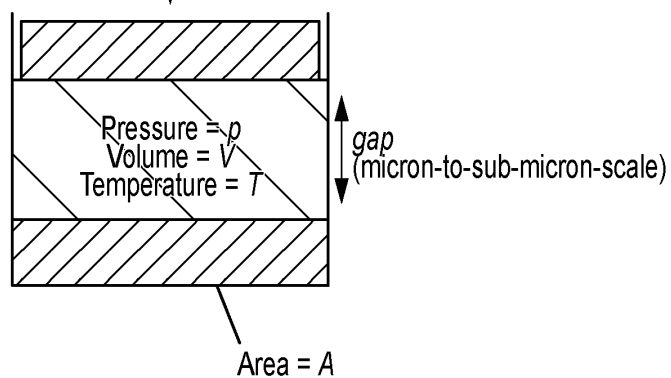


FIG.61

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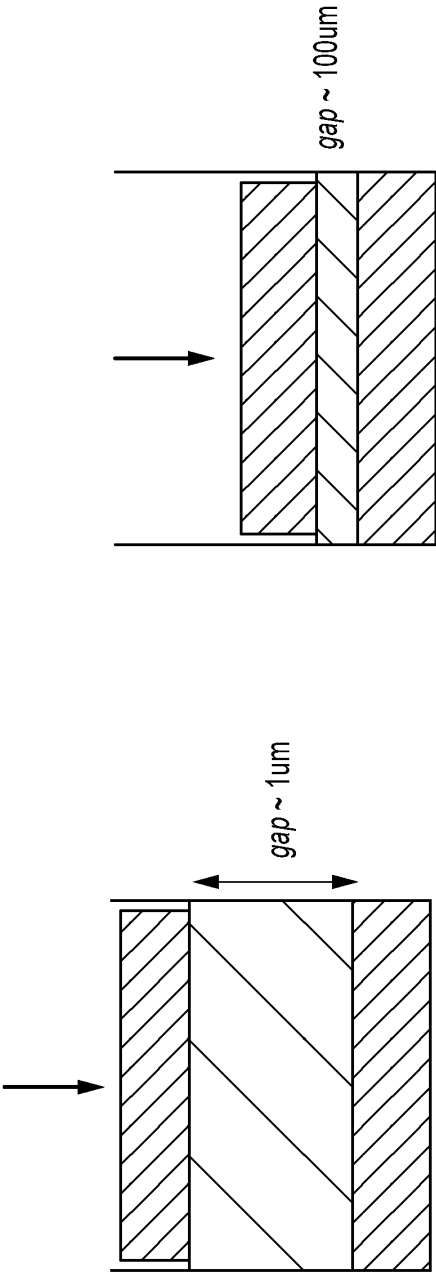
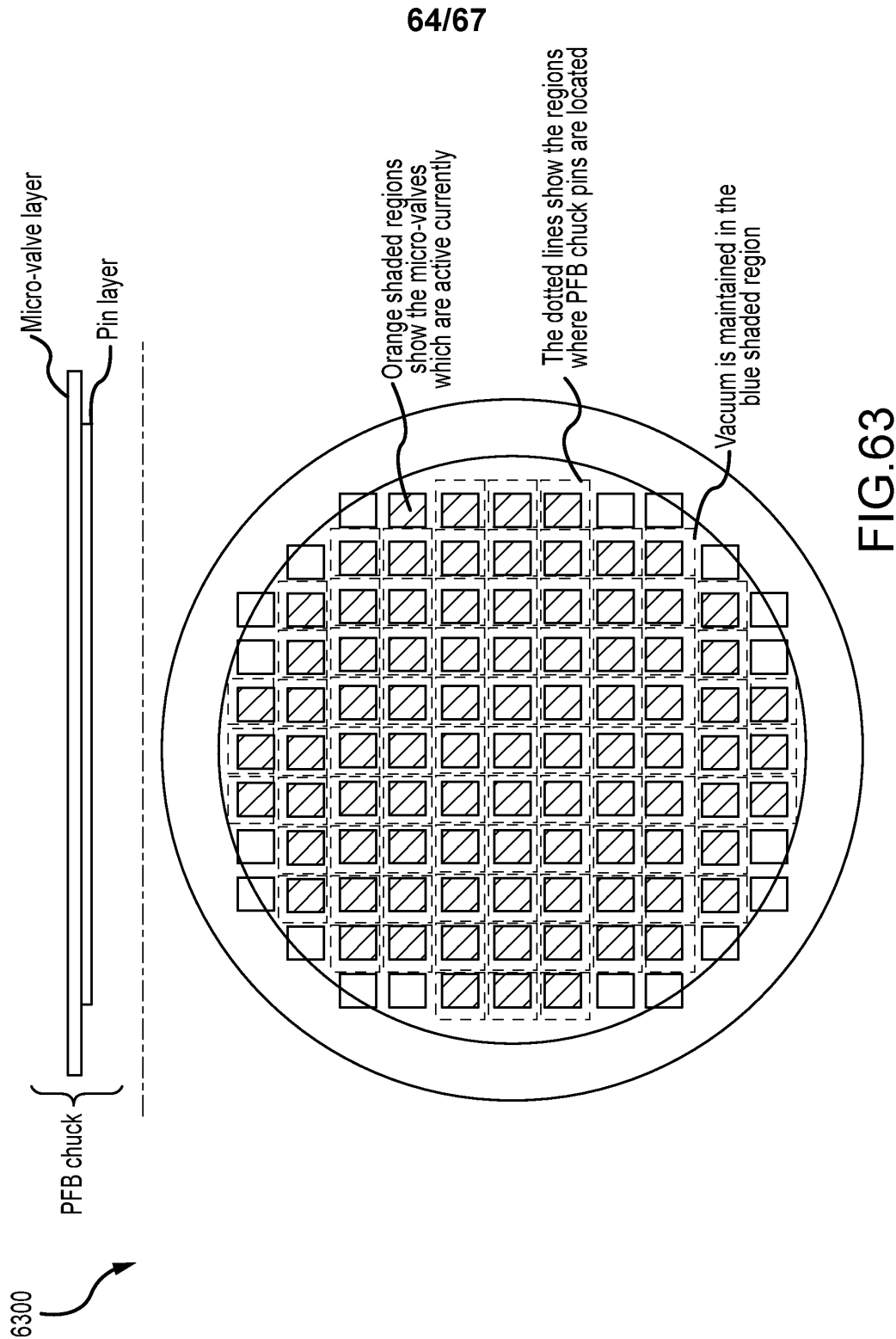


FIG.62

6200



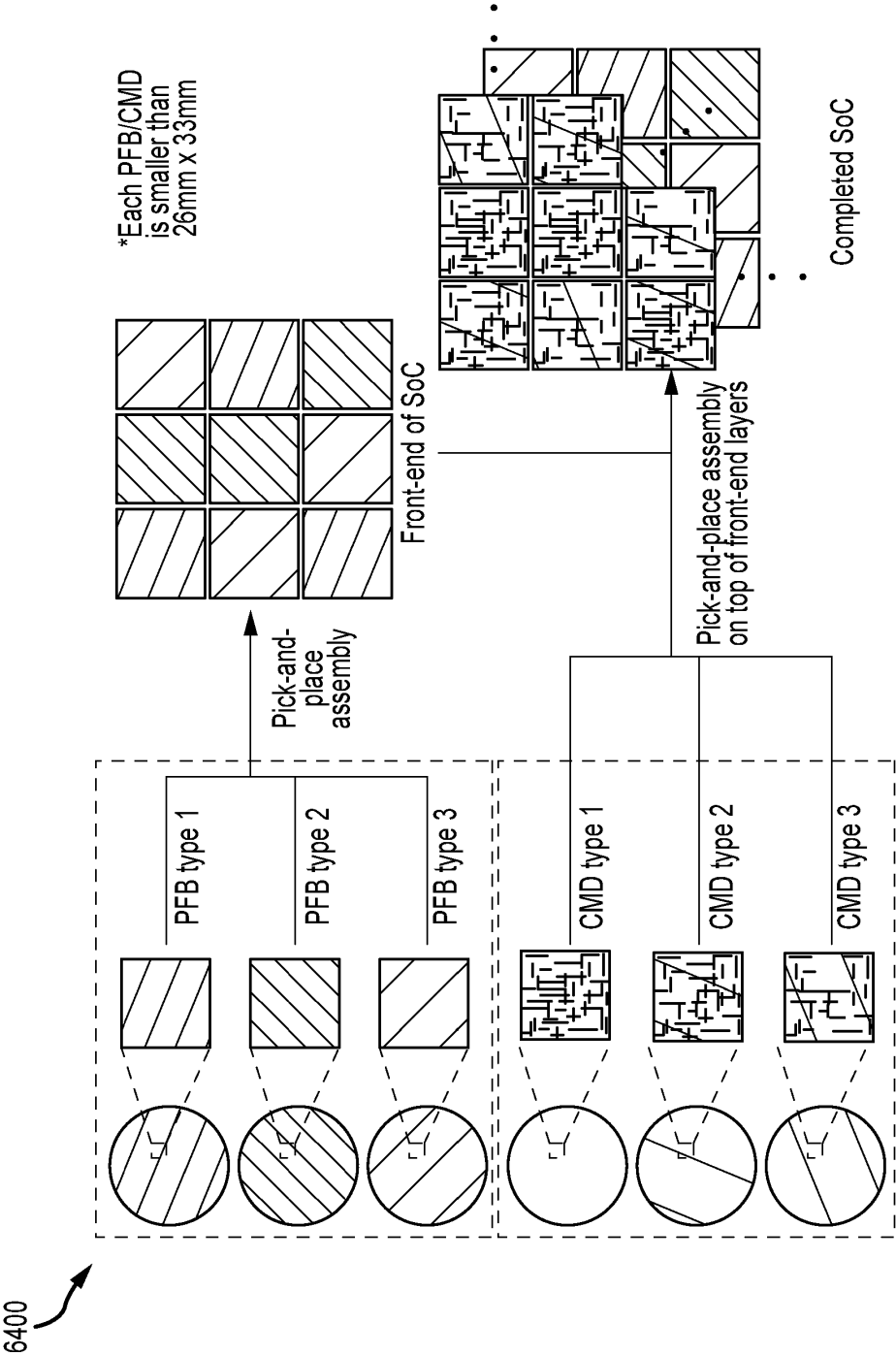


FIG.64

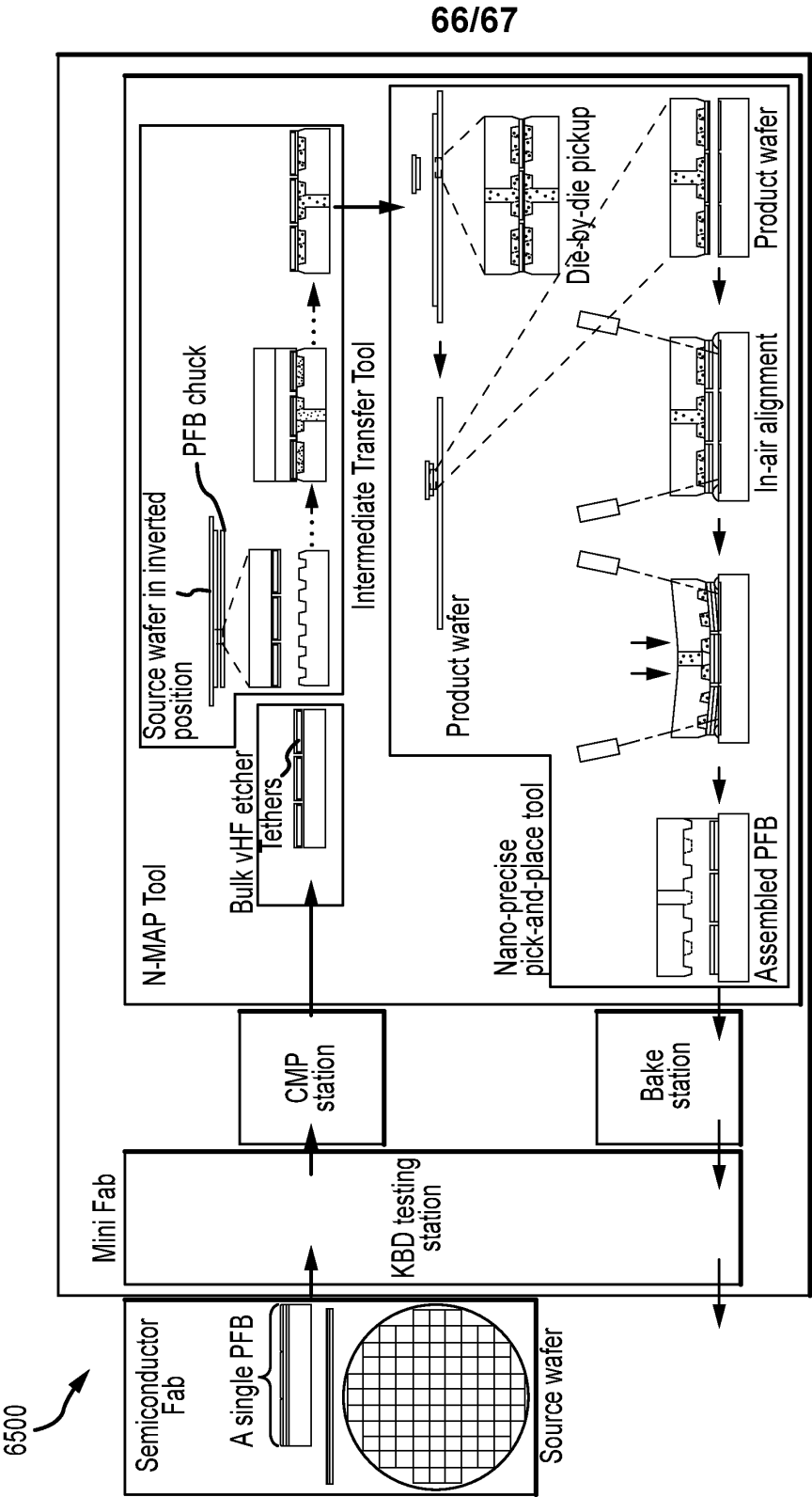


FIG.65

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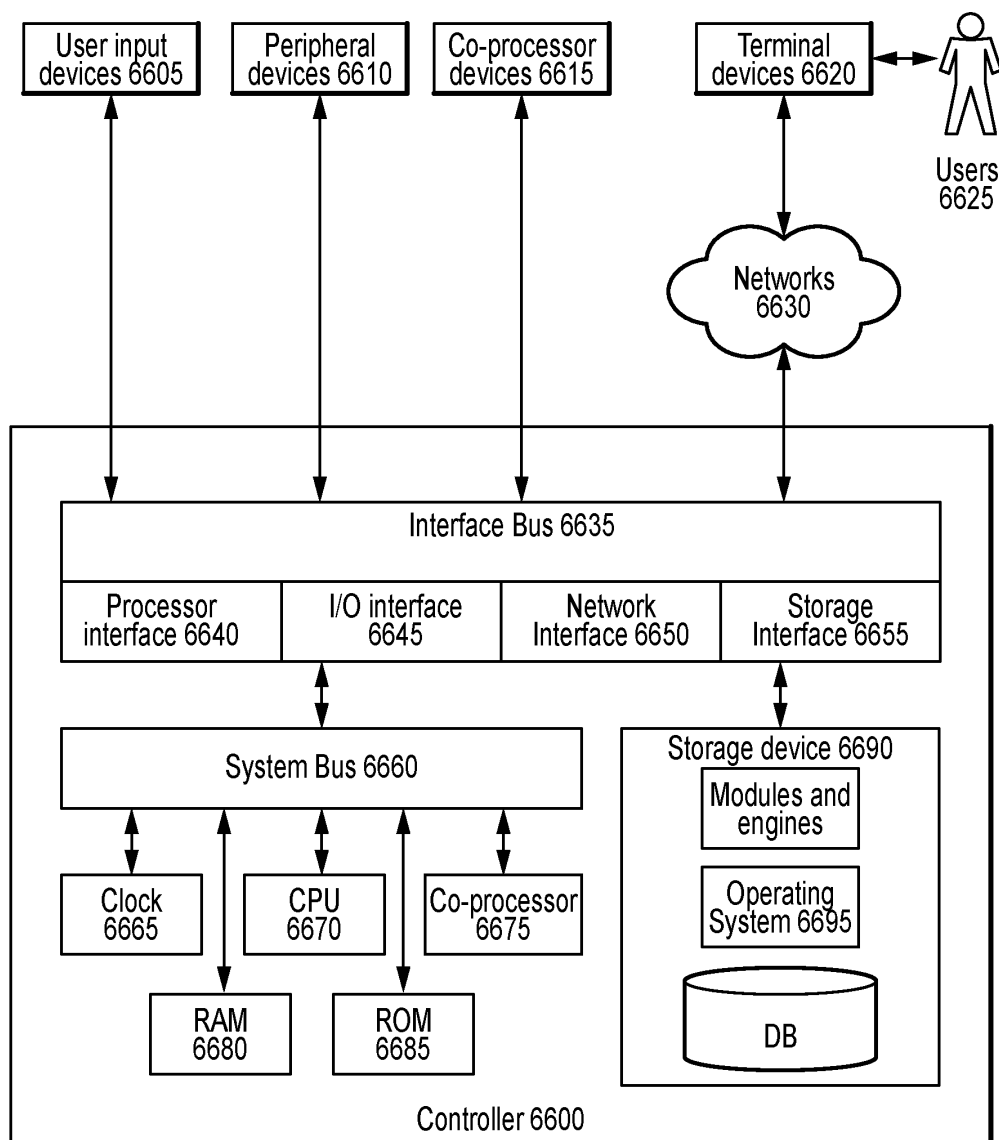


FIG.66