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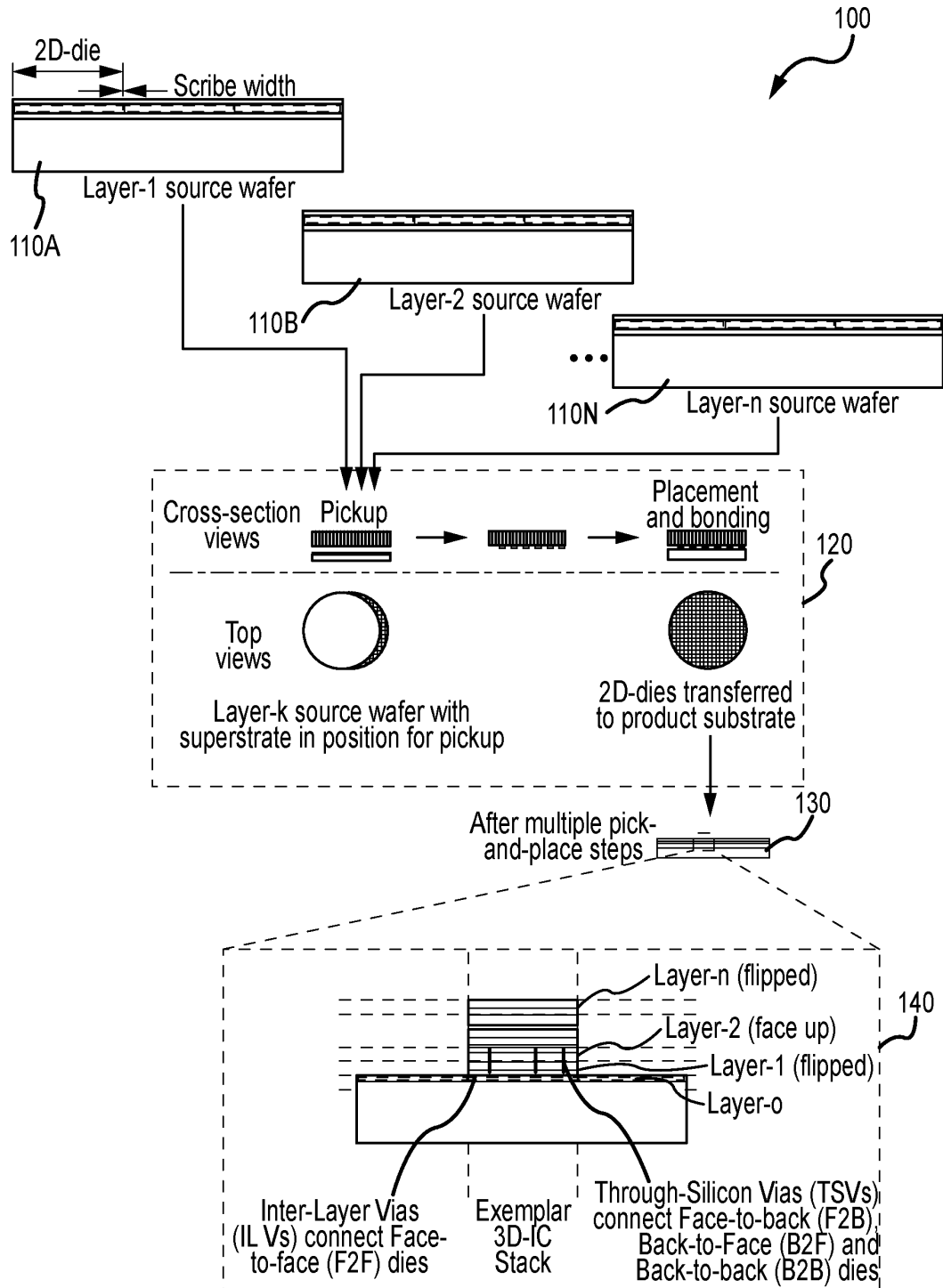


FIG.1

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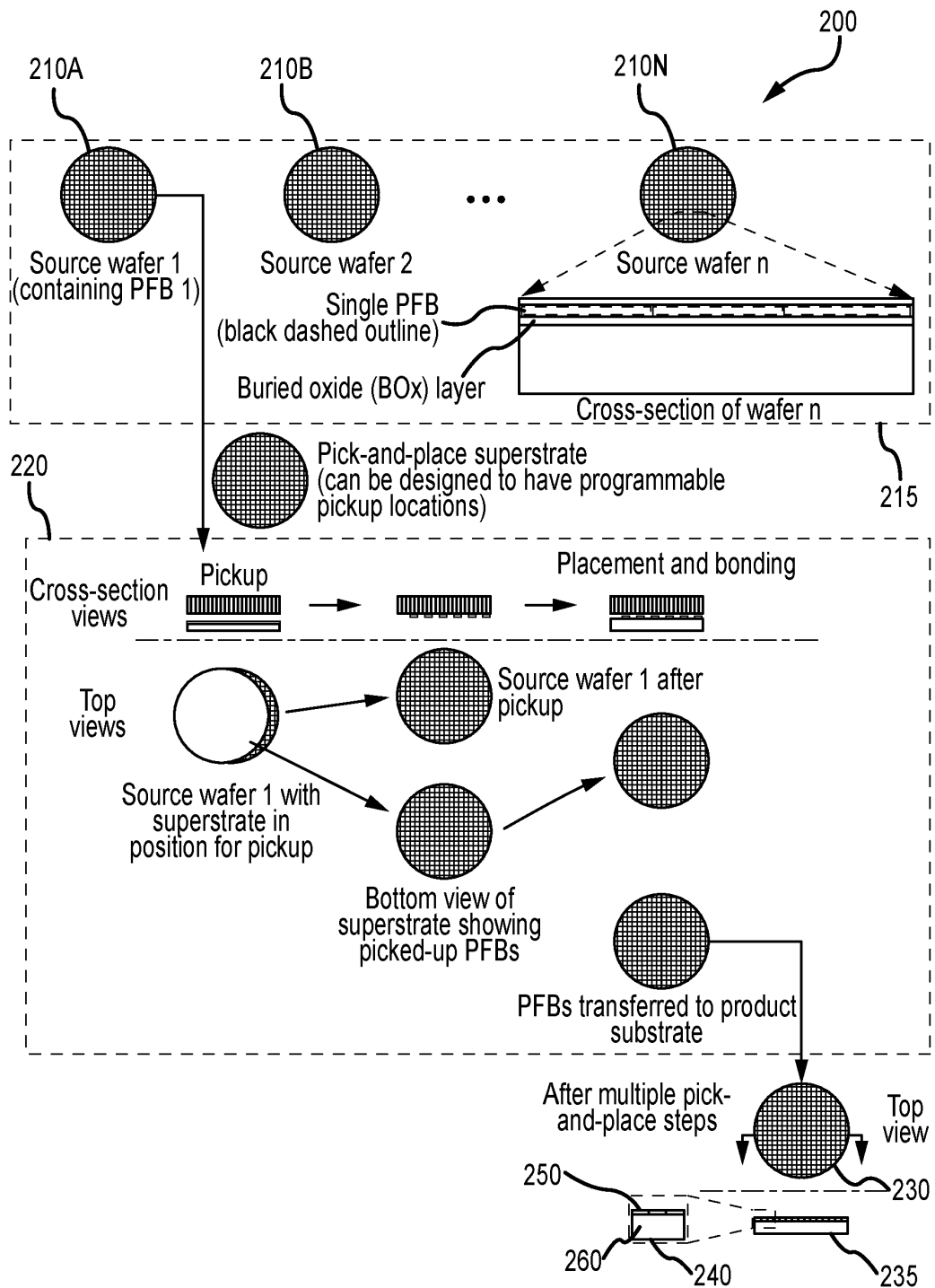


FIG.2

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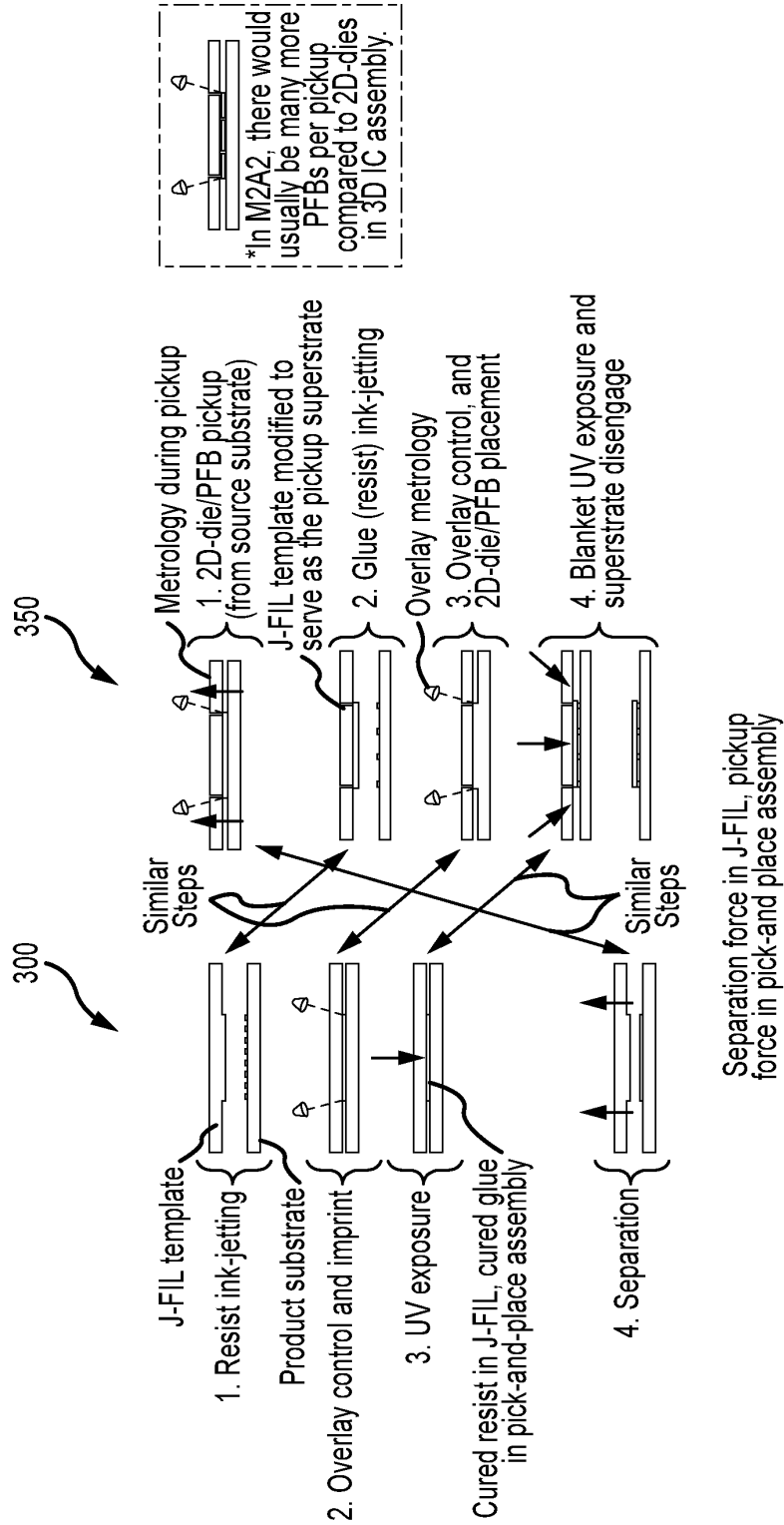


FIG.3

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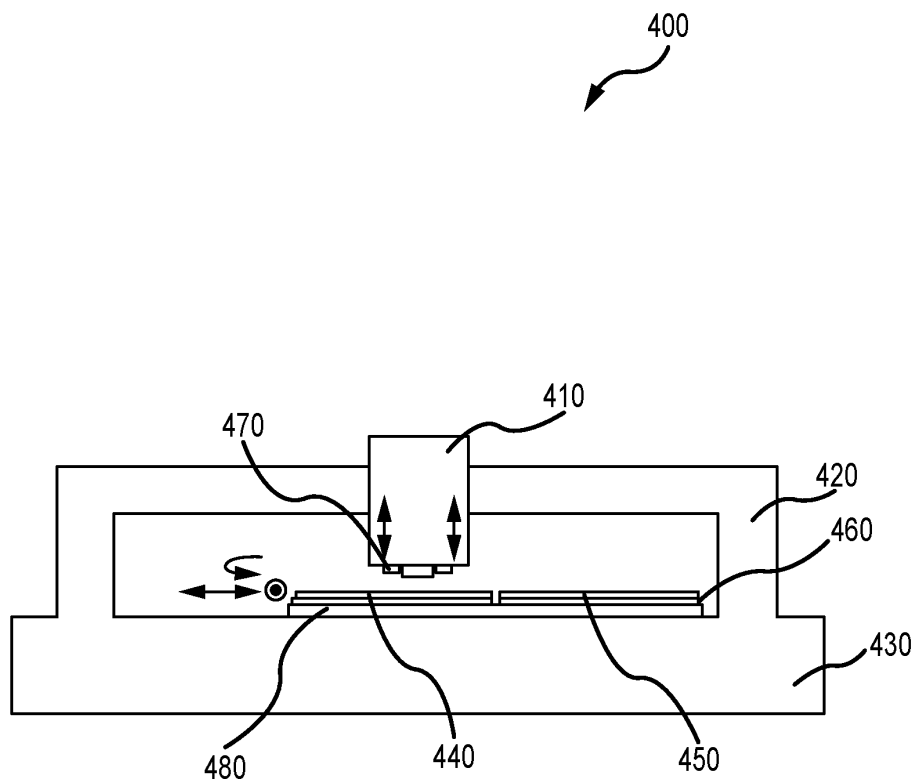
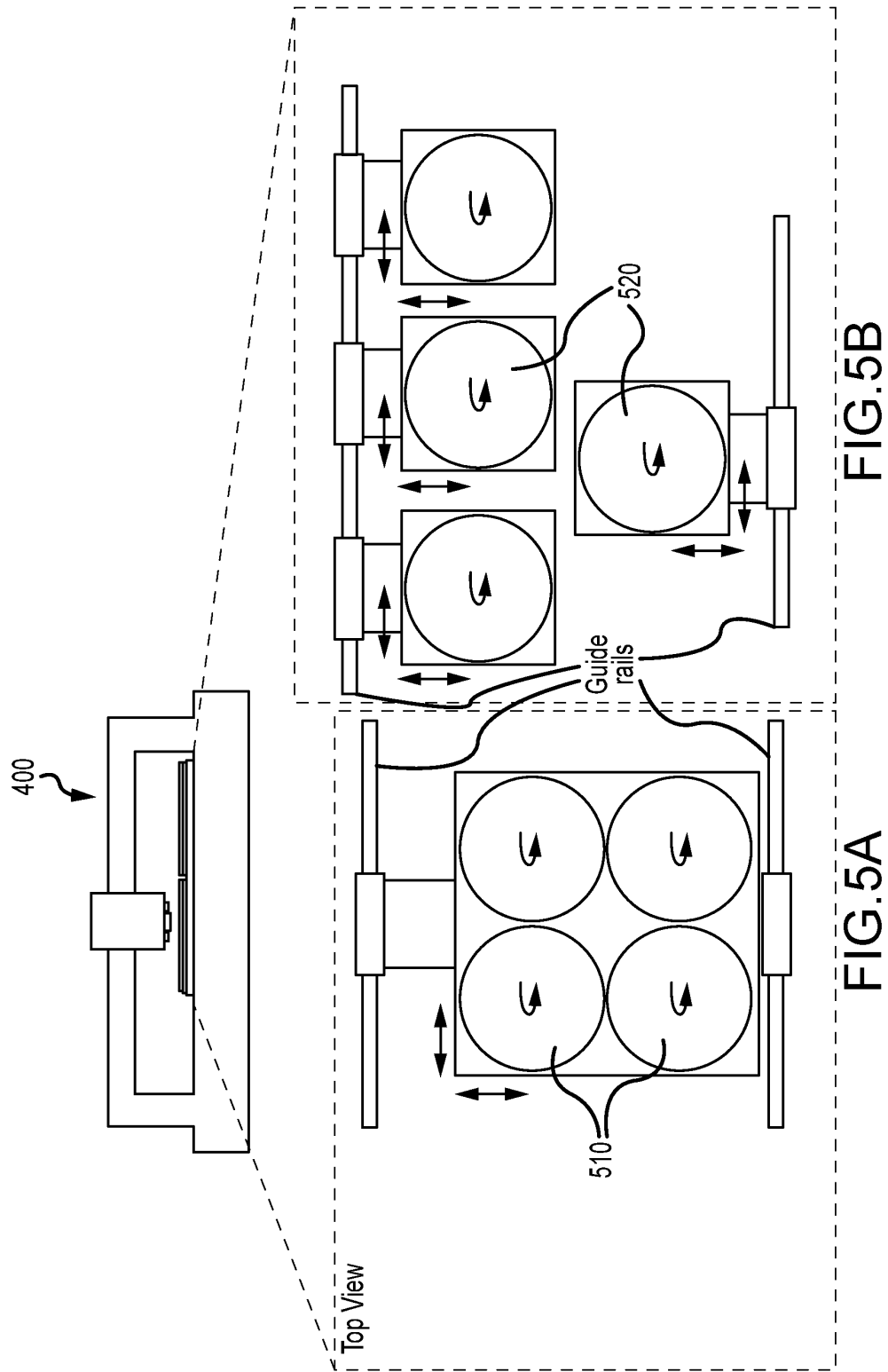


FIG.4



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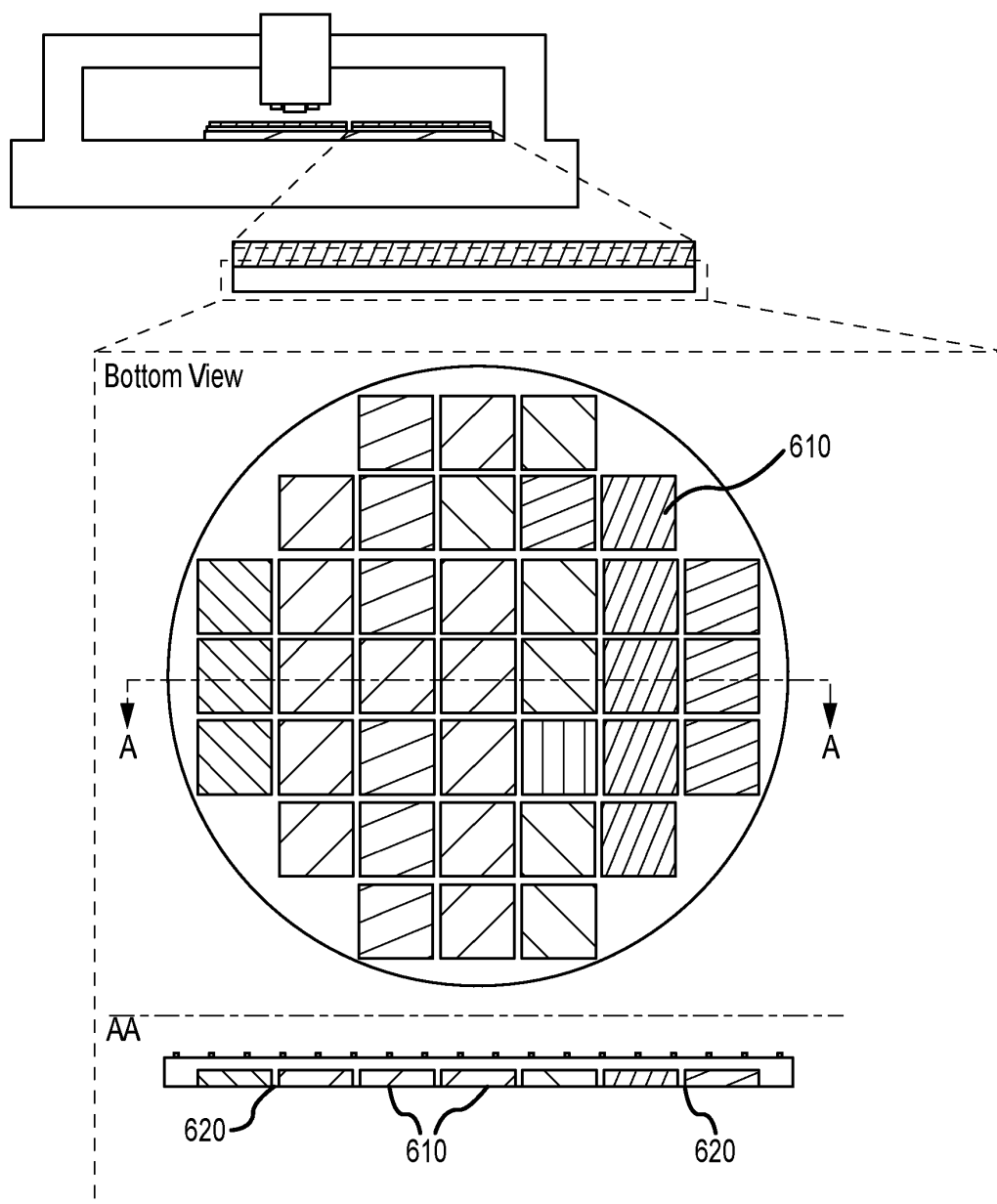


FIG.6

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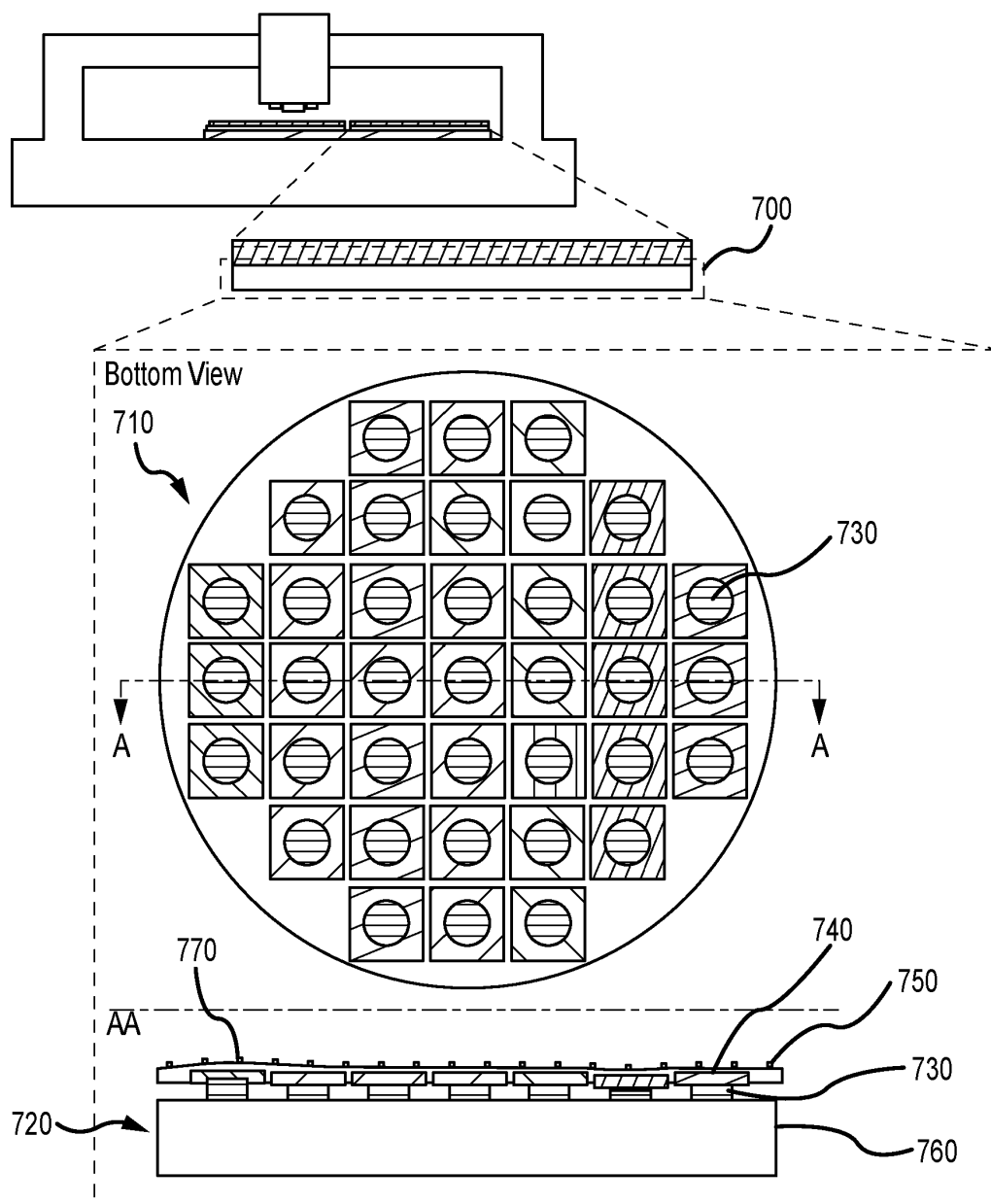


FIG.7

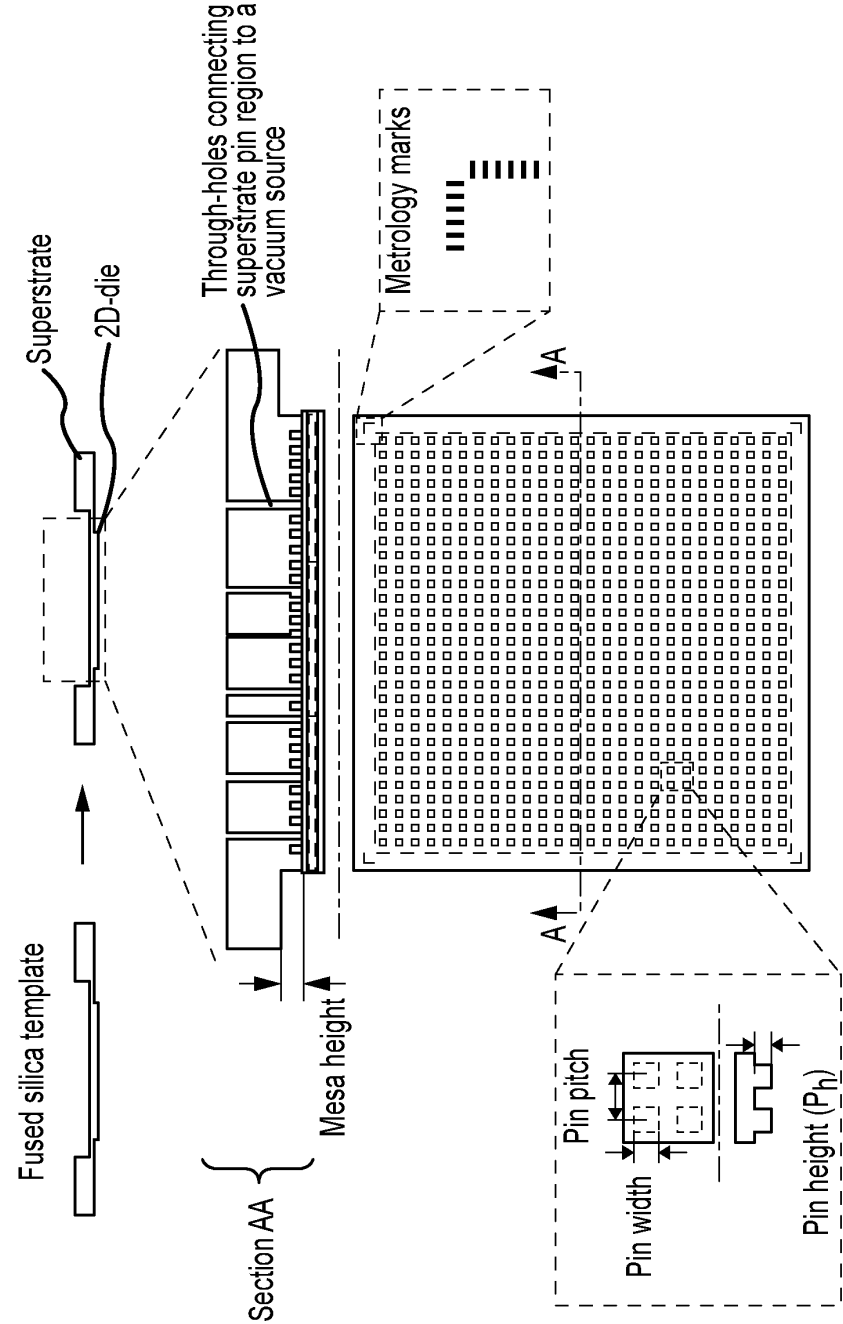


FIG.8

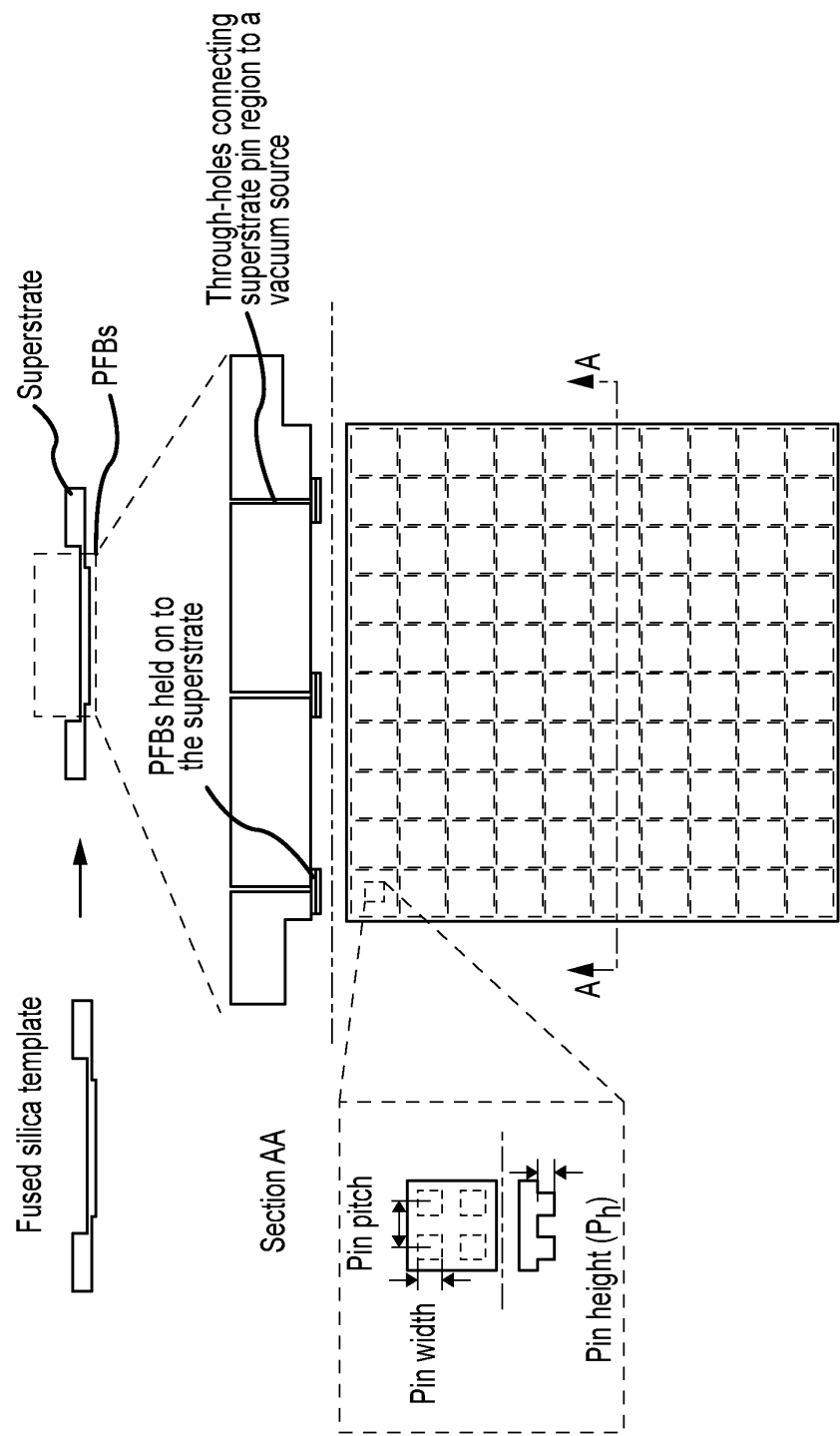


FIG.9

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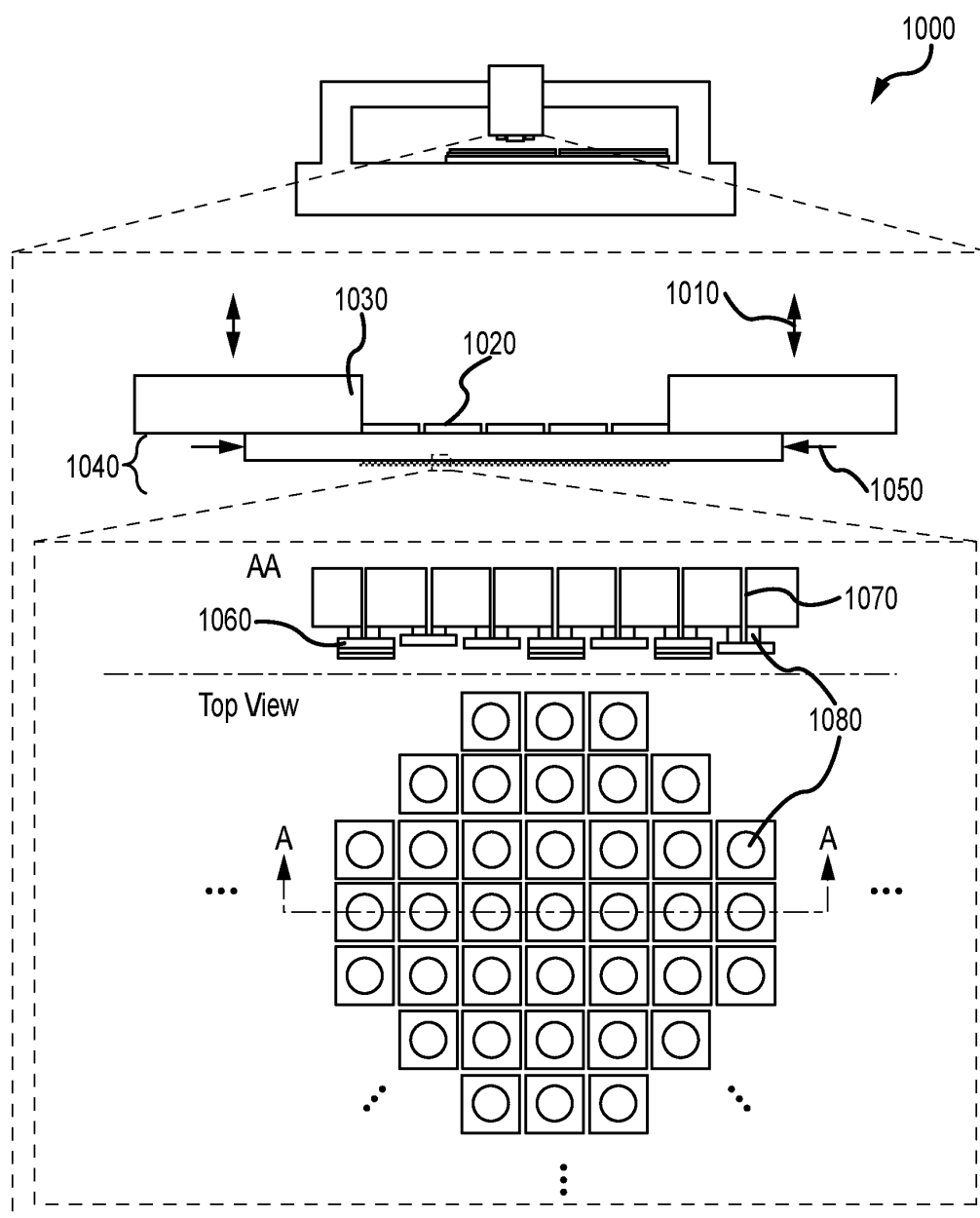


FIG. 10

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1100

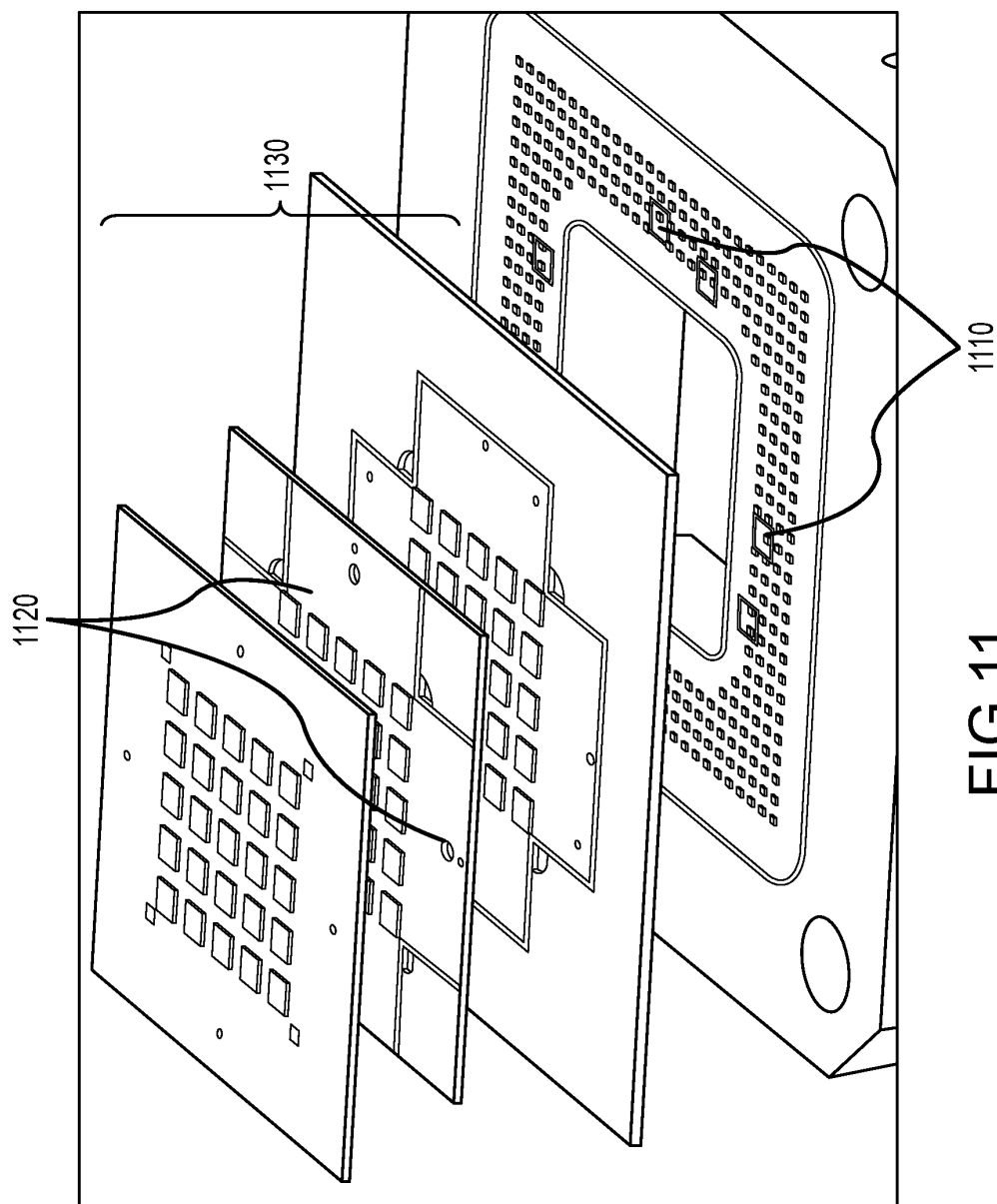


FIG. 11

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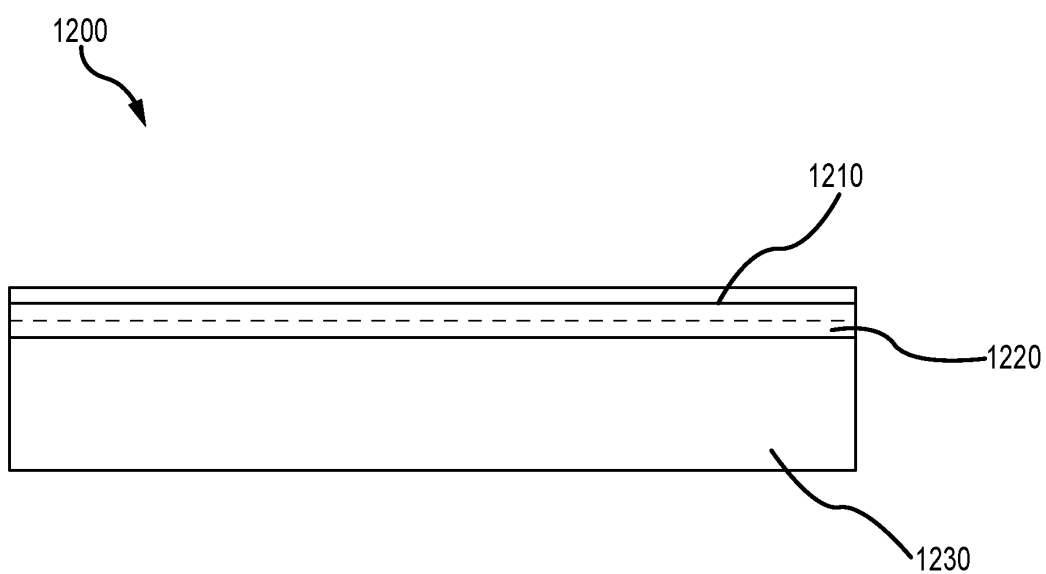
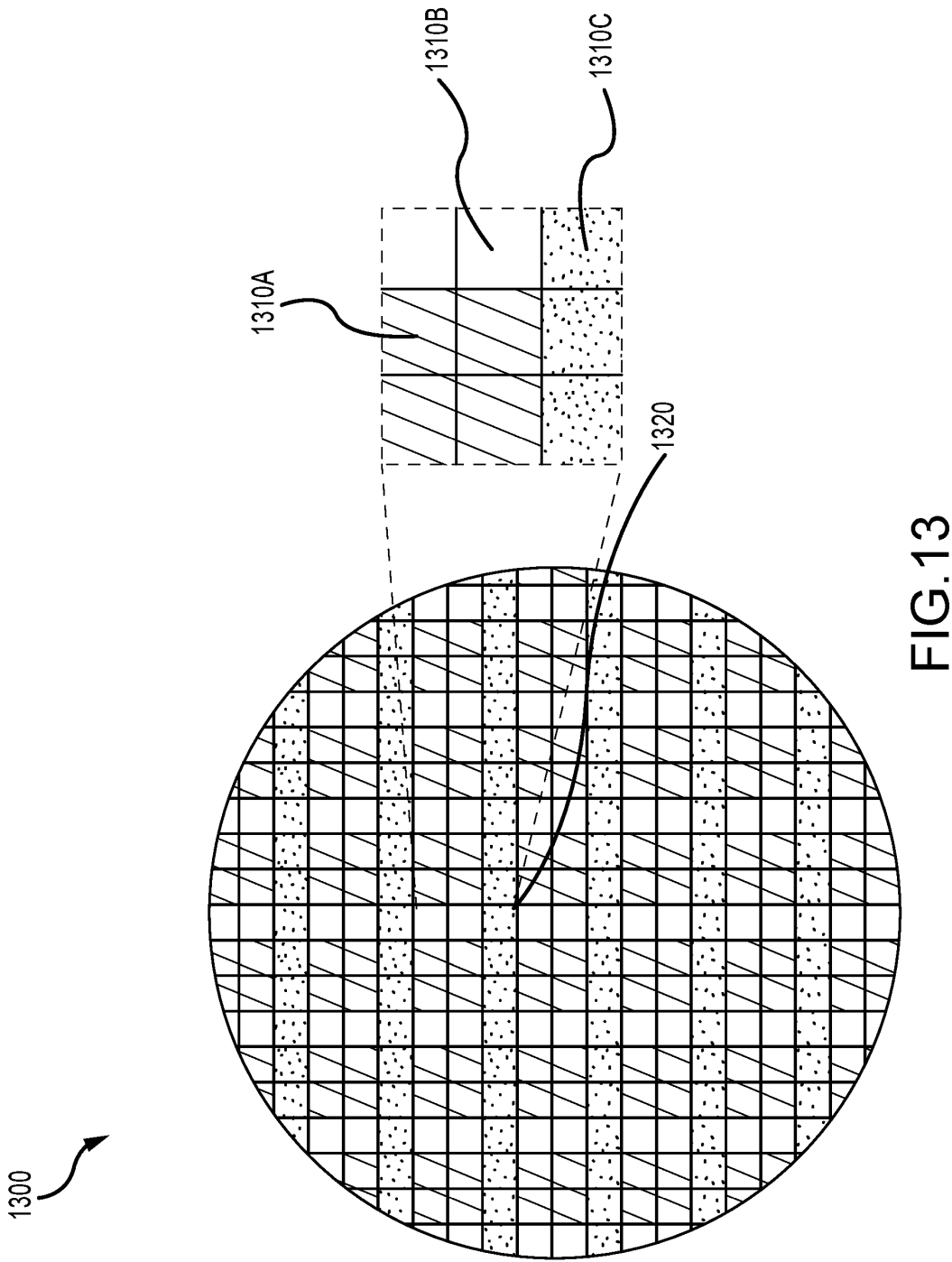


FIG.12

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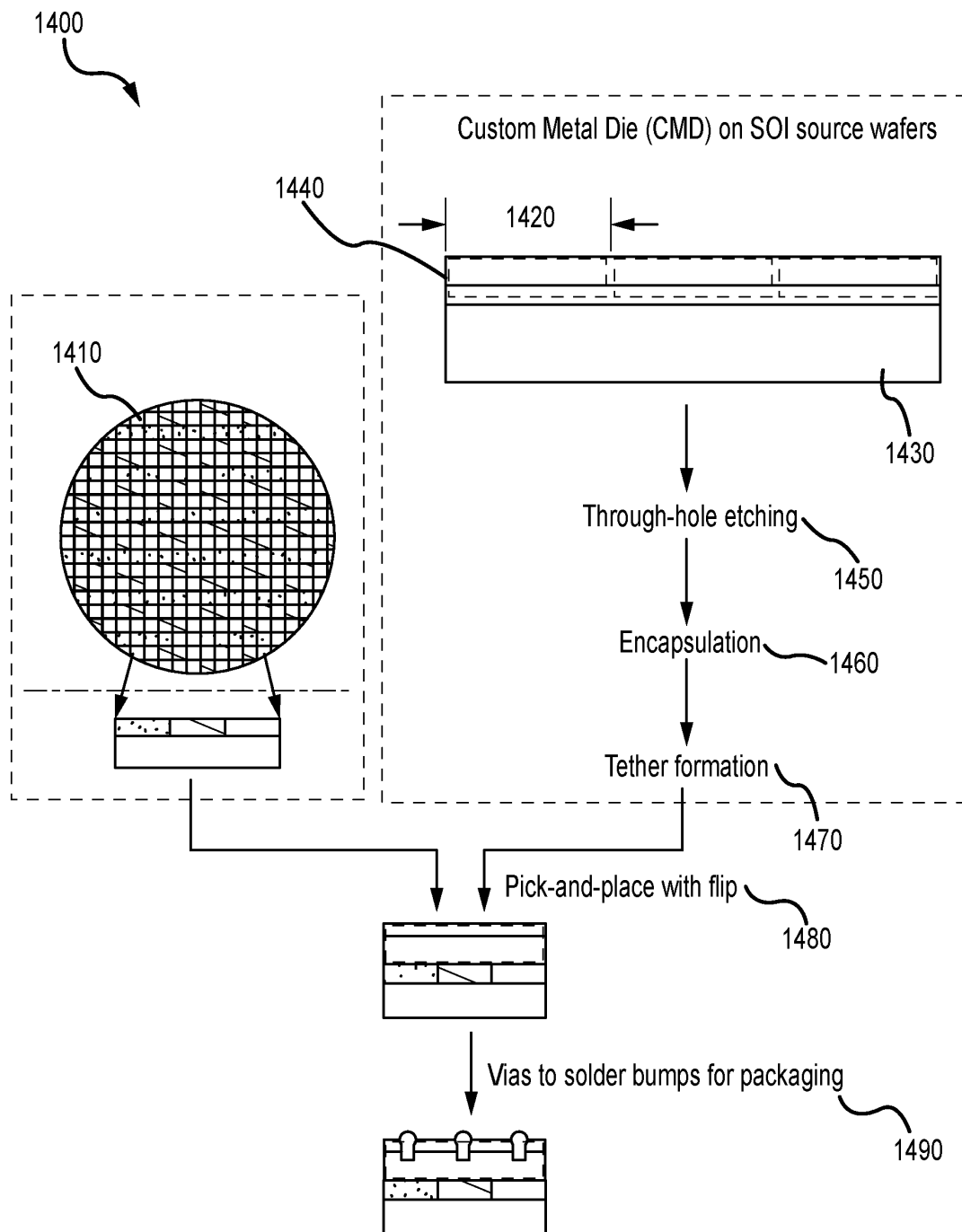
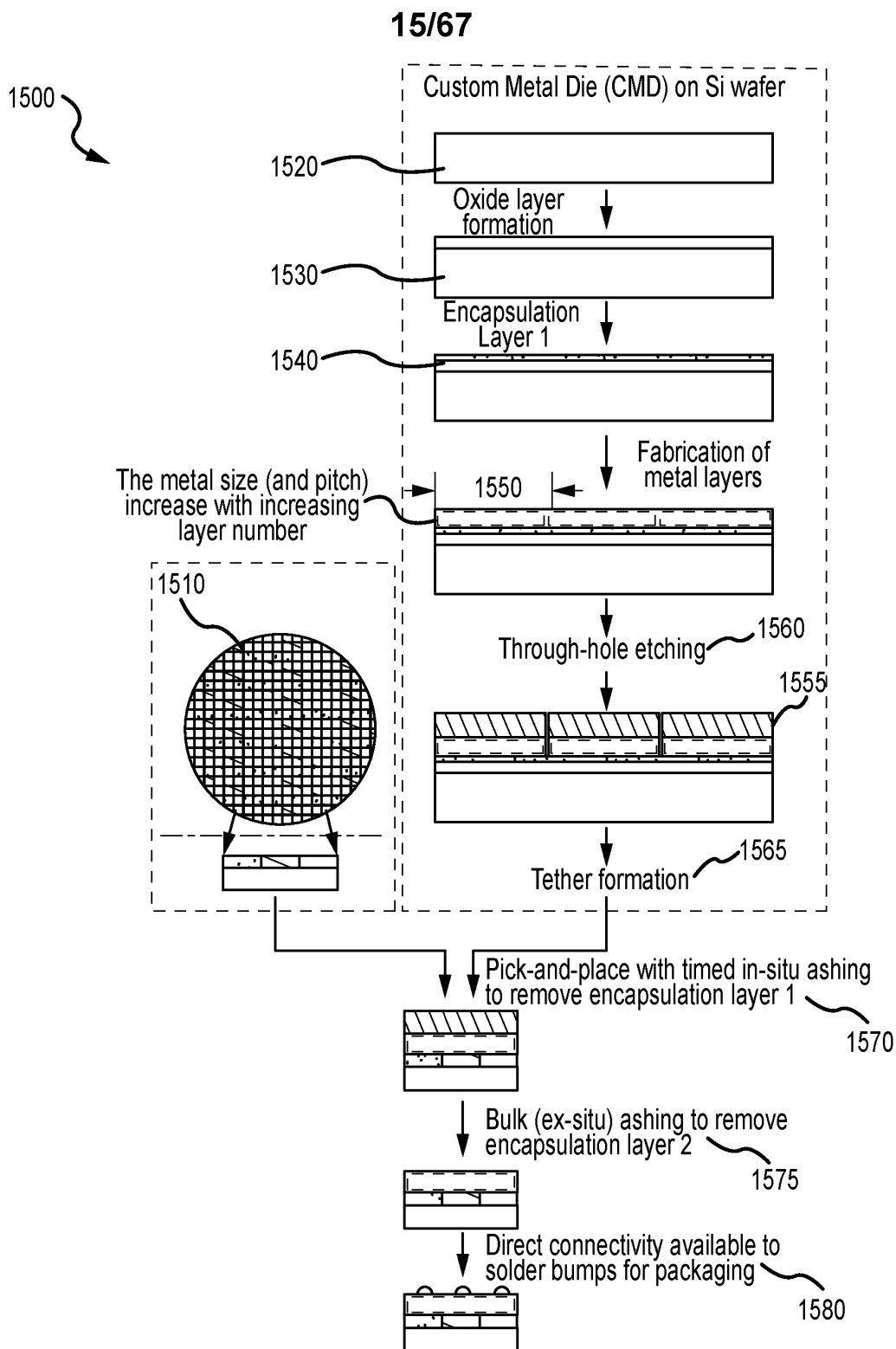


FIG.14

**FIG.15**

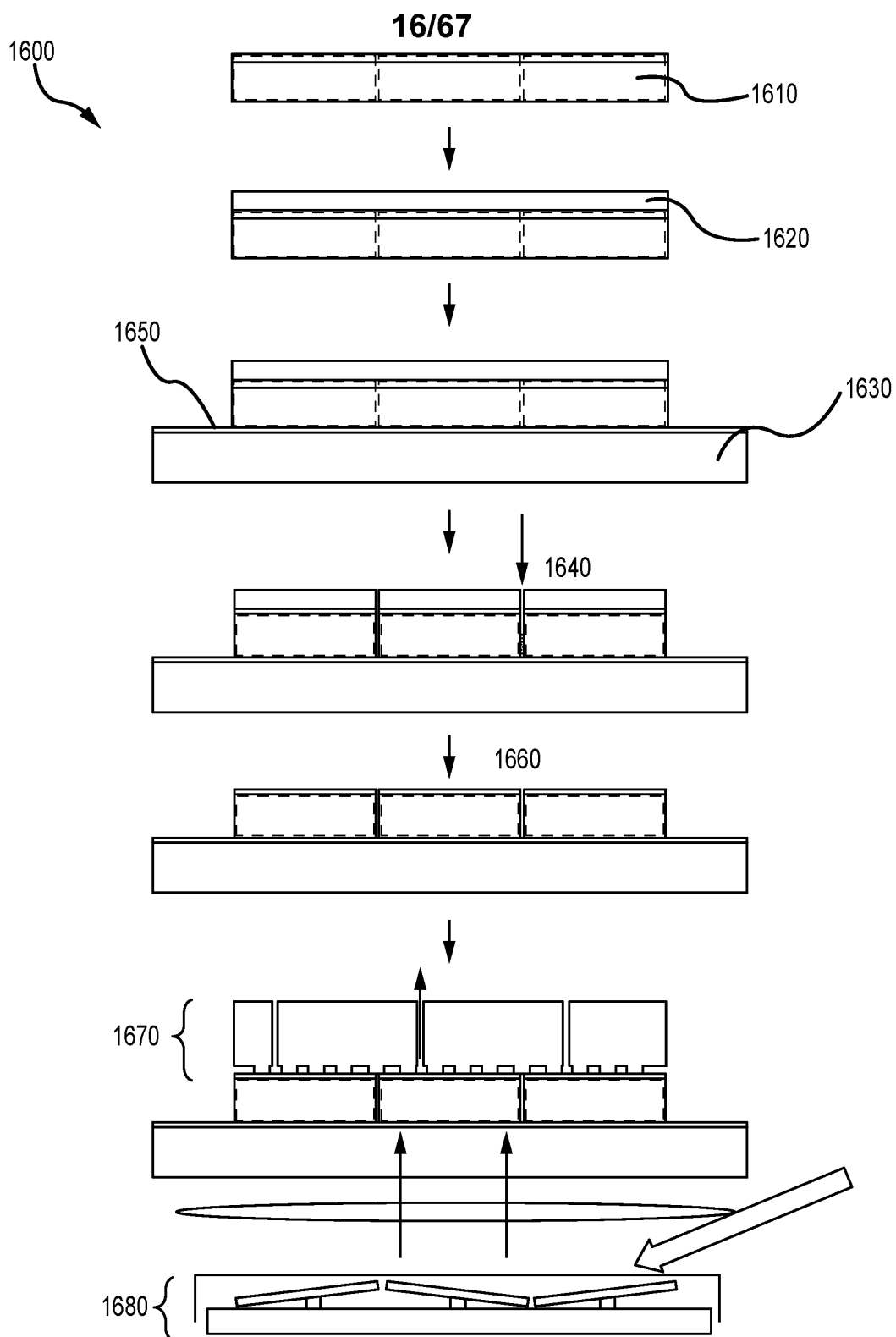


FIG.16

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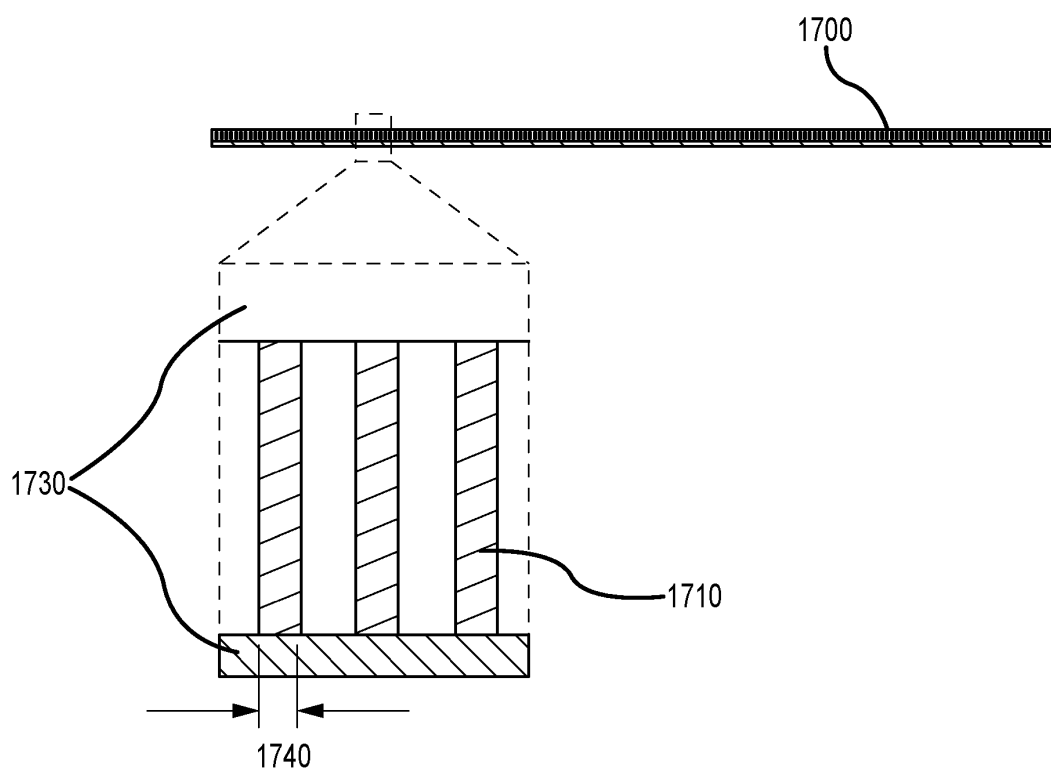


FIG.17

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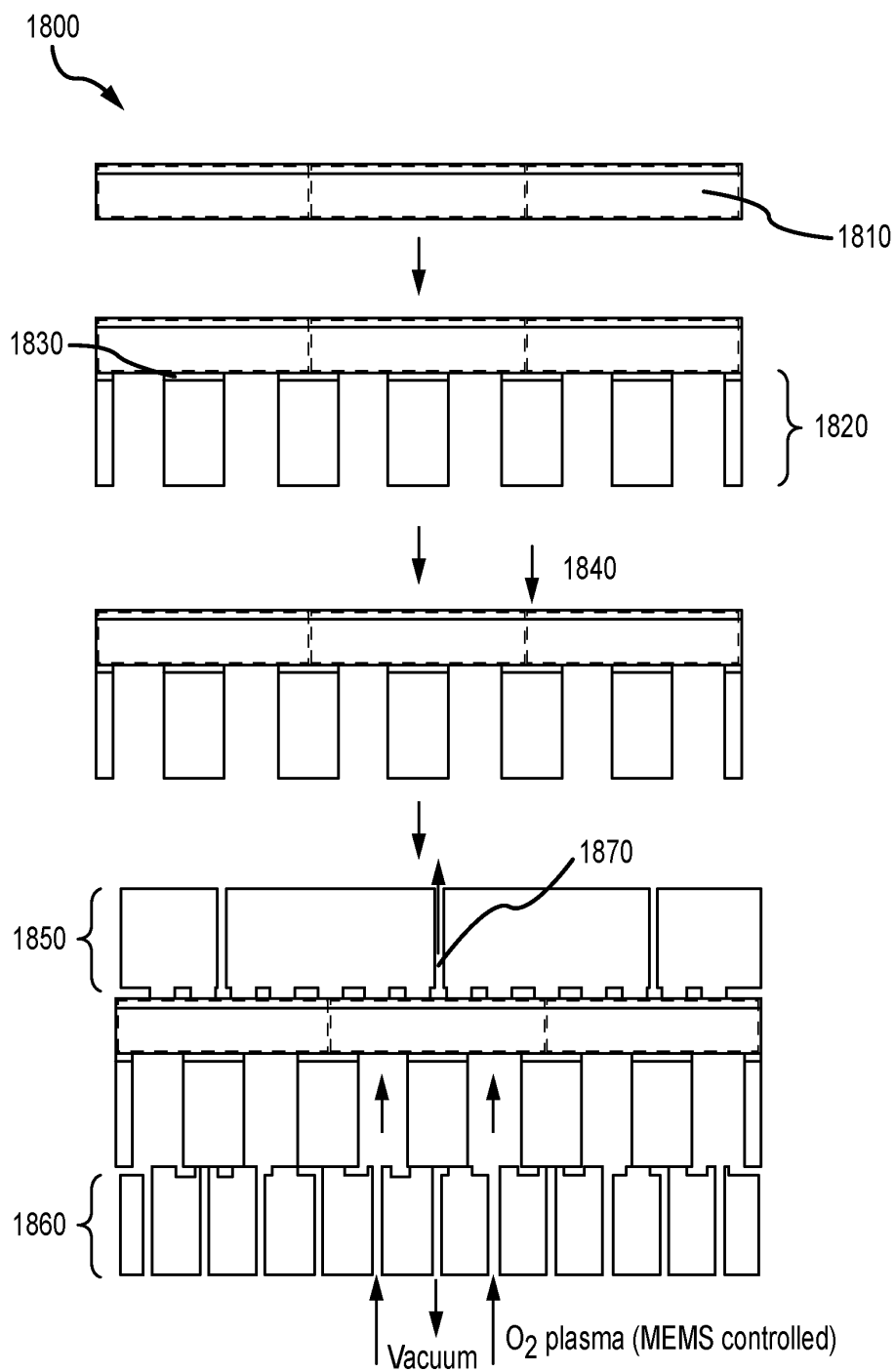


FIG.18

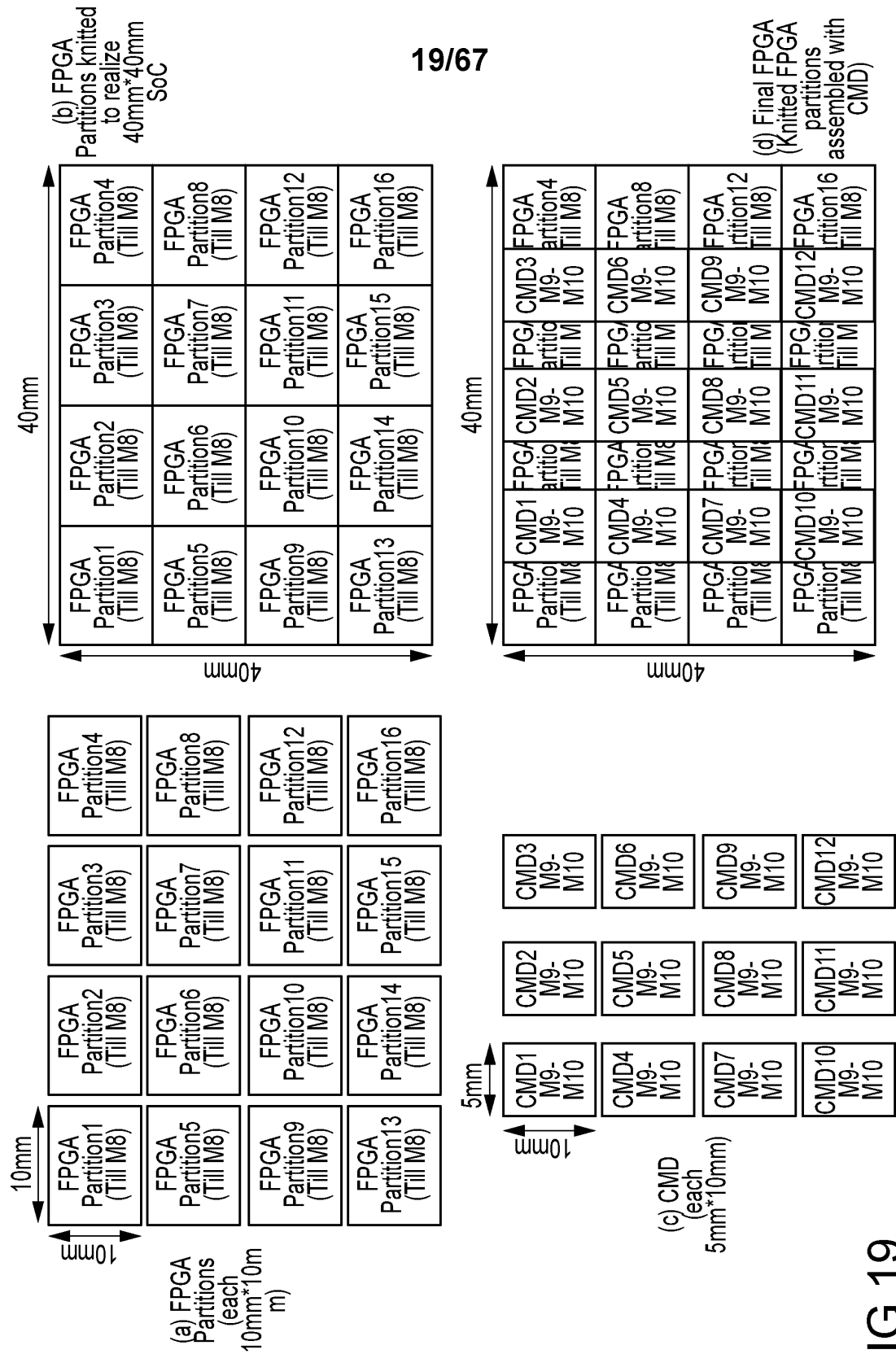
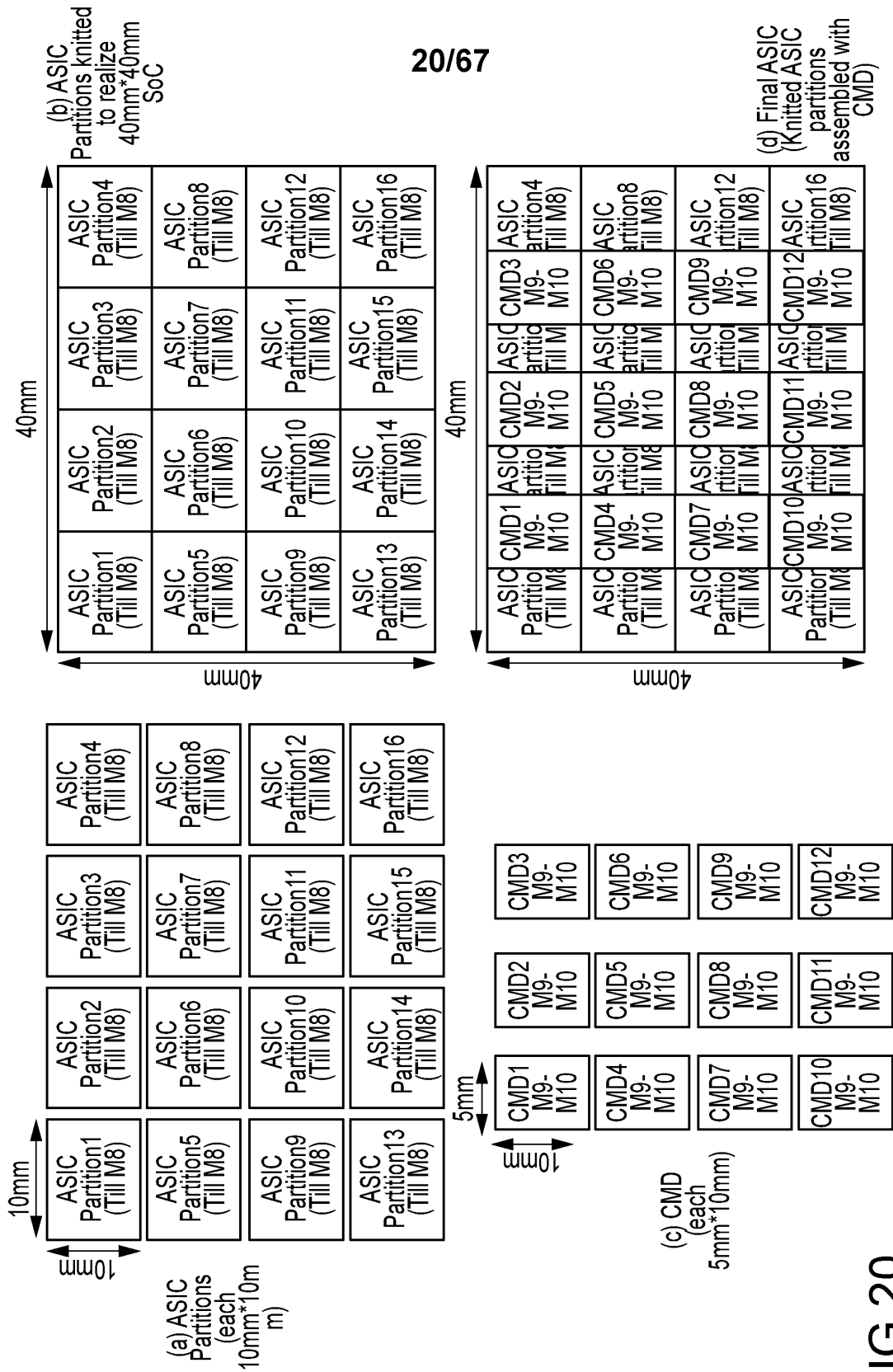


FIG. 19



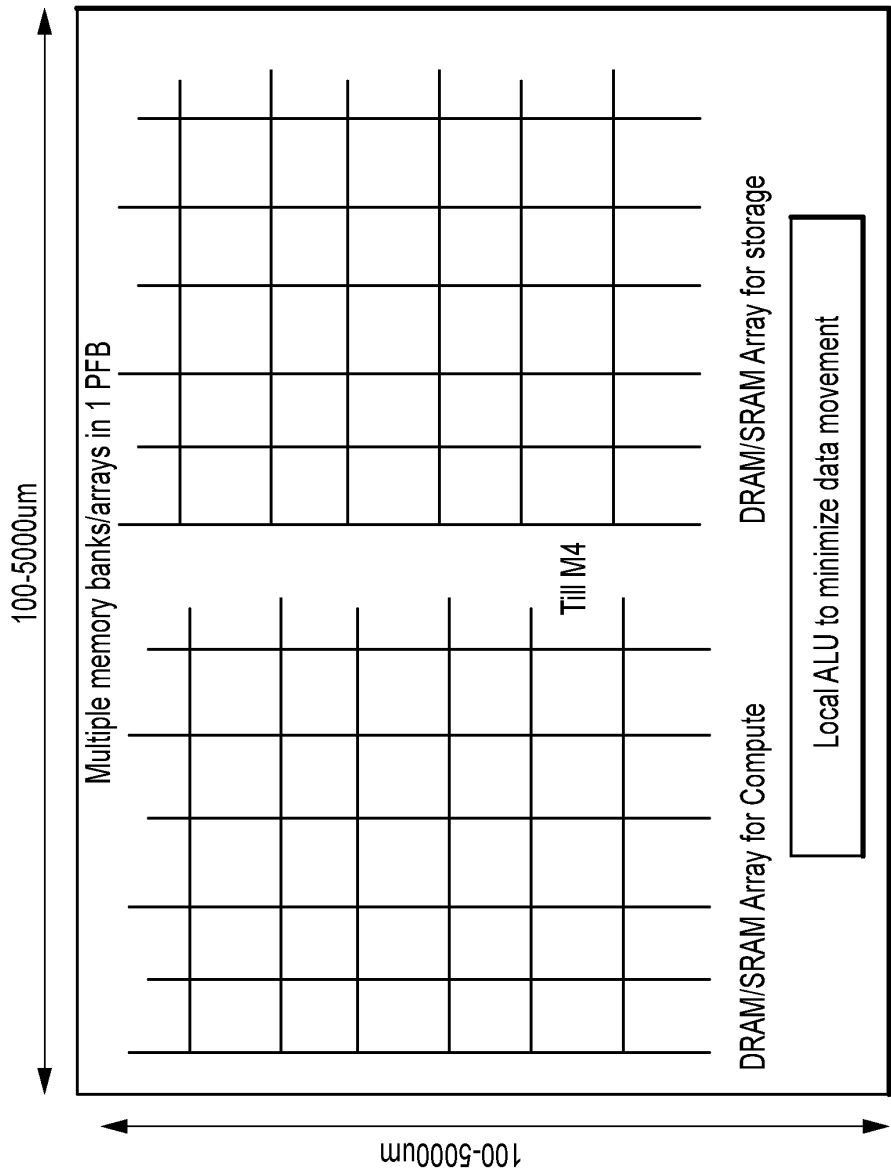


FIG.21

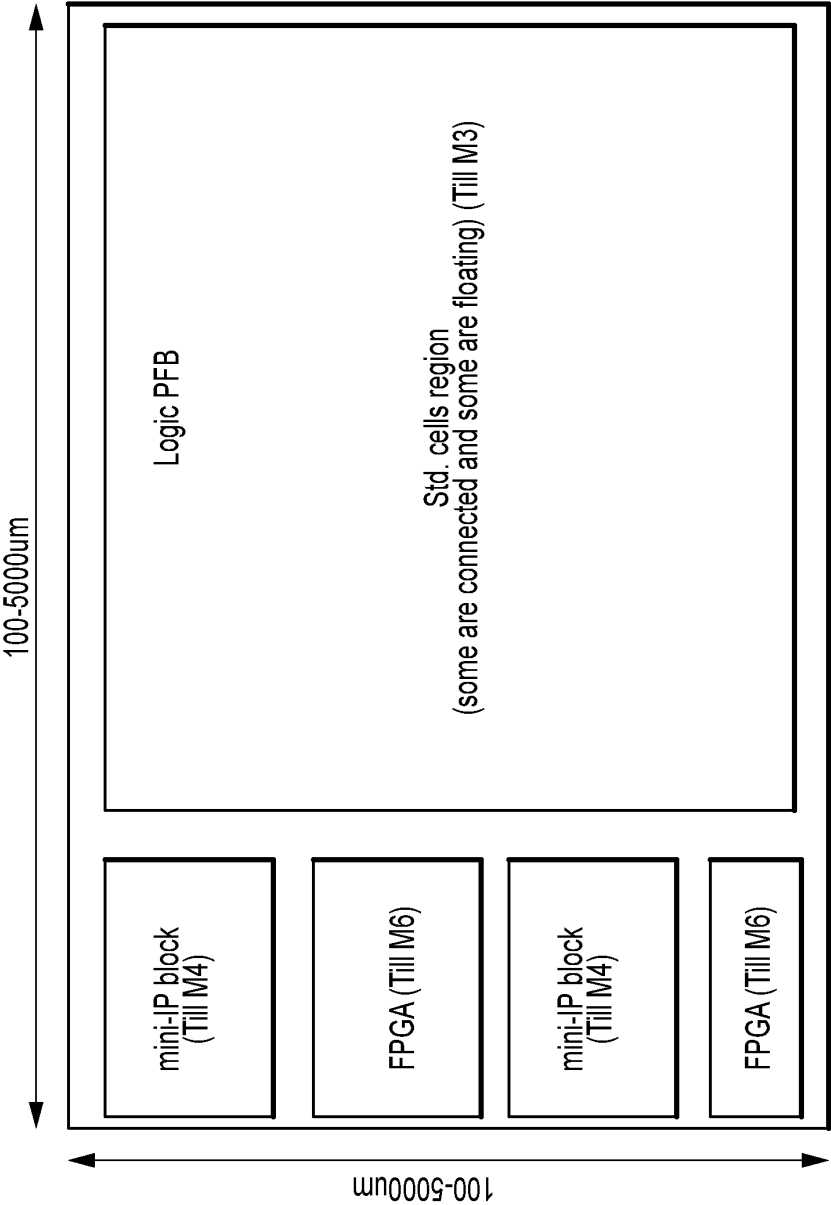


FIG.22

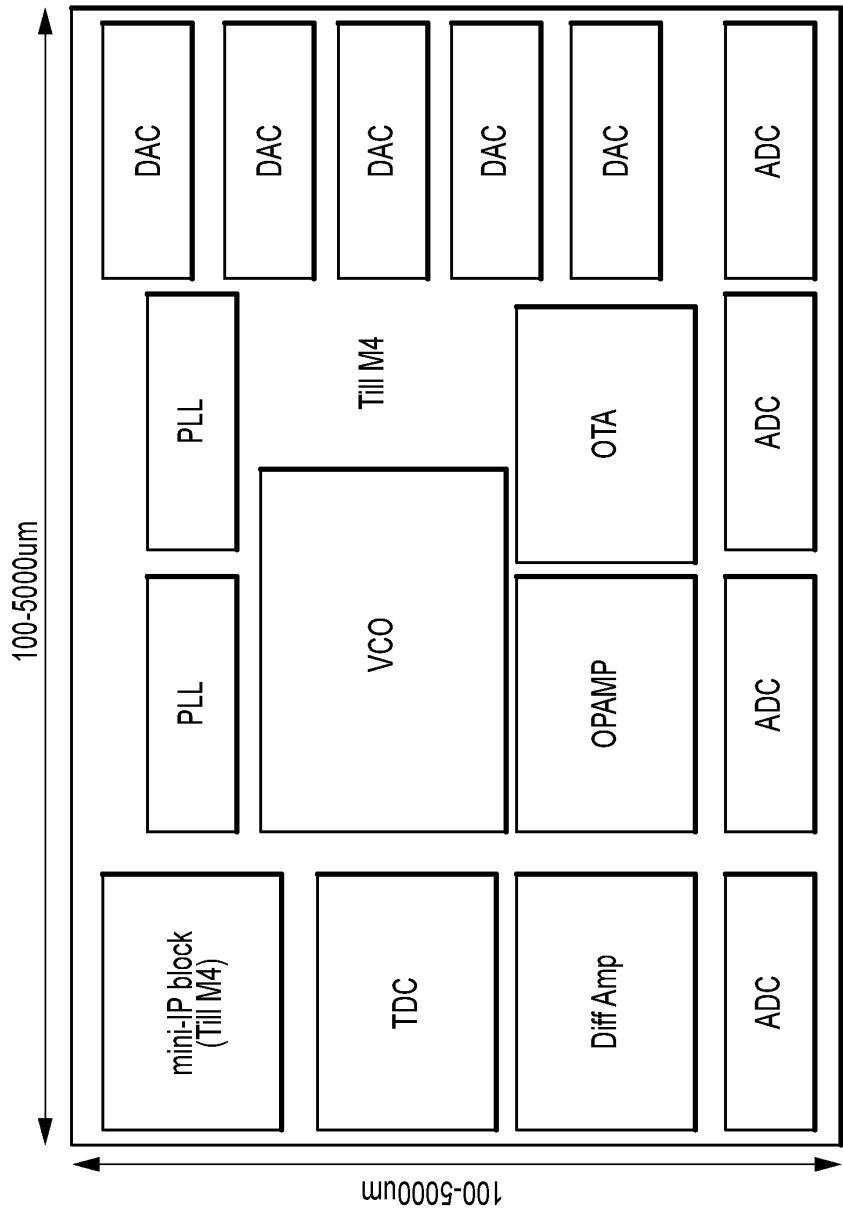
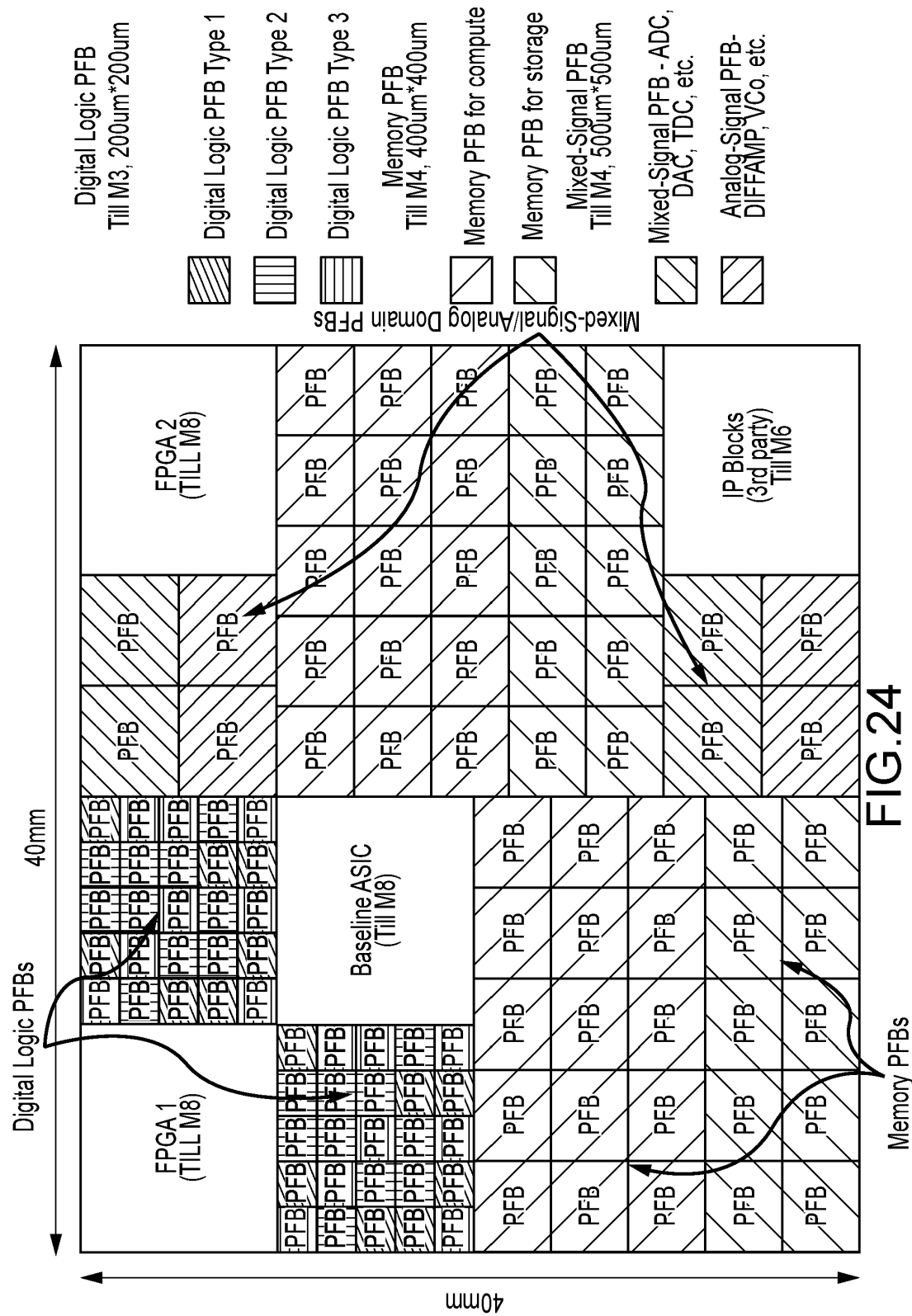


FIG.23



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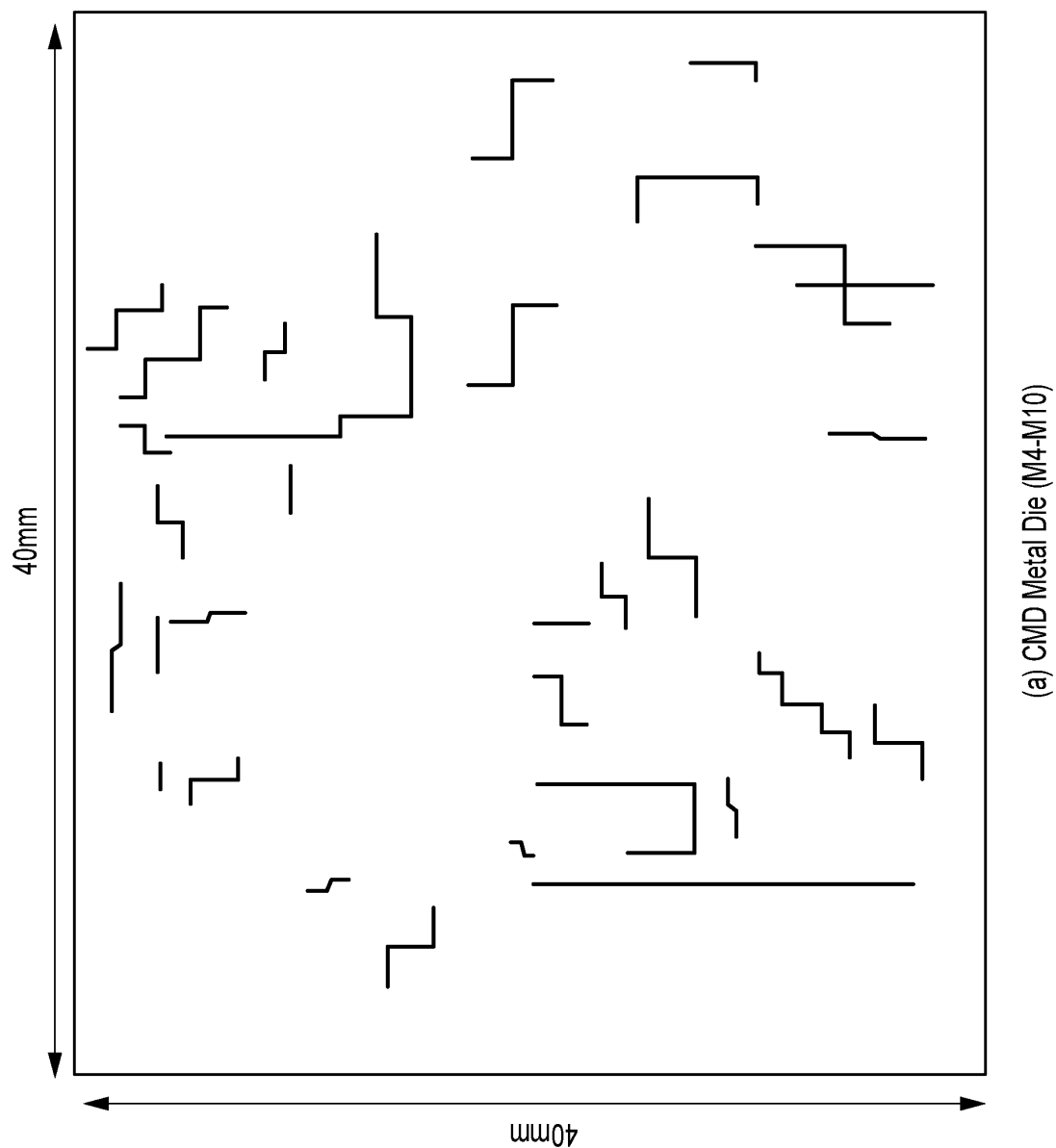
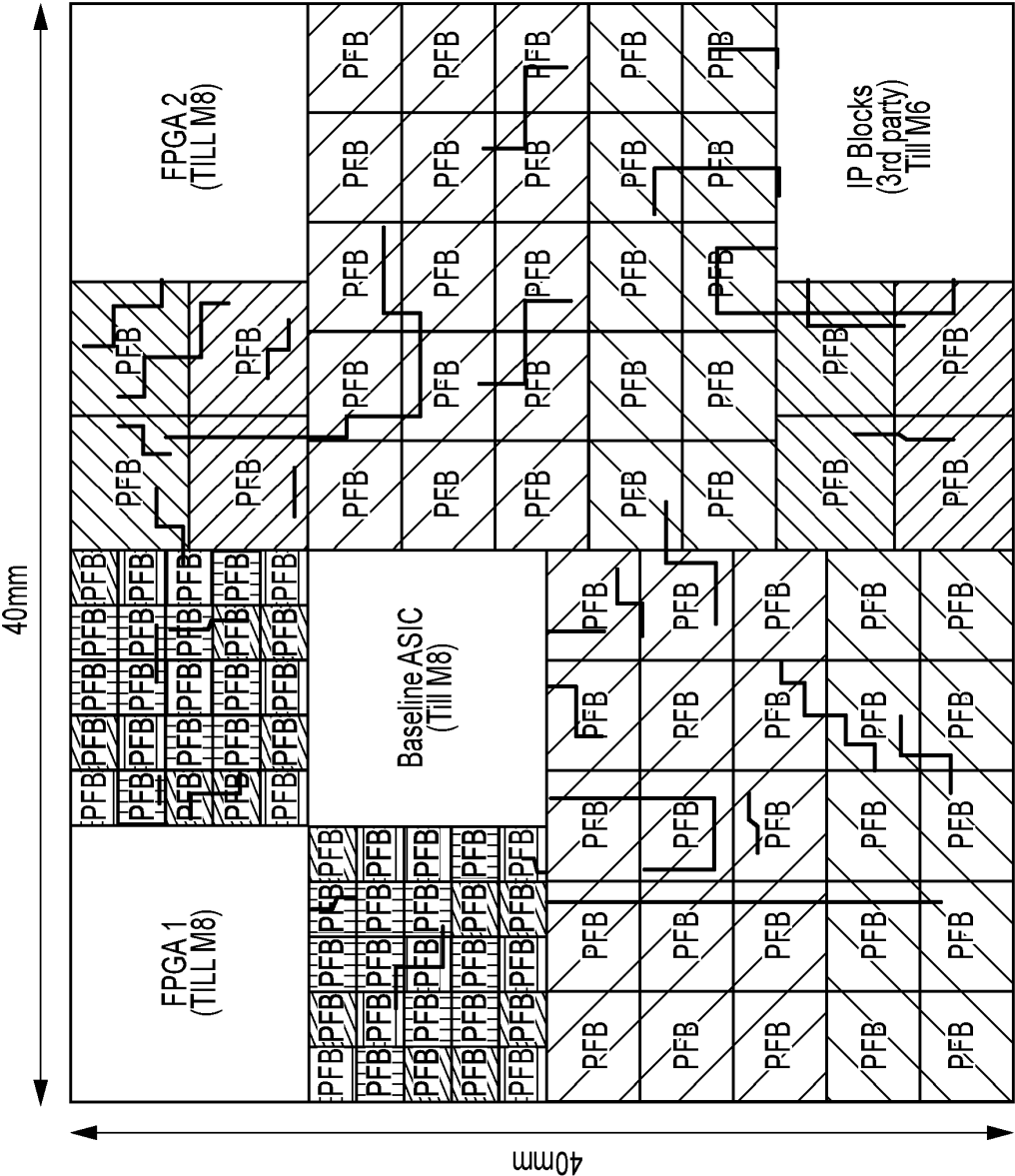


FIG. 25



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

FIG.25
CONTINUED

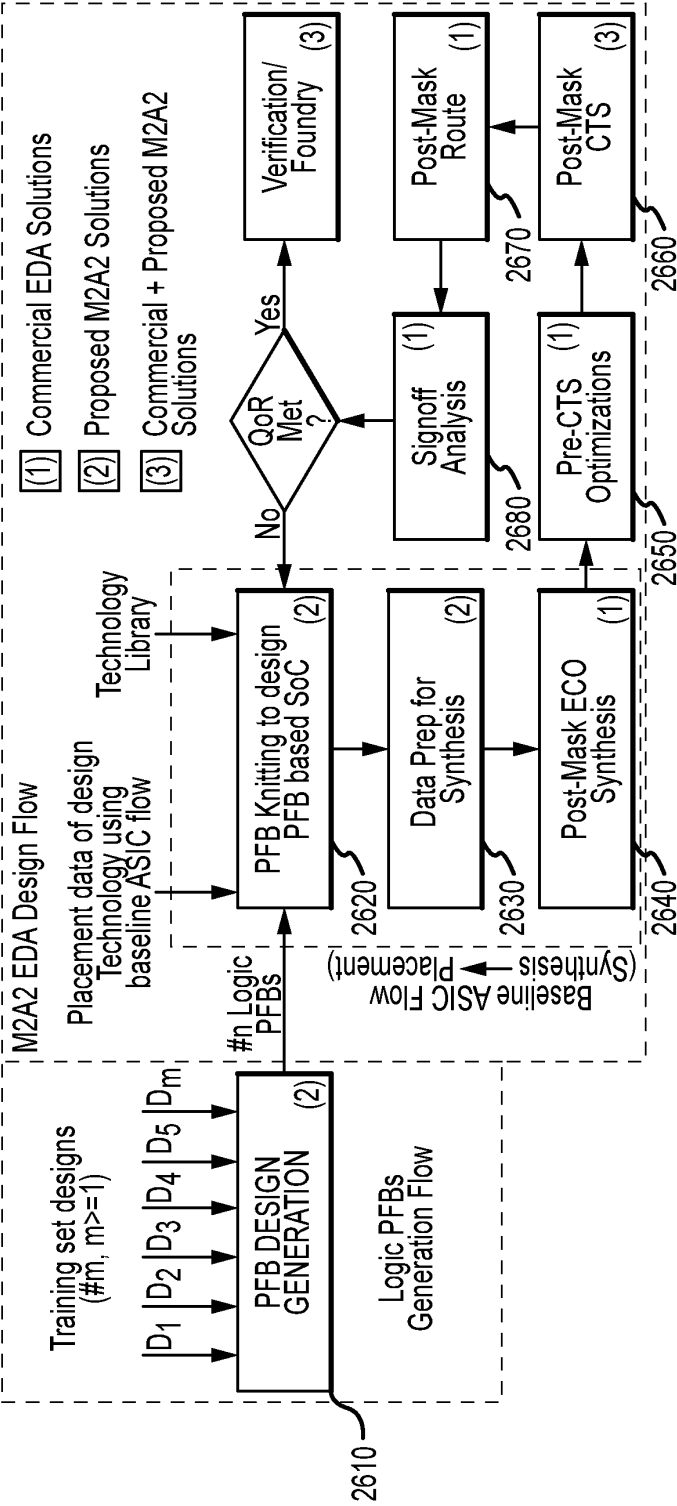


FIG.26

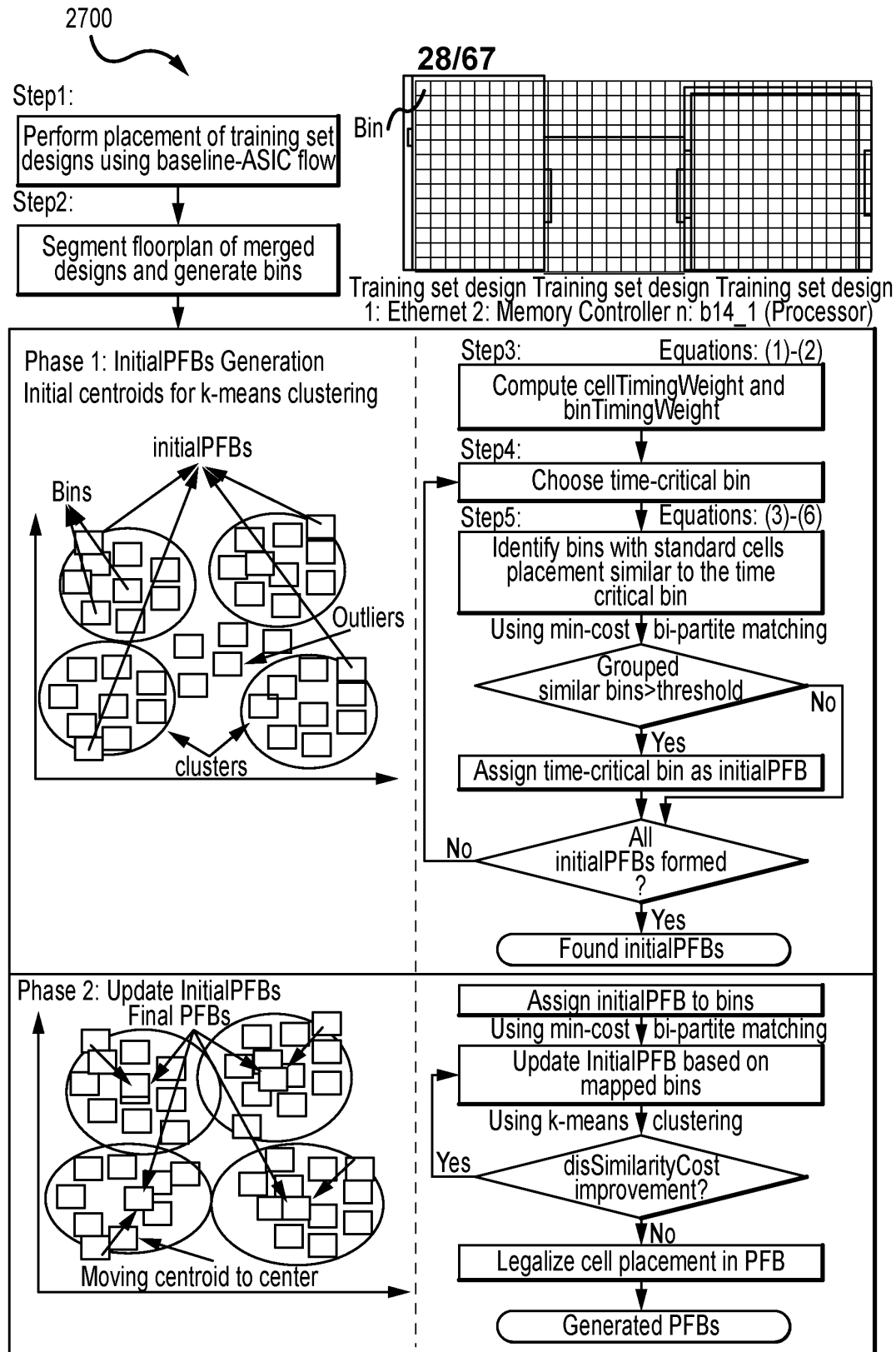


FIG.27

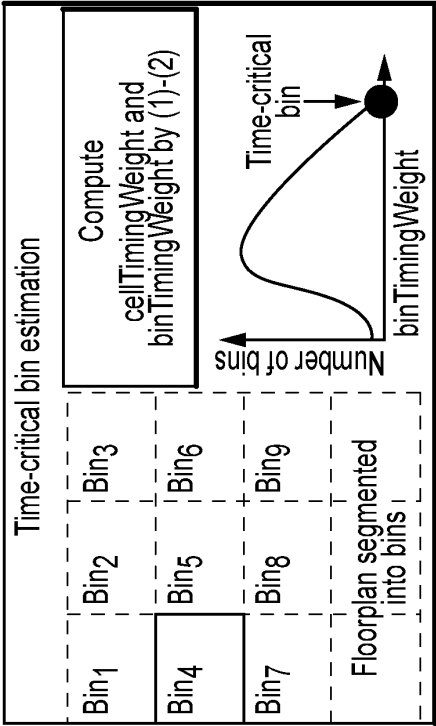


FIG.28A

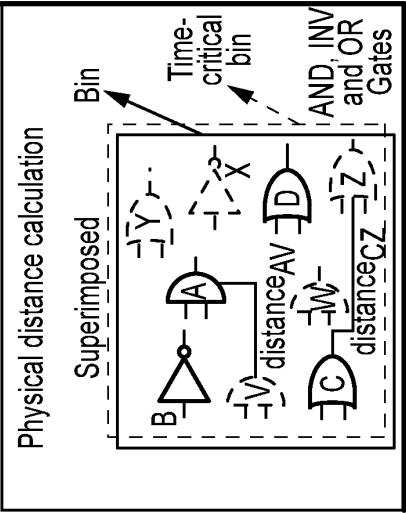


FIG.28B

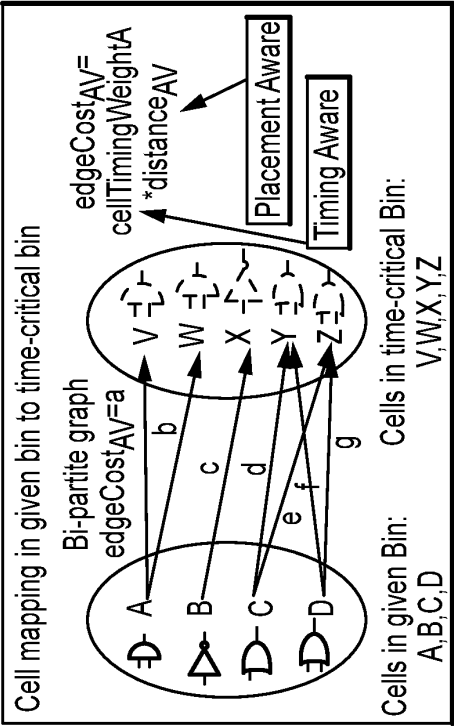


FIG.28C

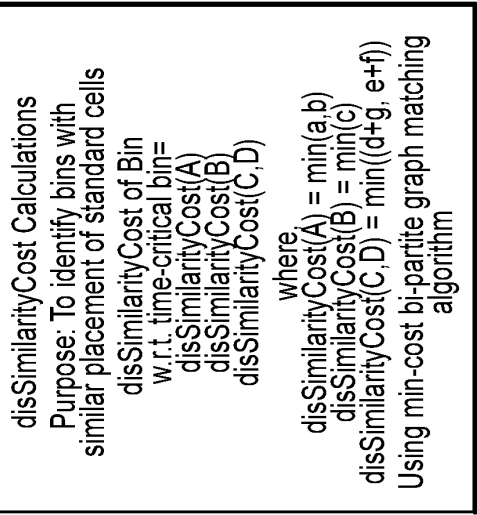


FIG.28D

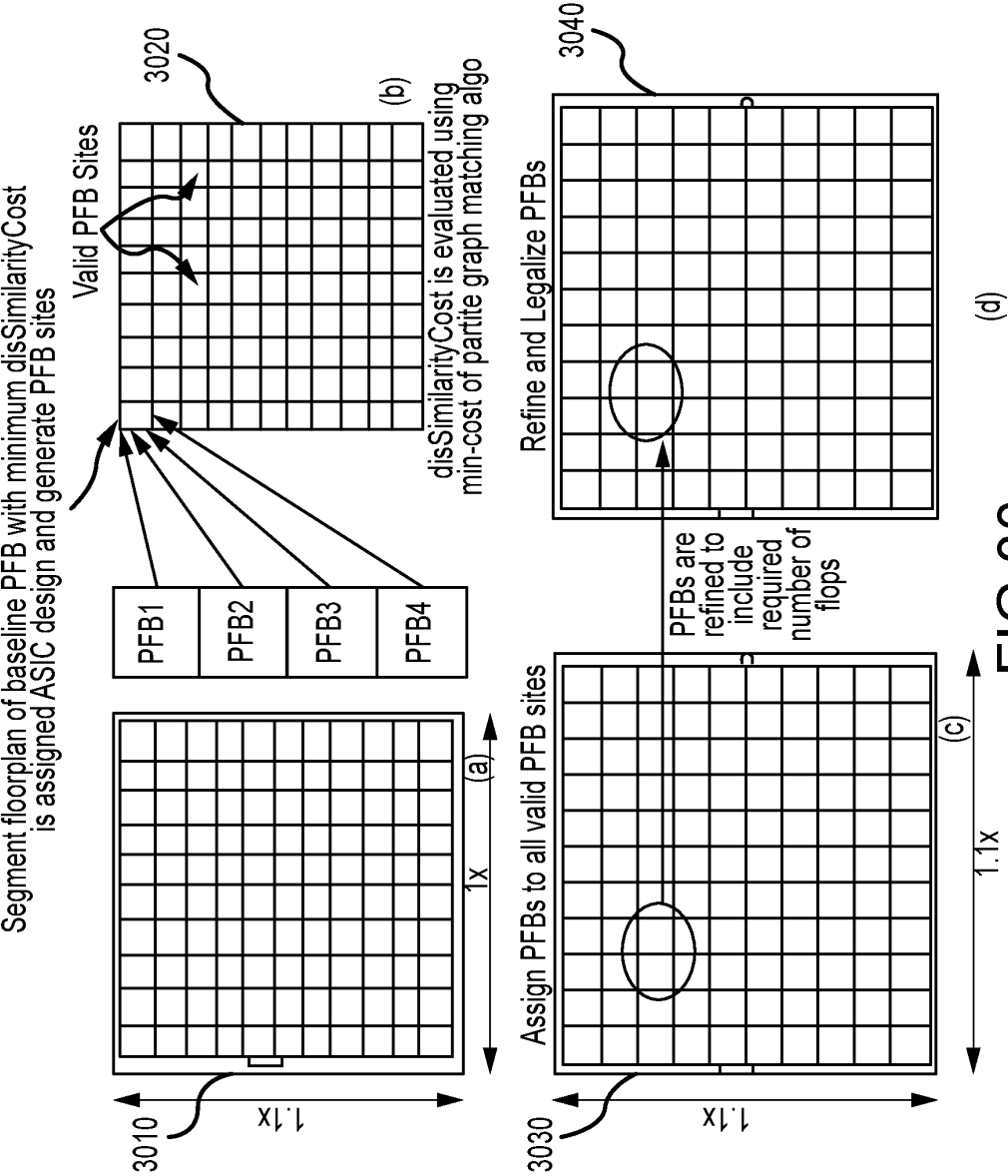


FIG.30

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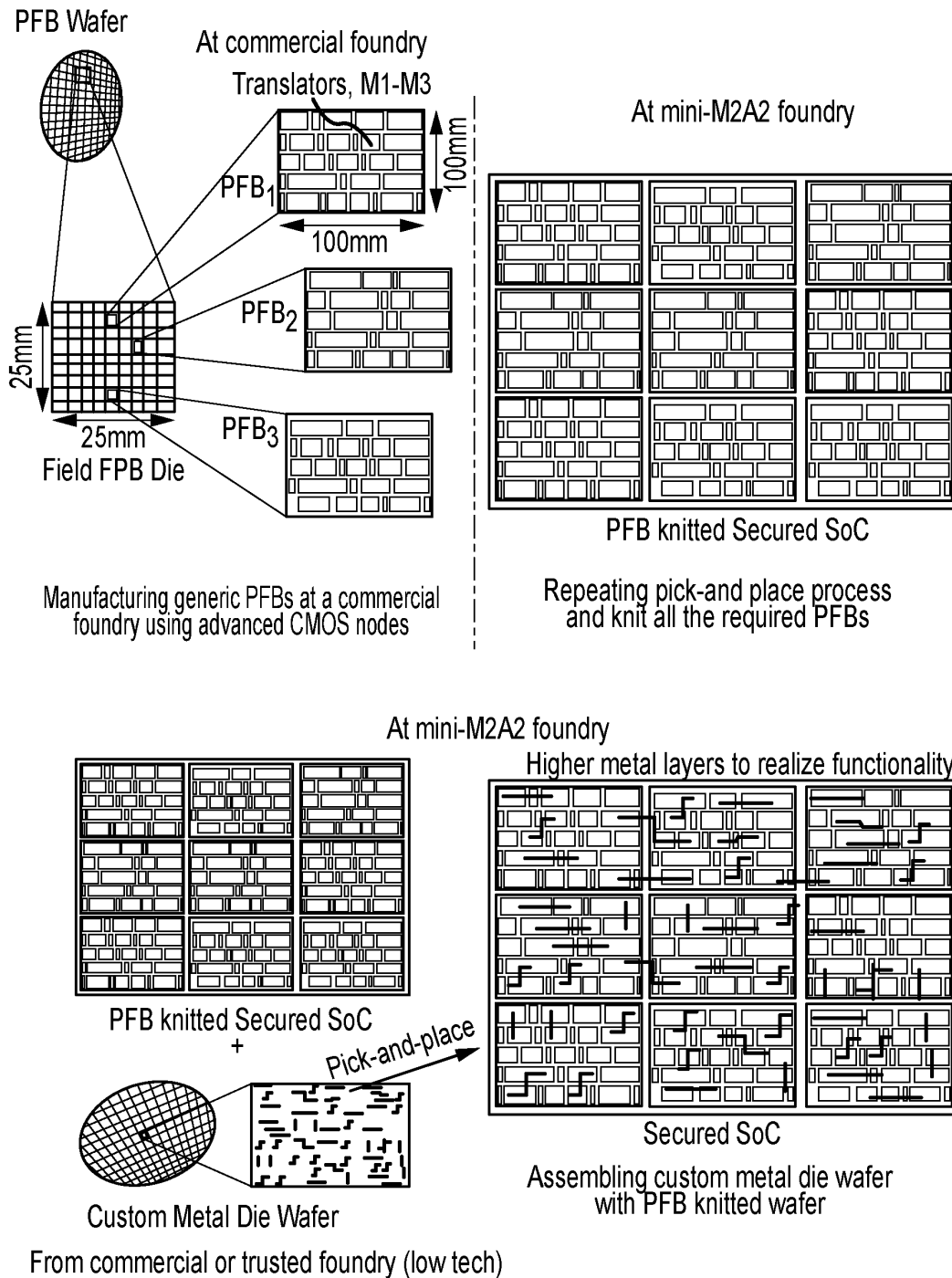


FIG.31

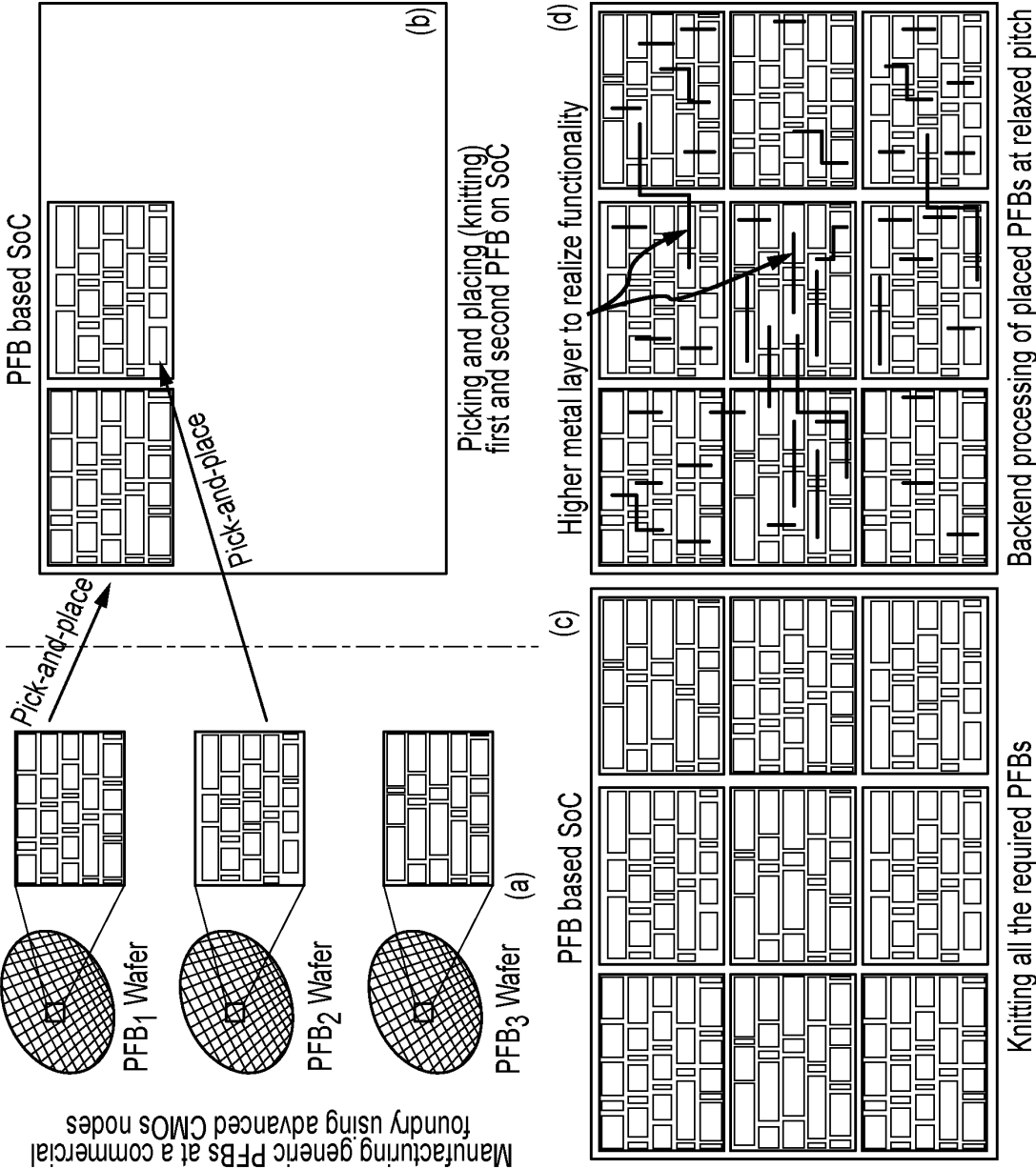


FIG. 32

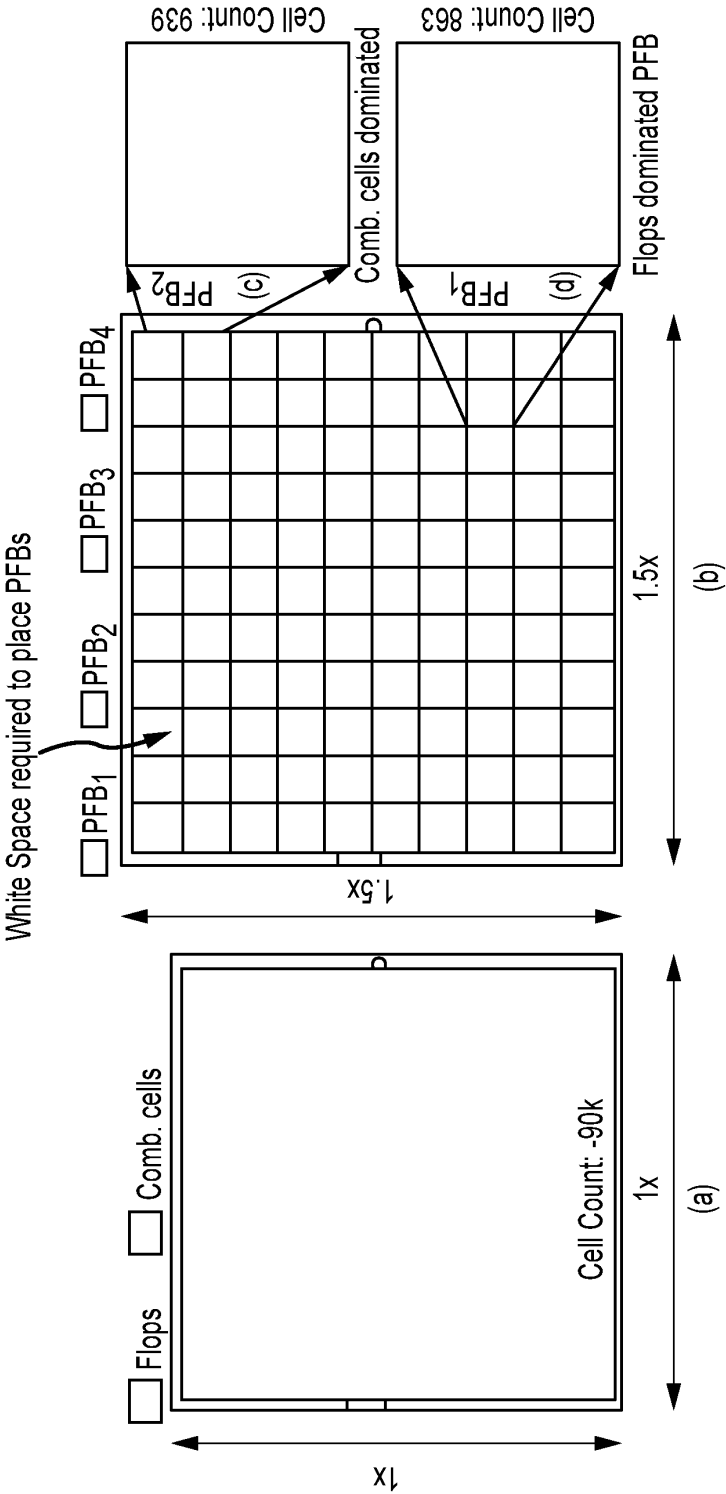


FIG.33

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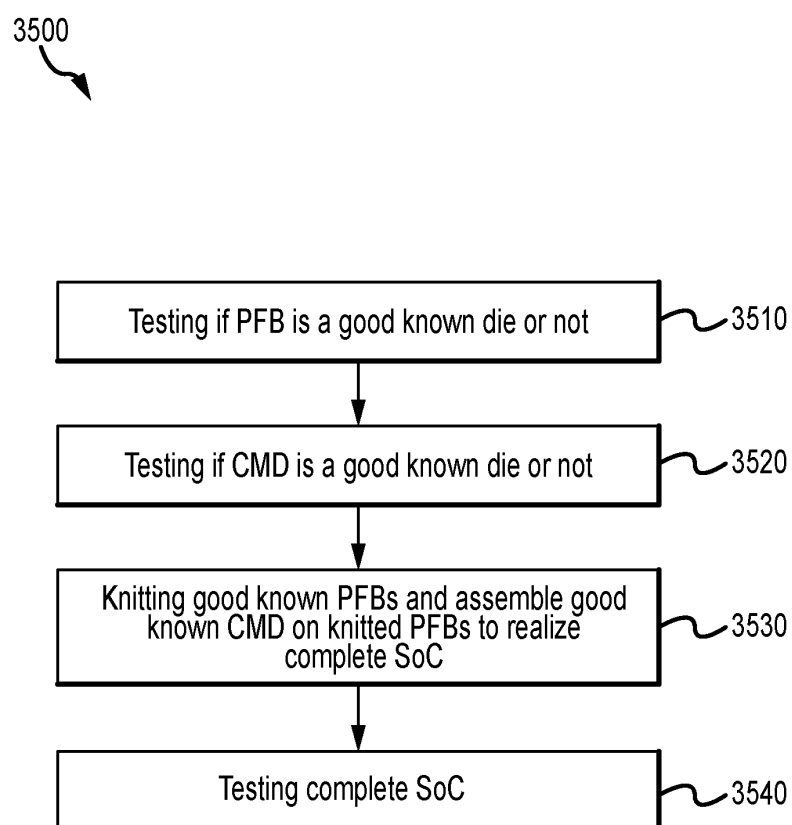


FIG.35

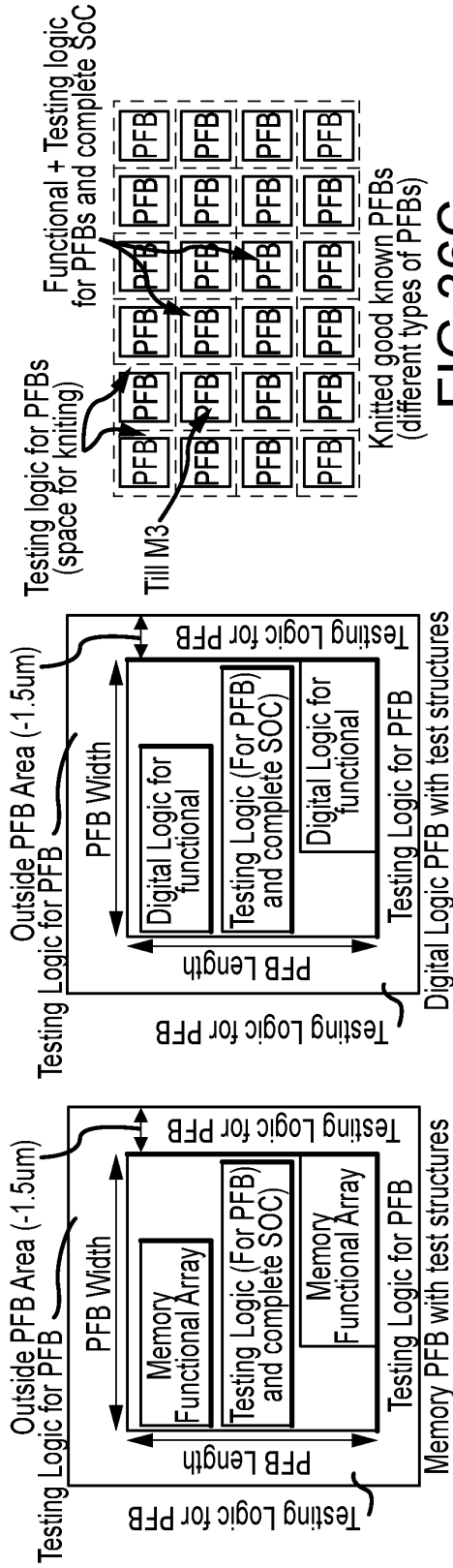


FIG. 36A

FIG. 36B

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FIG. 36C

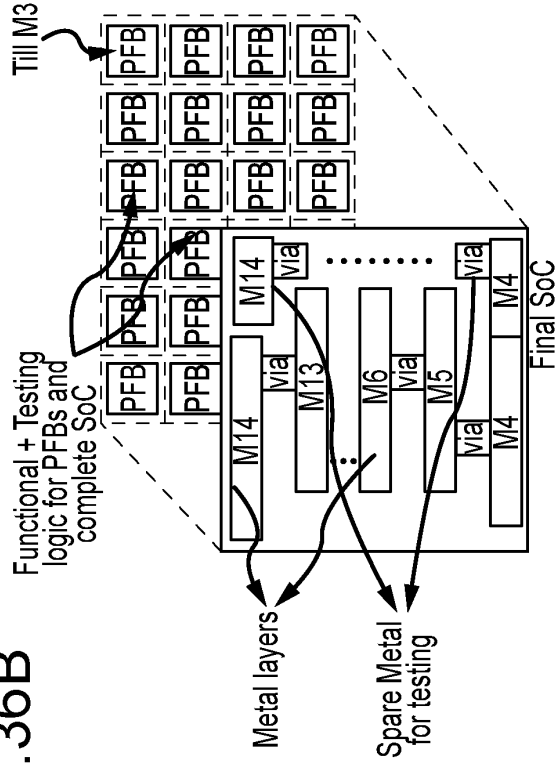
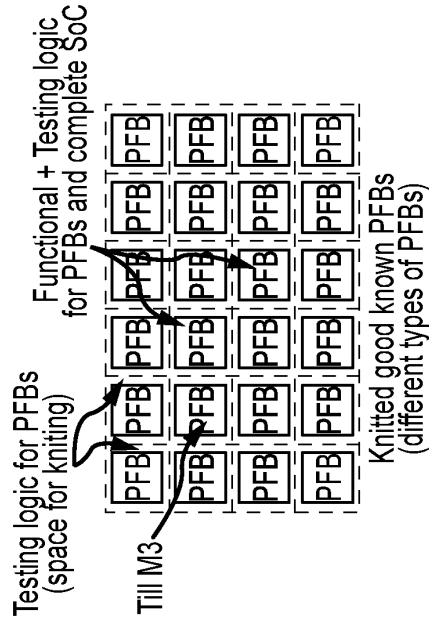
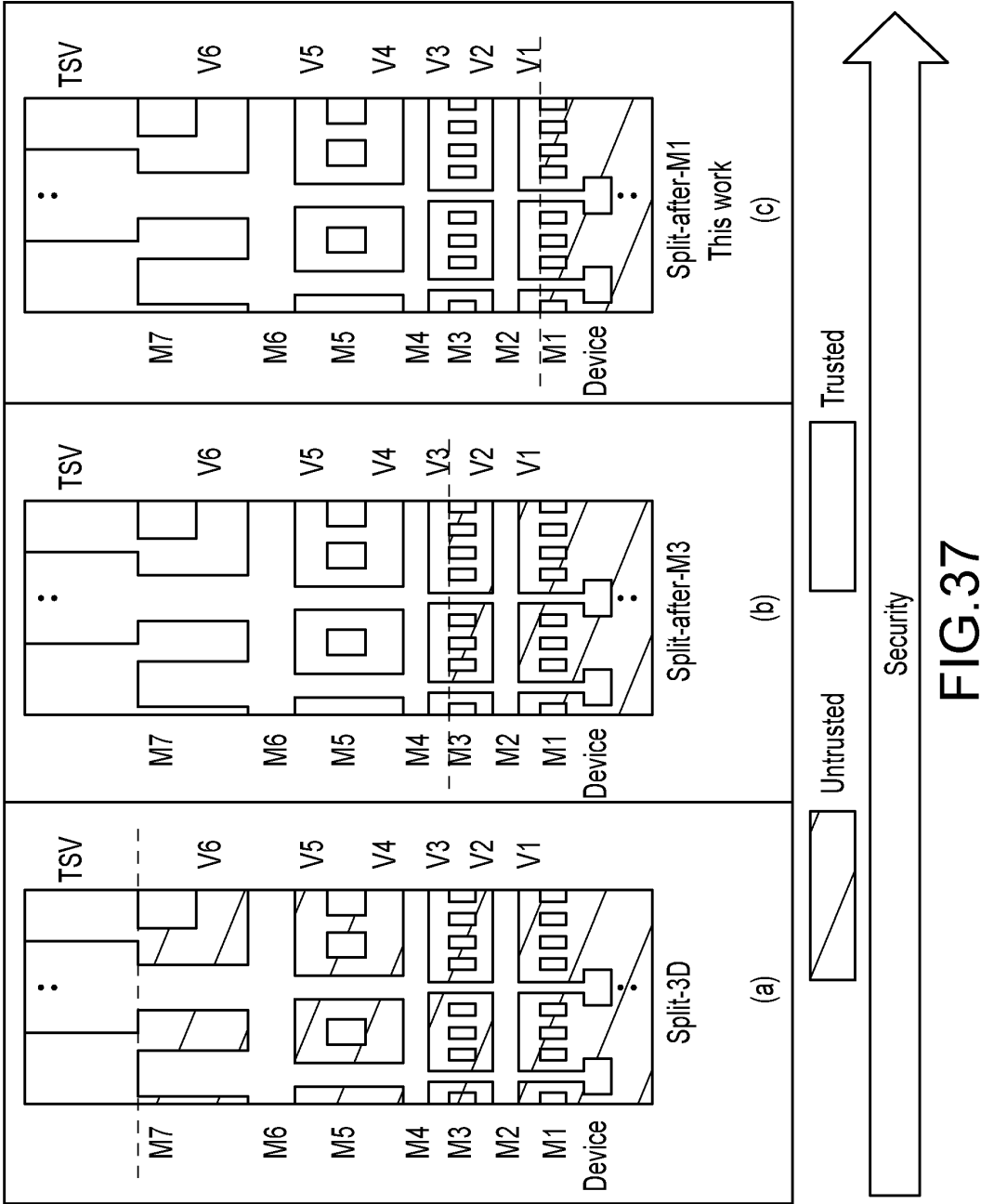


FIG. 36D

FIG. 36E



3700 ↗

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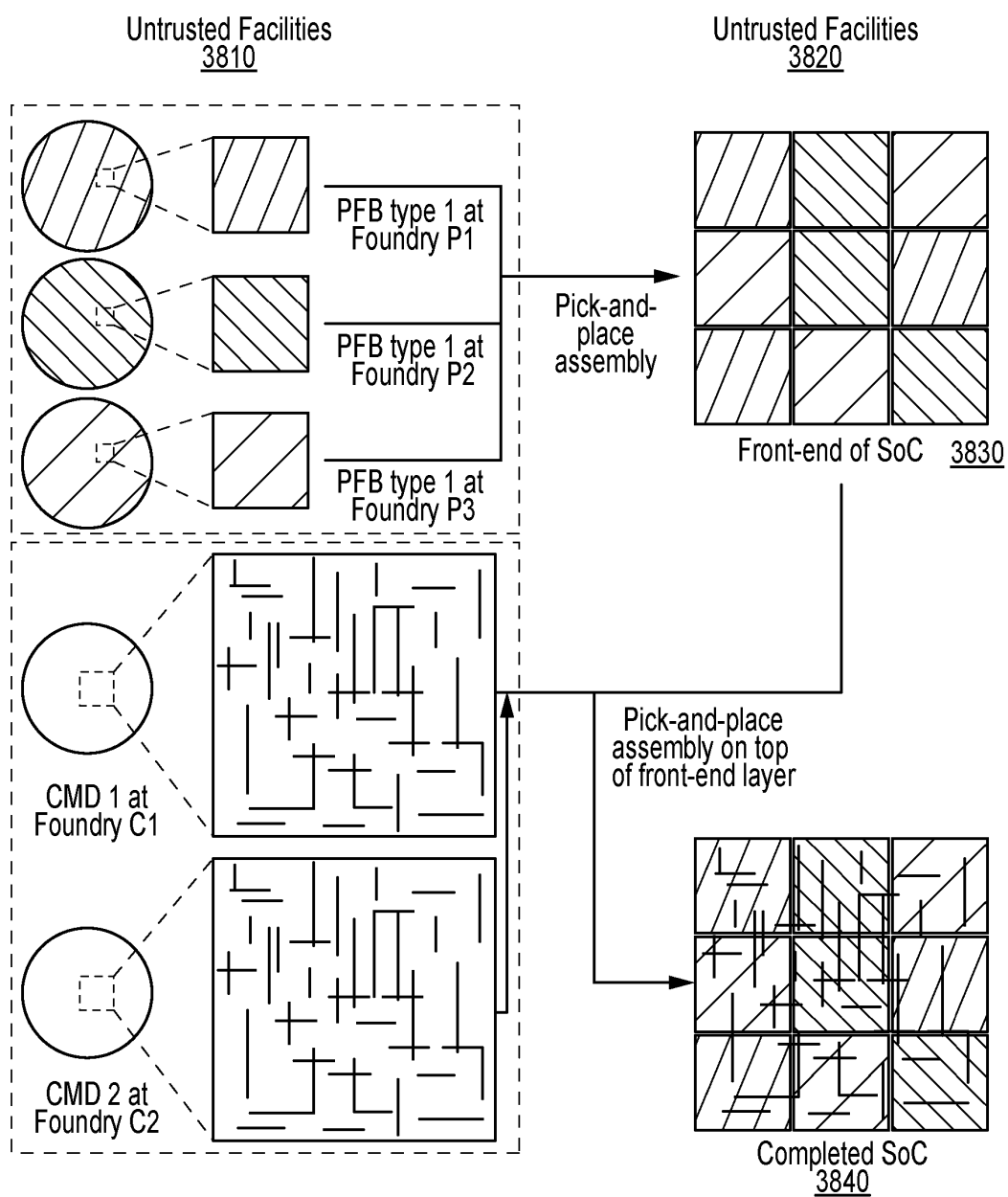


FIG.38

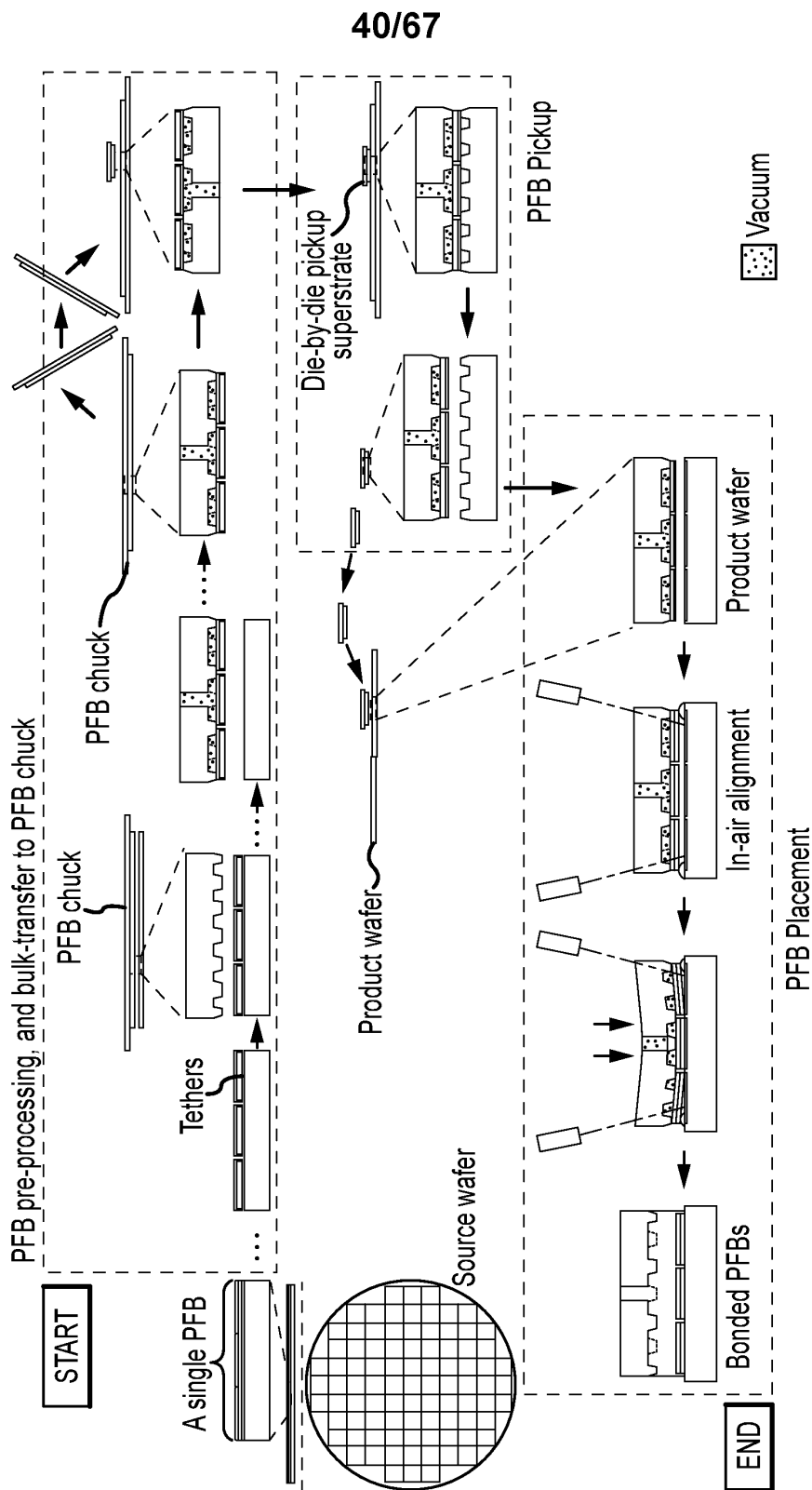
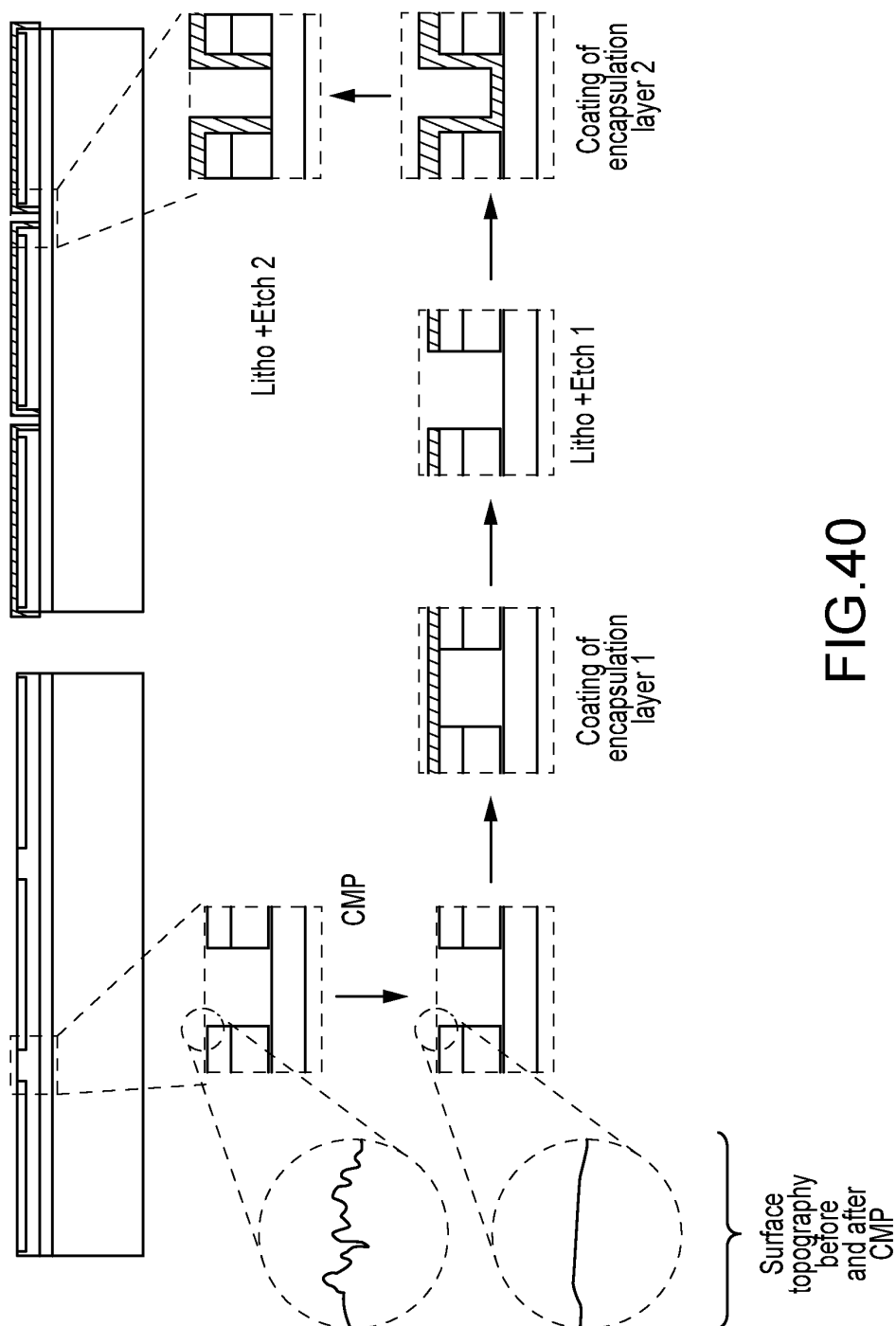


FIG.39

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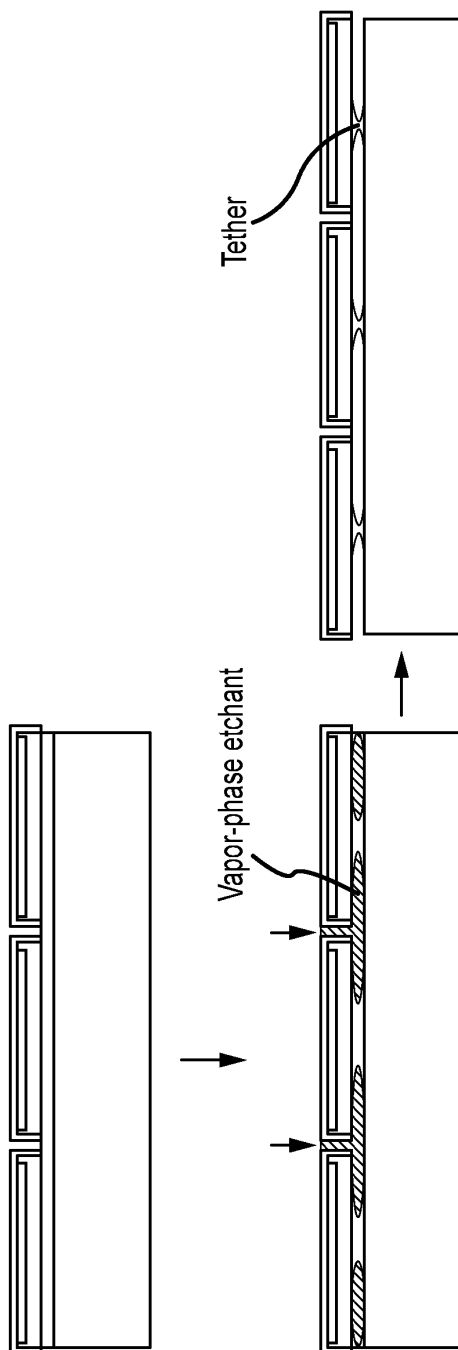


FIG. 41

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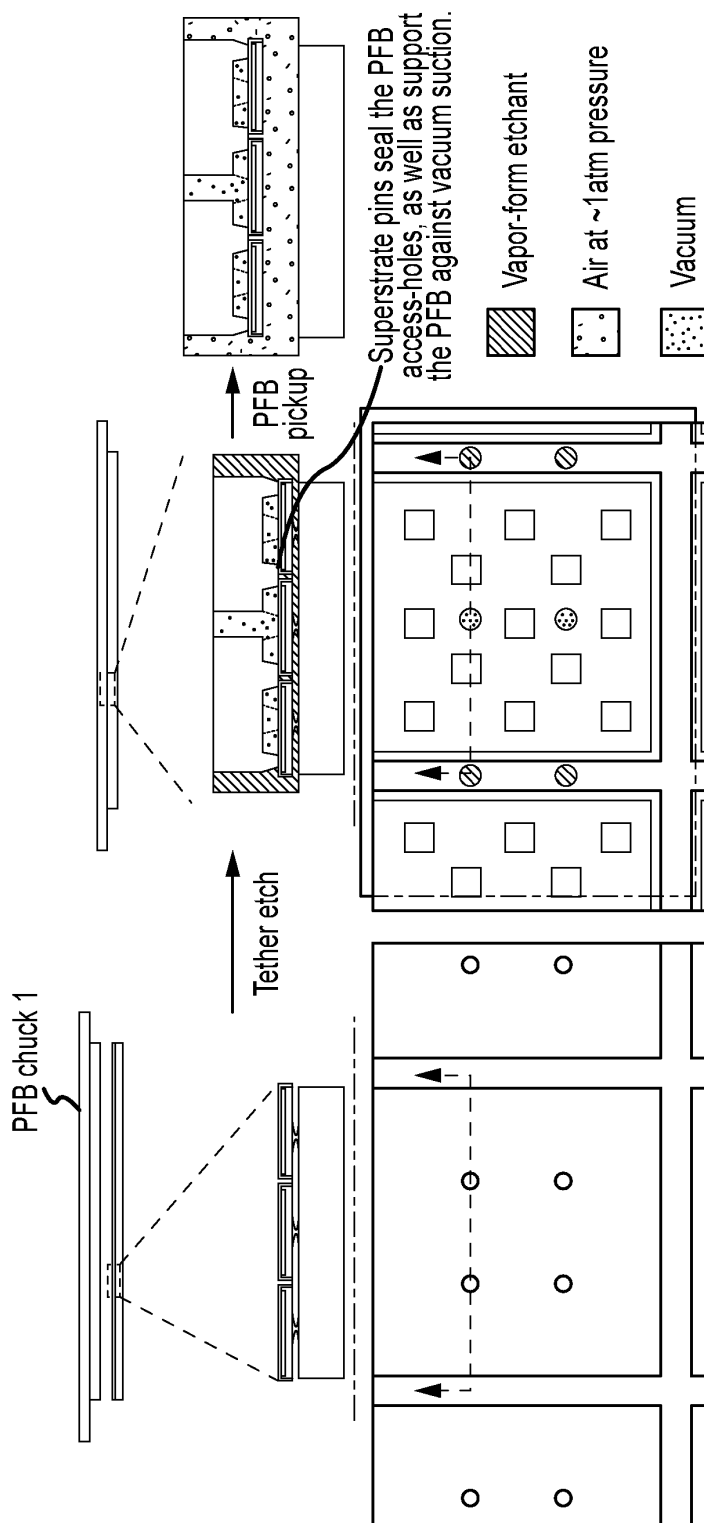


FIG. 42

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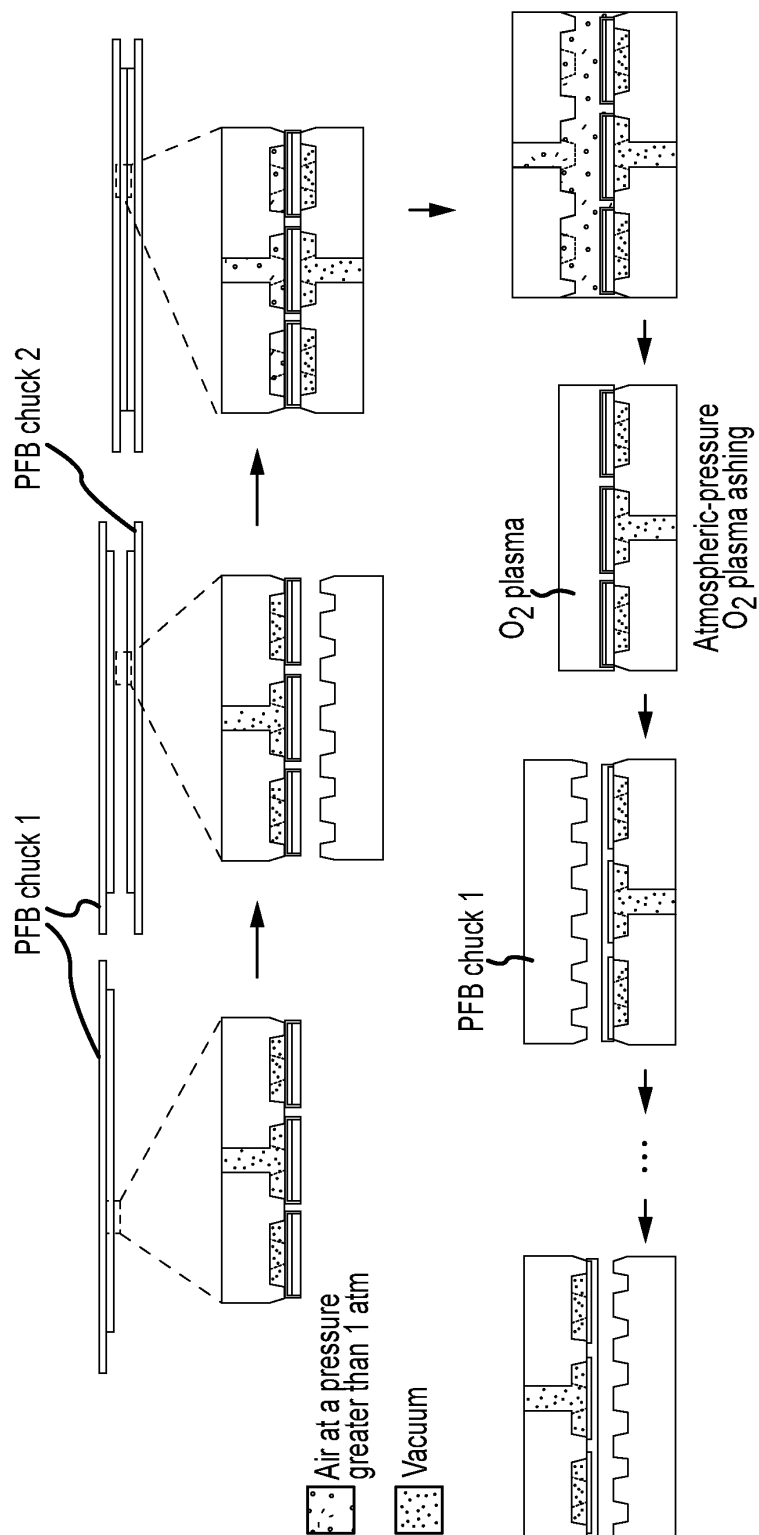


FIG. 43

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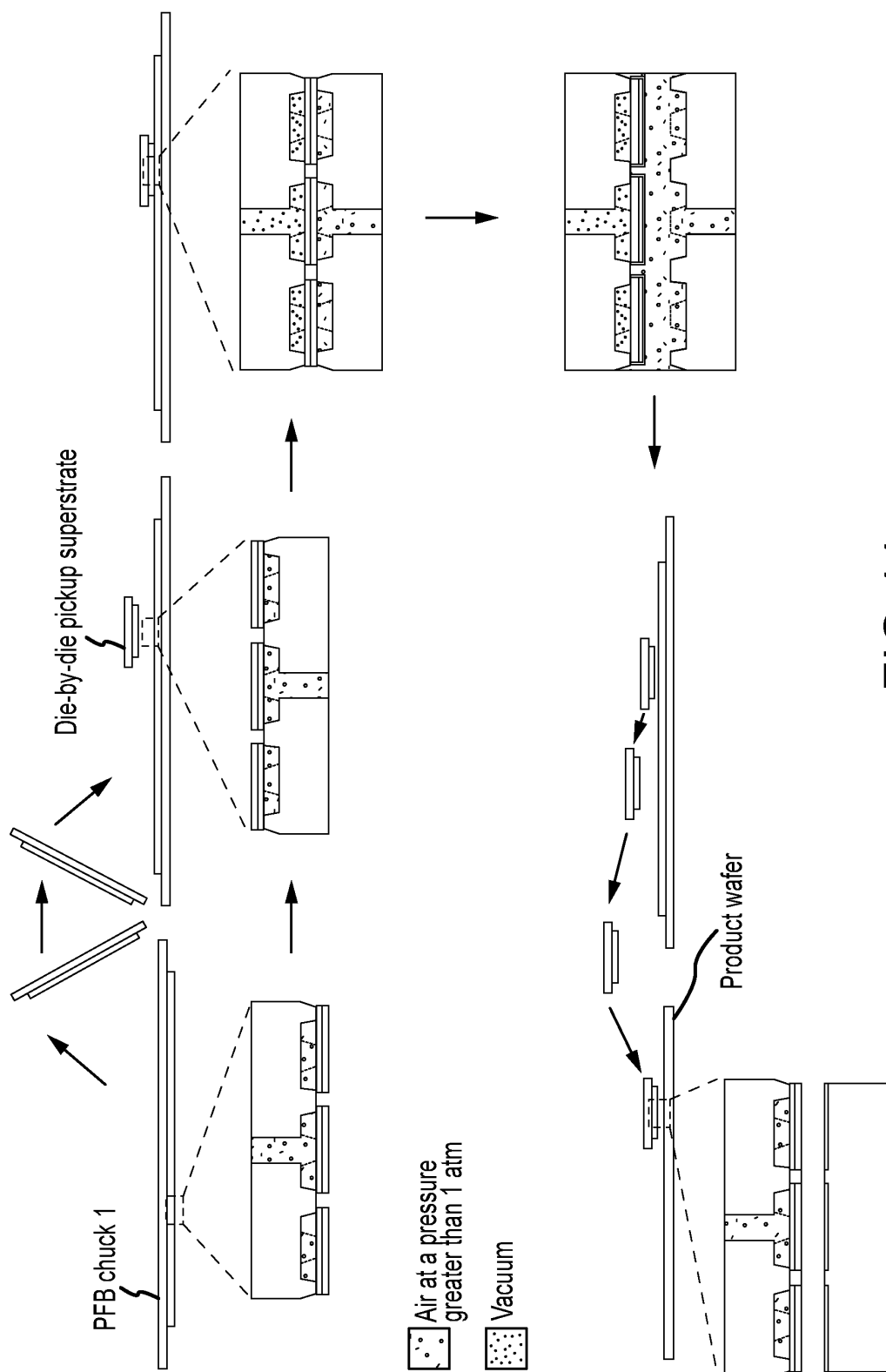


FIG.44

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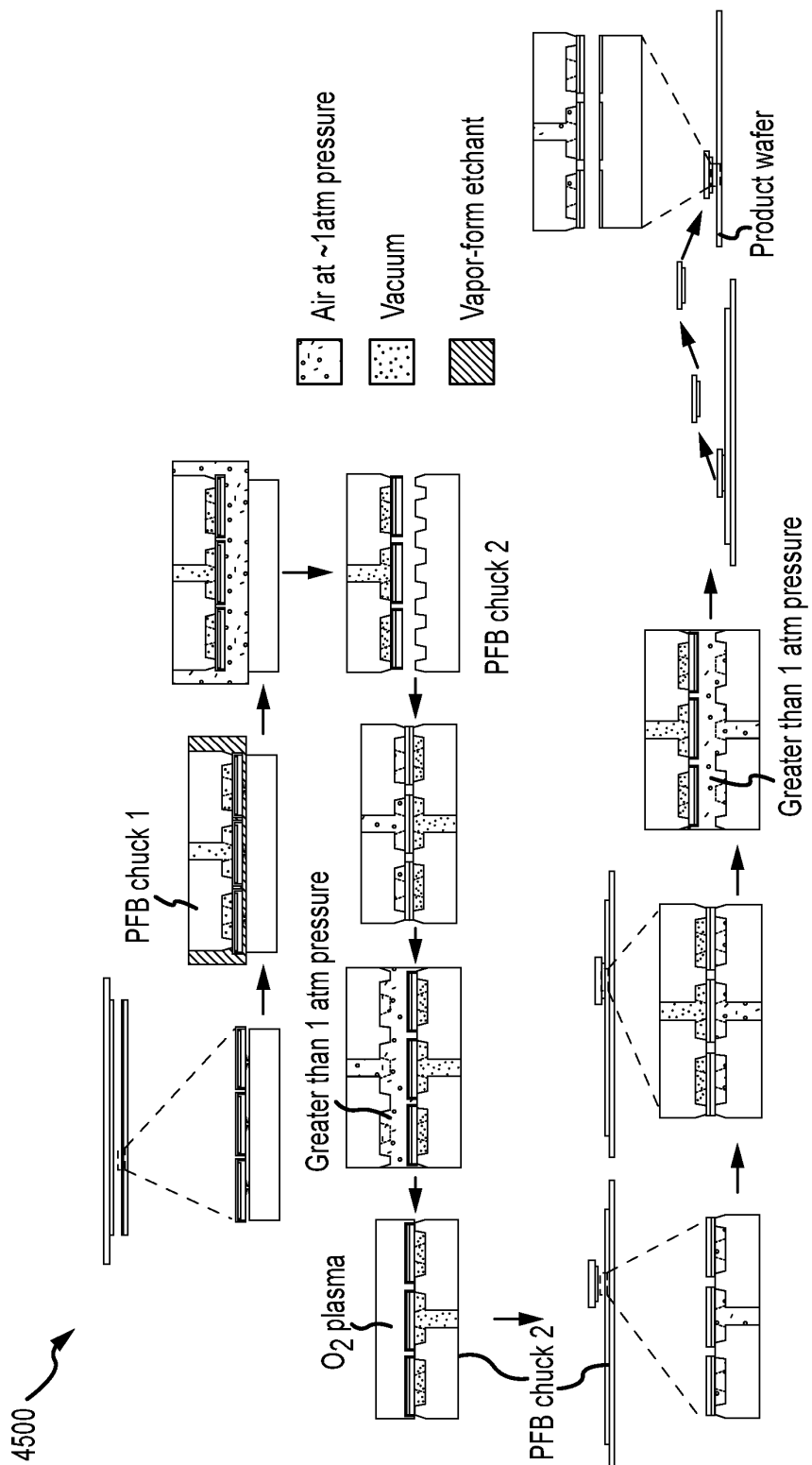
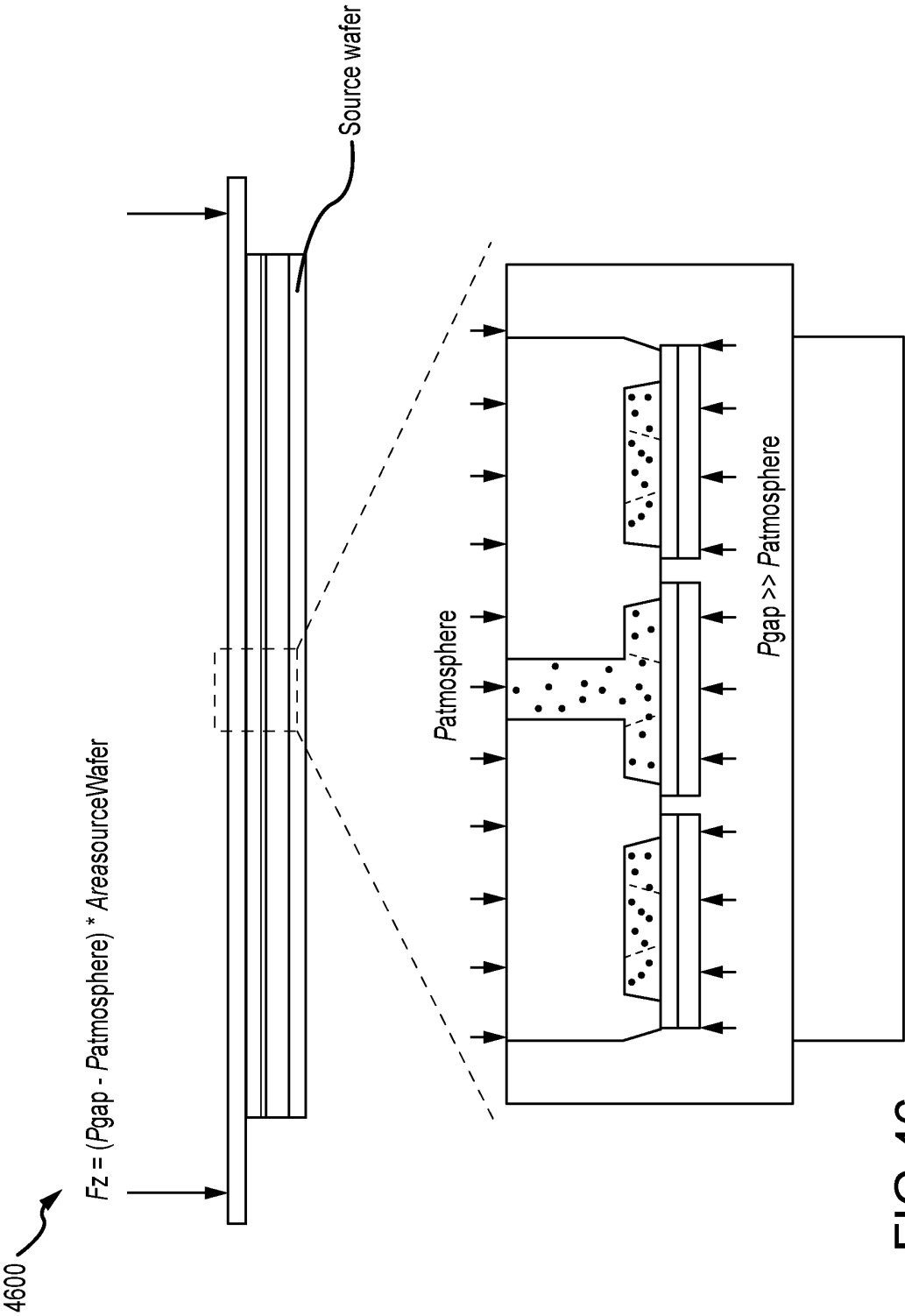


FIG.45



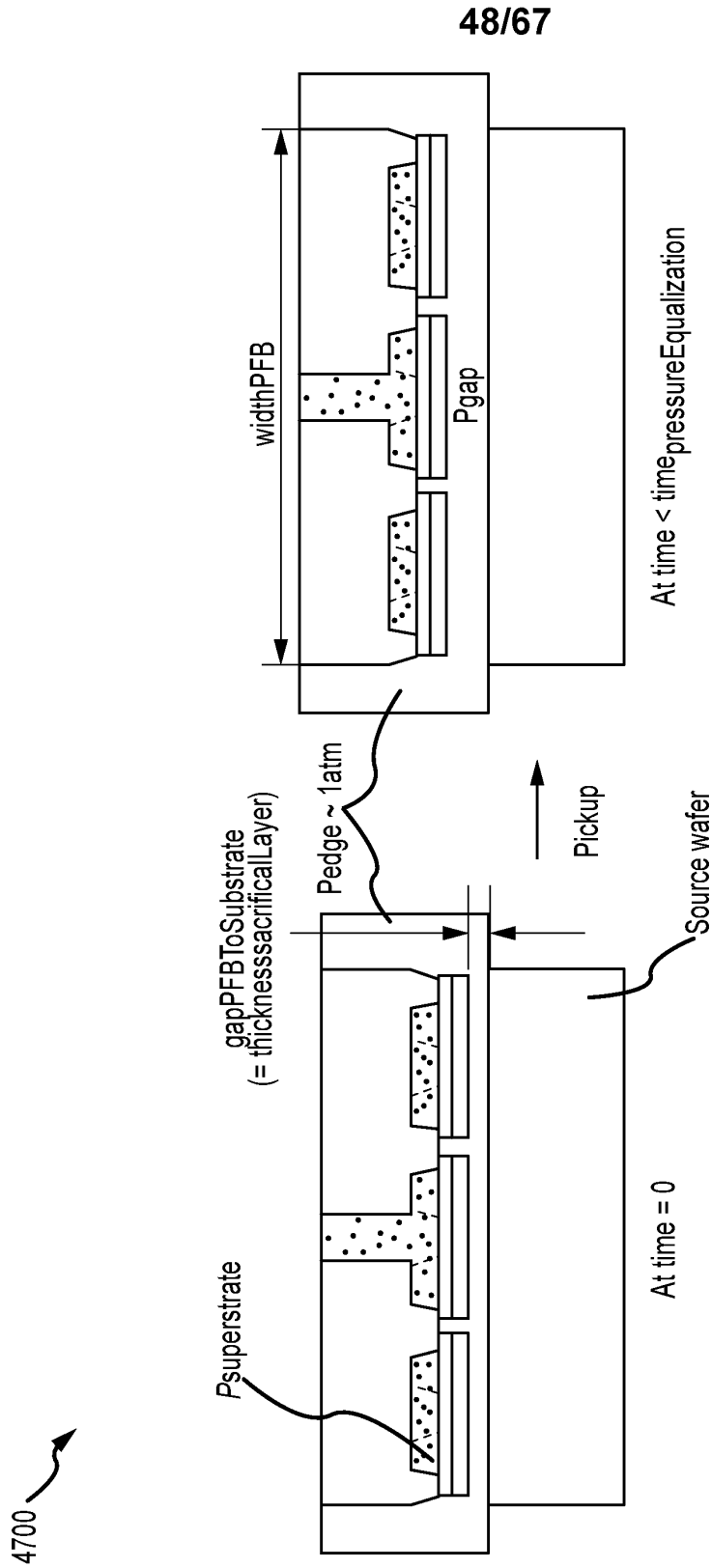


FIG.47

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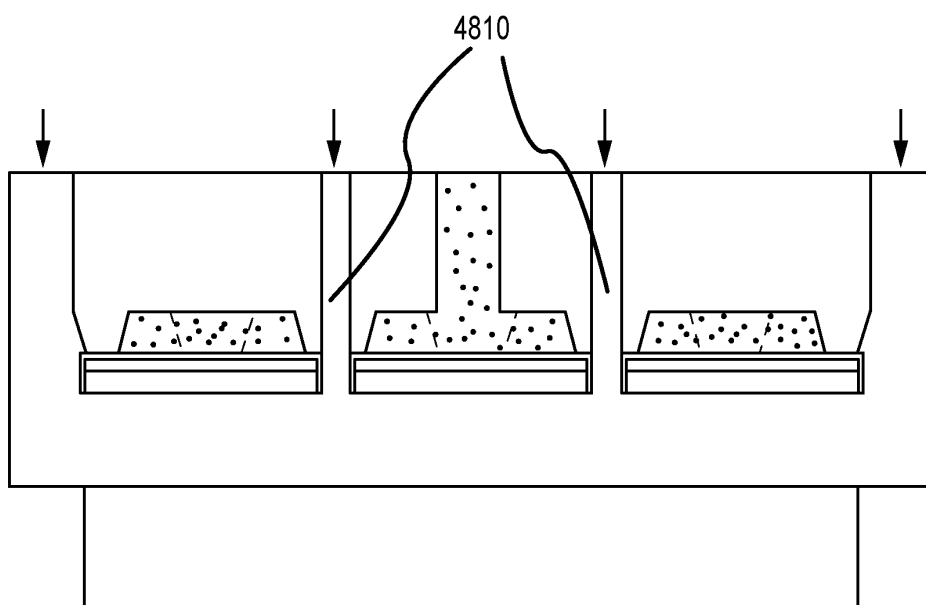


FIG.48

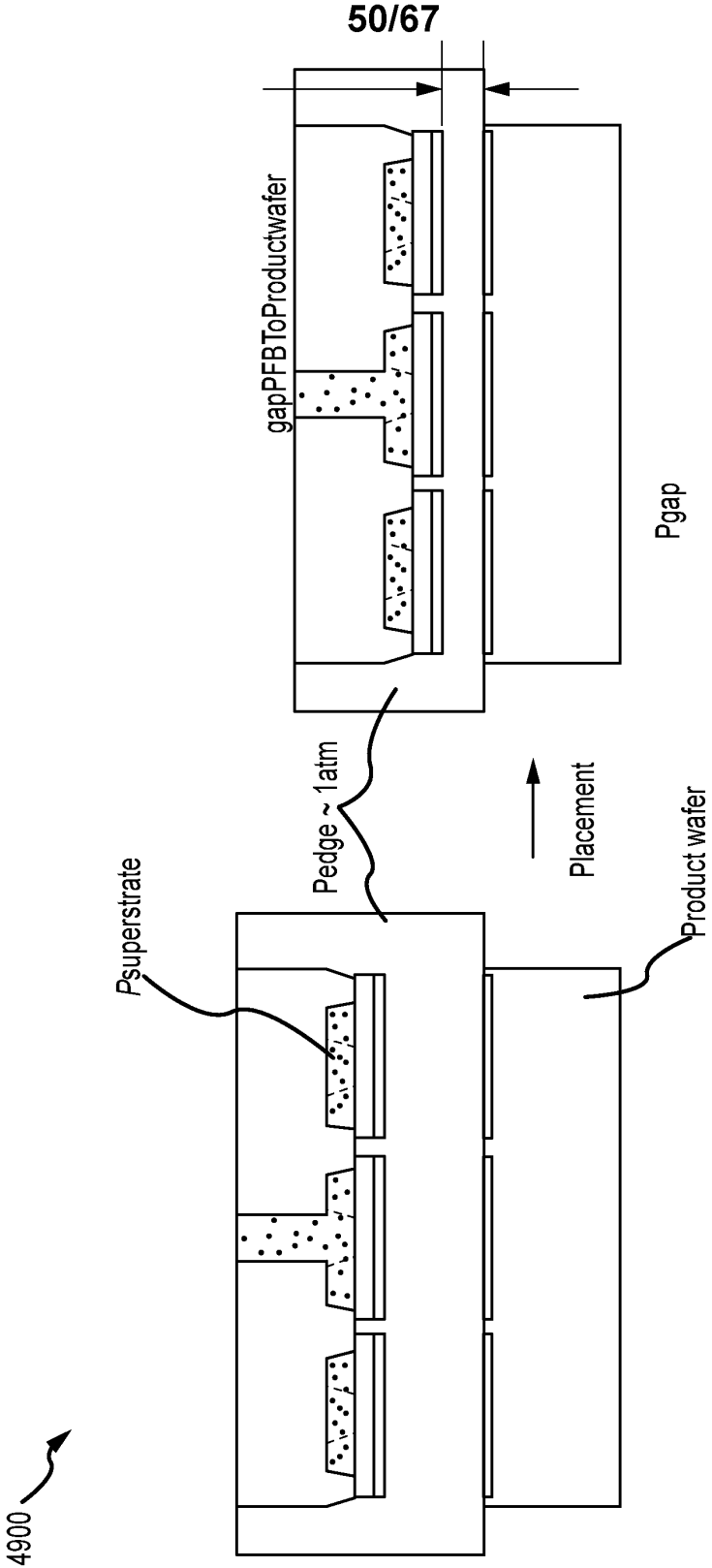


FIG.49

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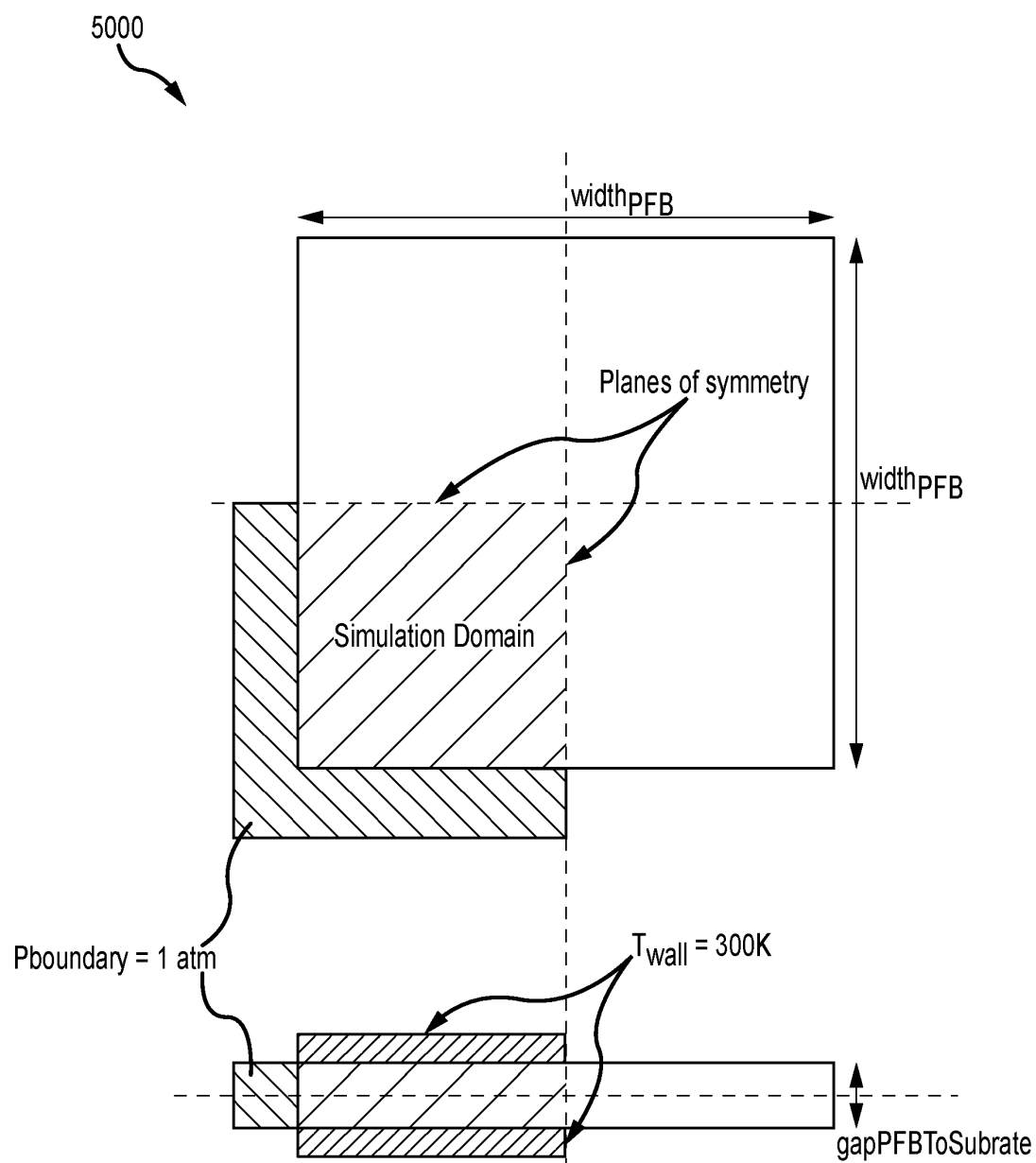


FIG.50

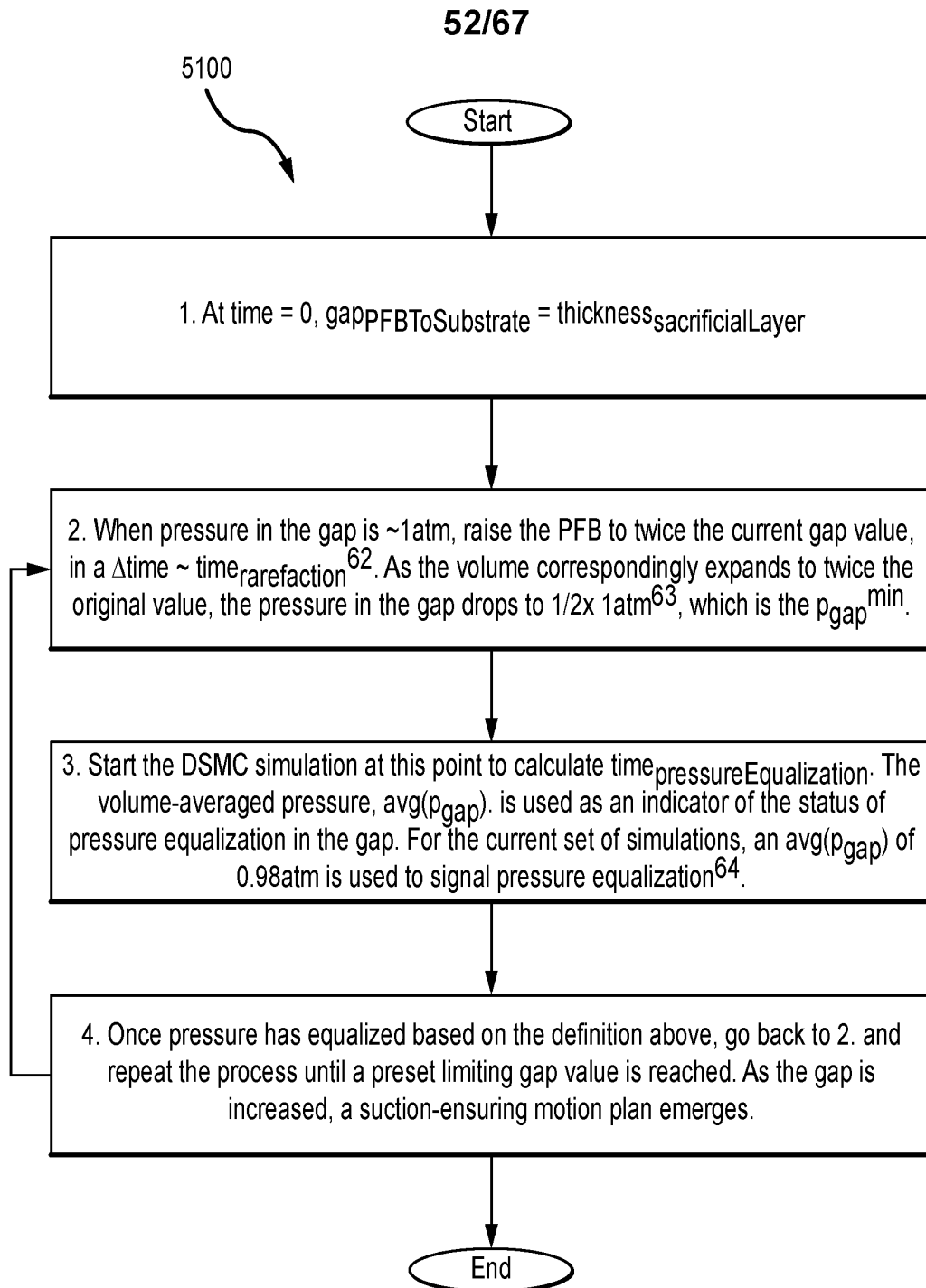
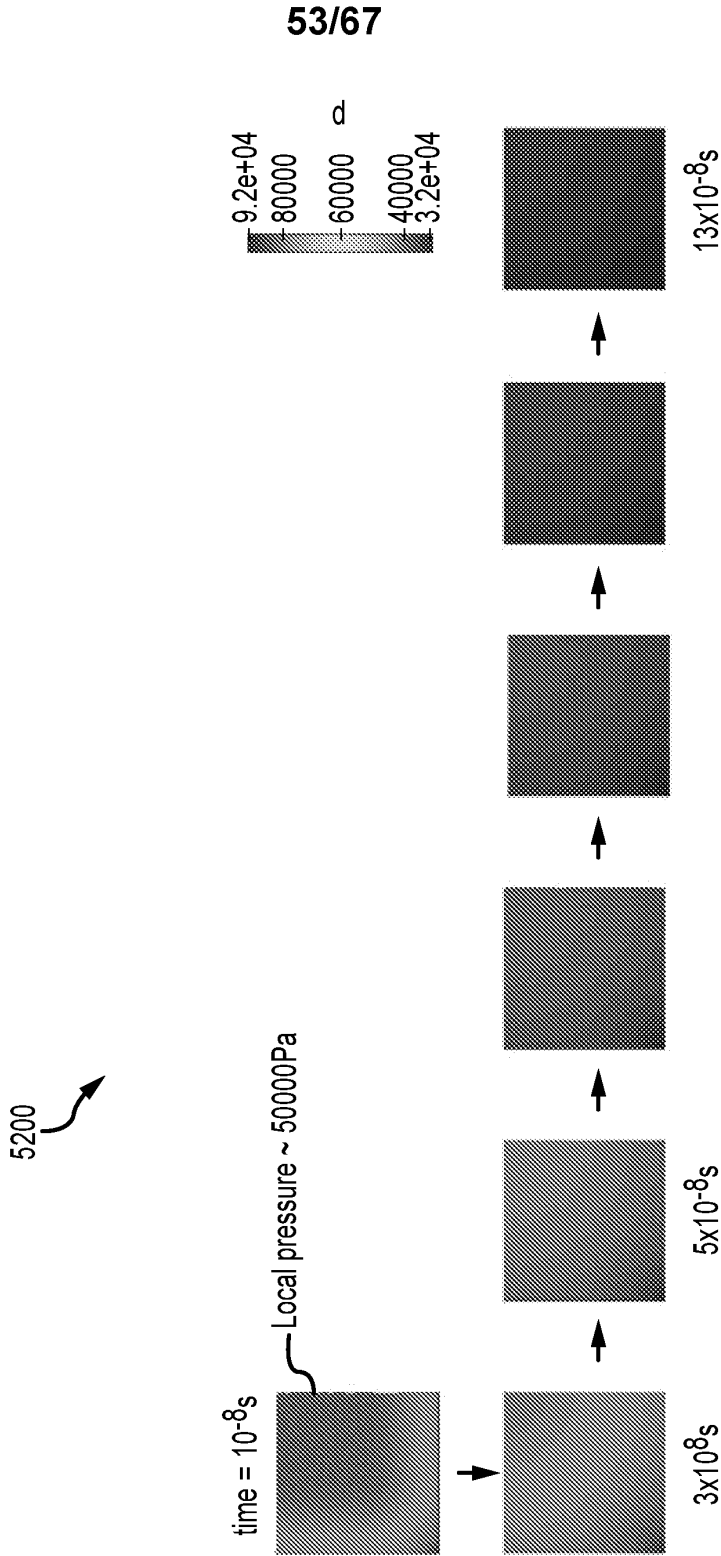


FIG.51



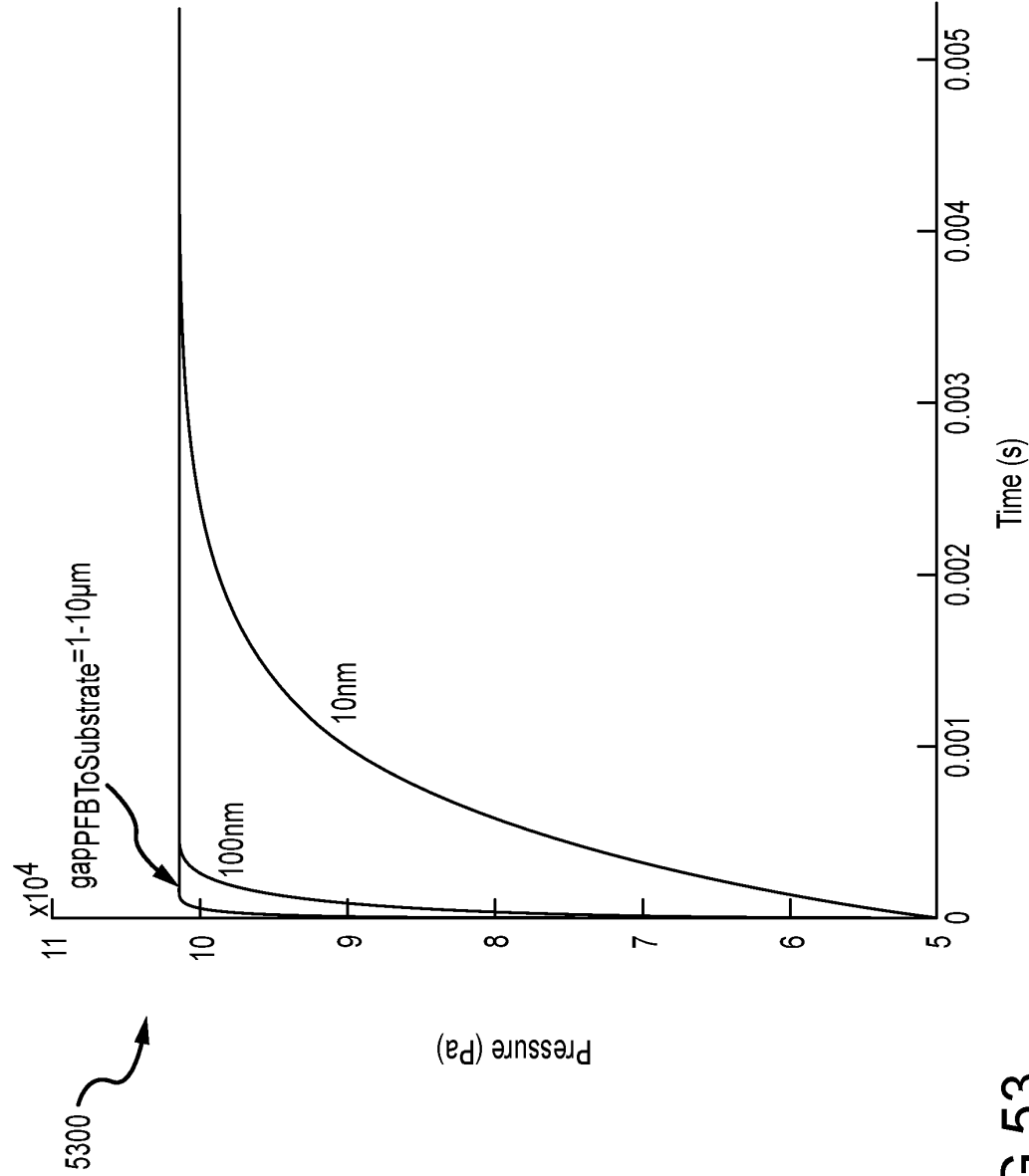


FIG.53

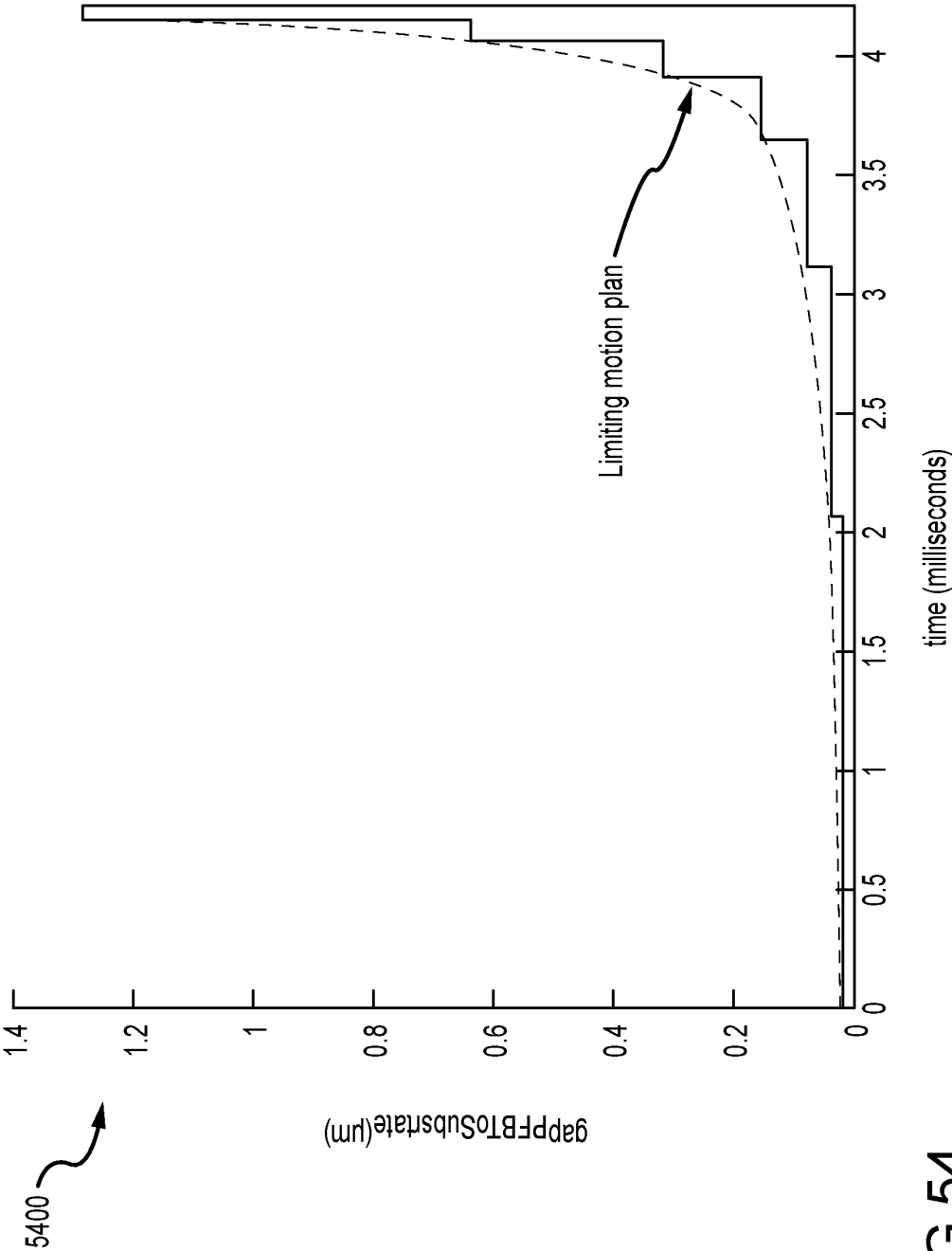
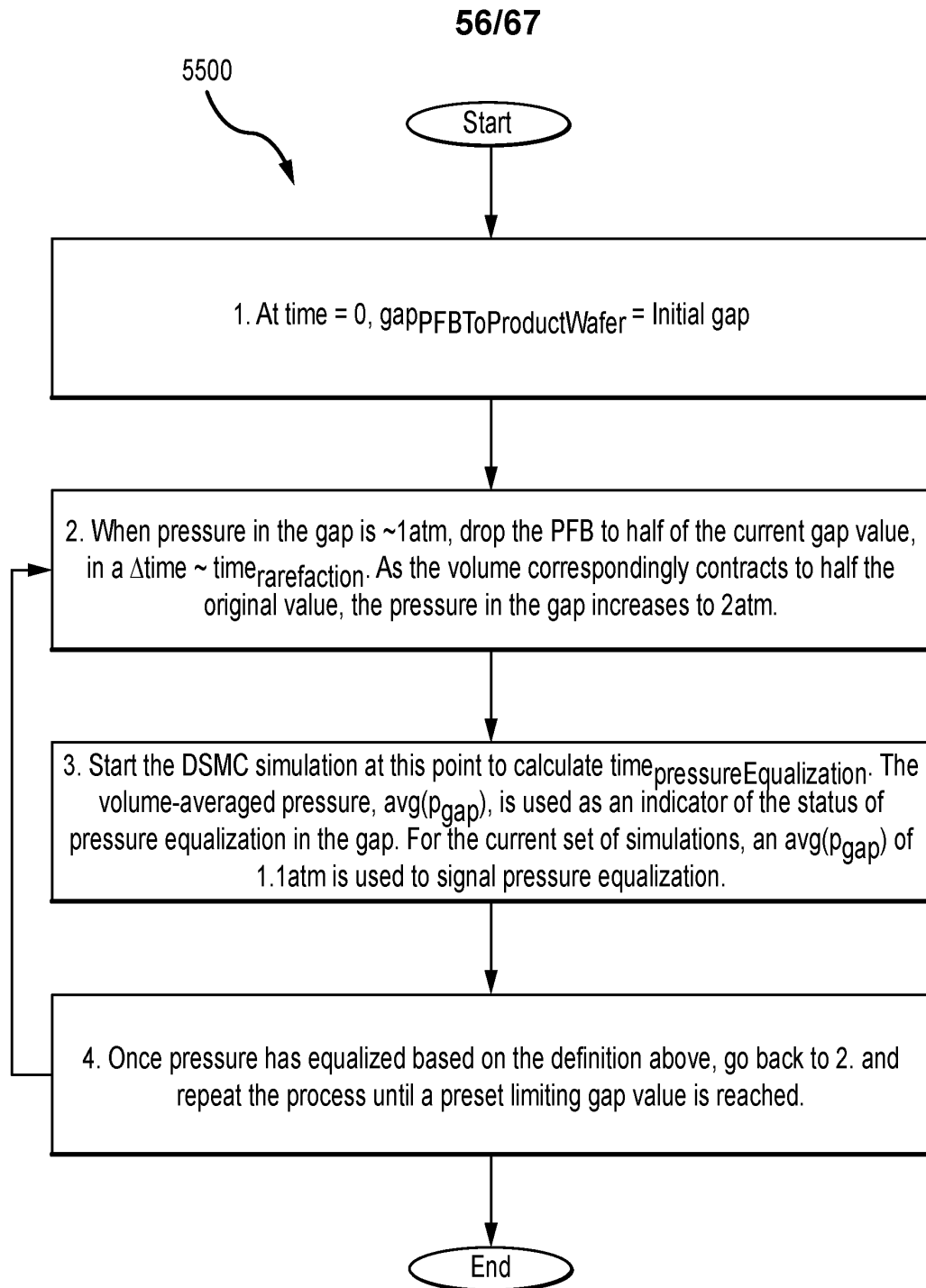


FIG.54

**FIG.55**

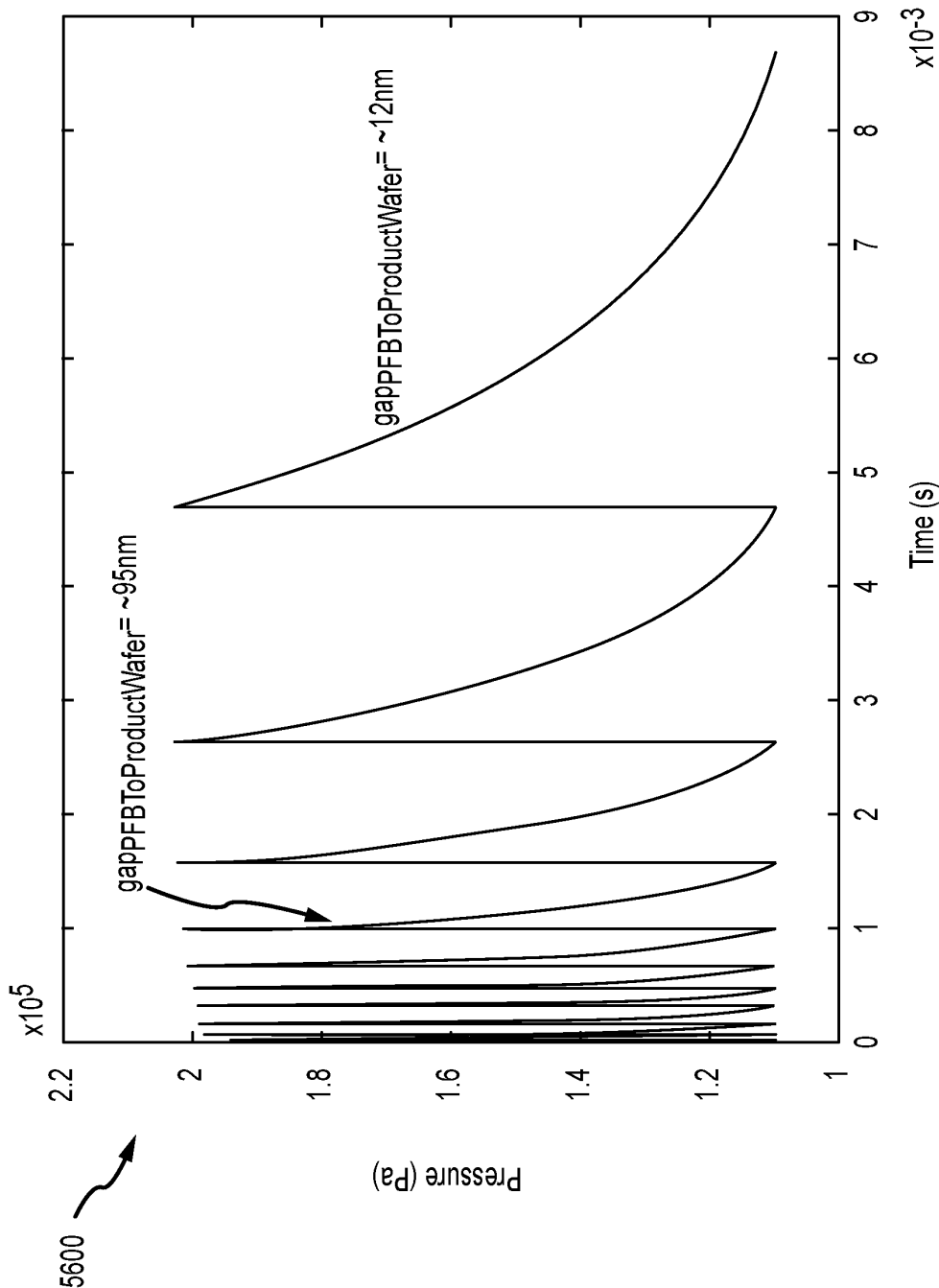


FIG.56

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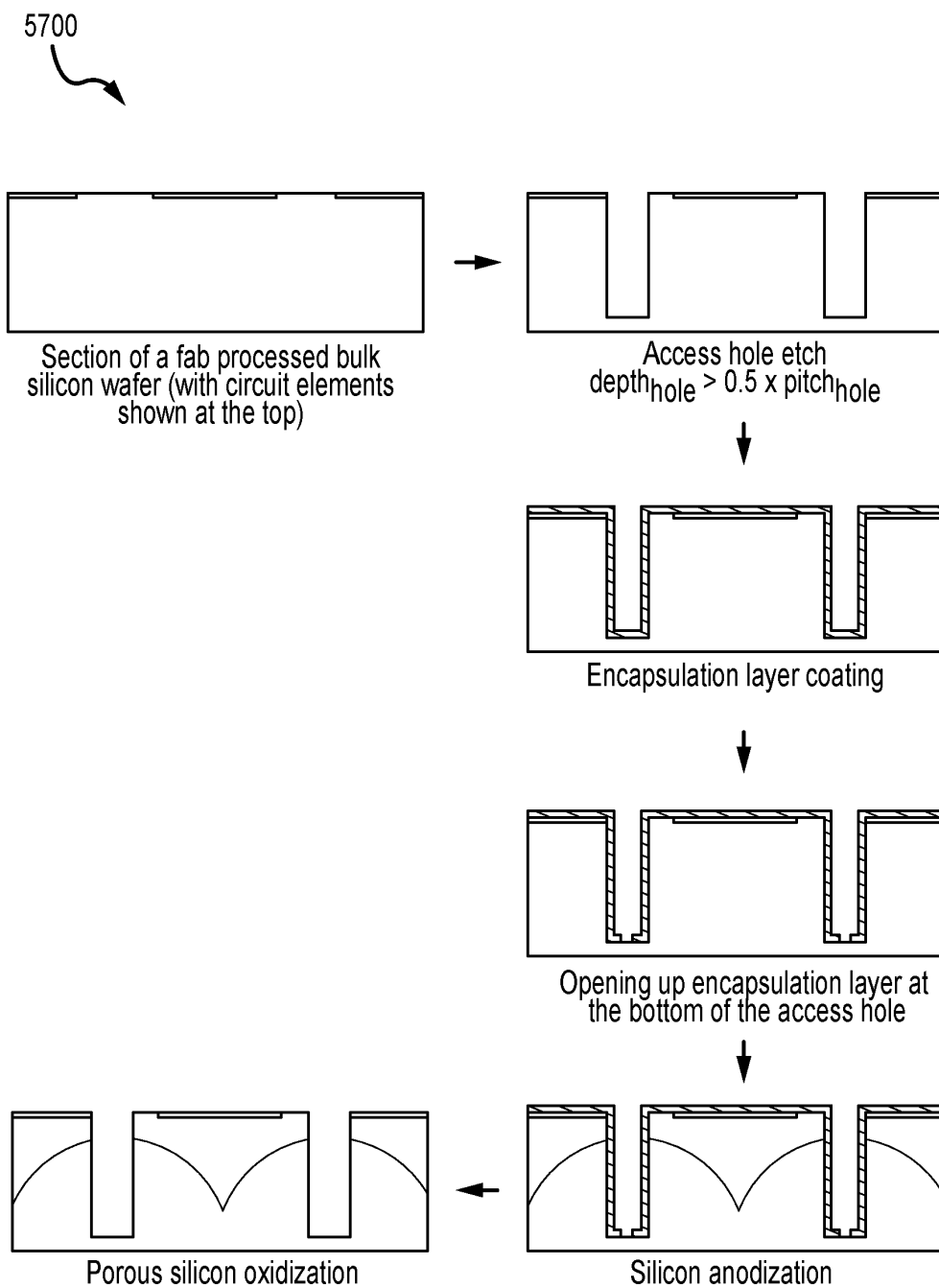
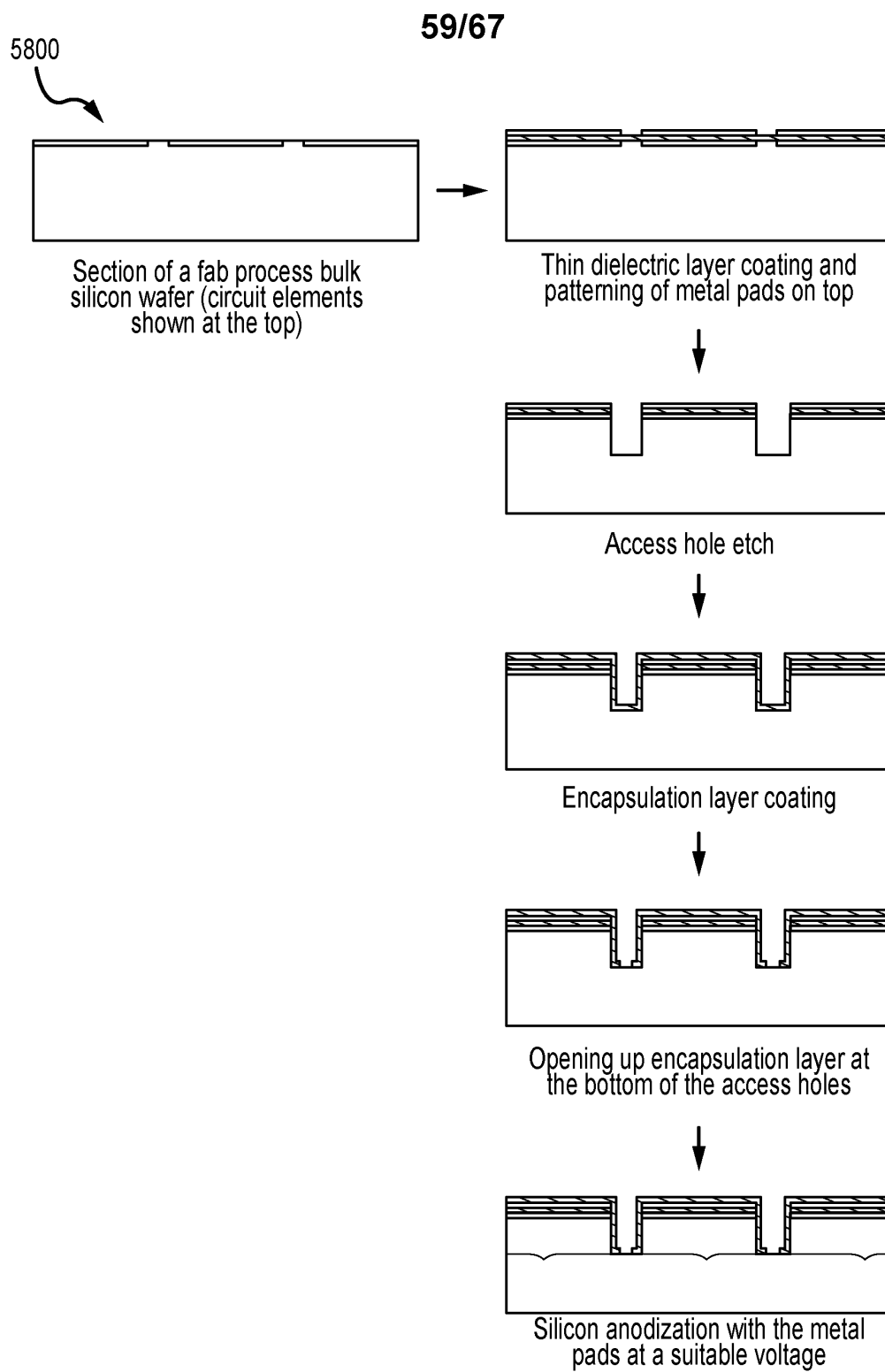
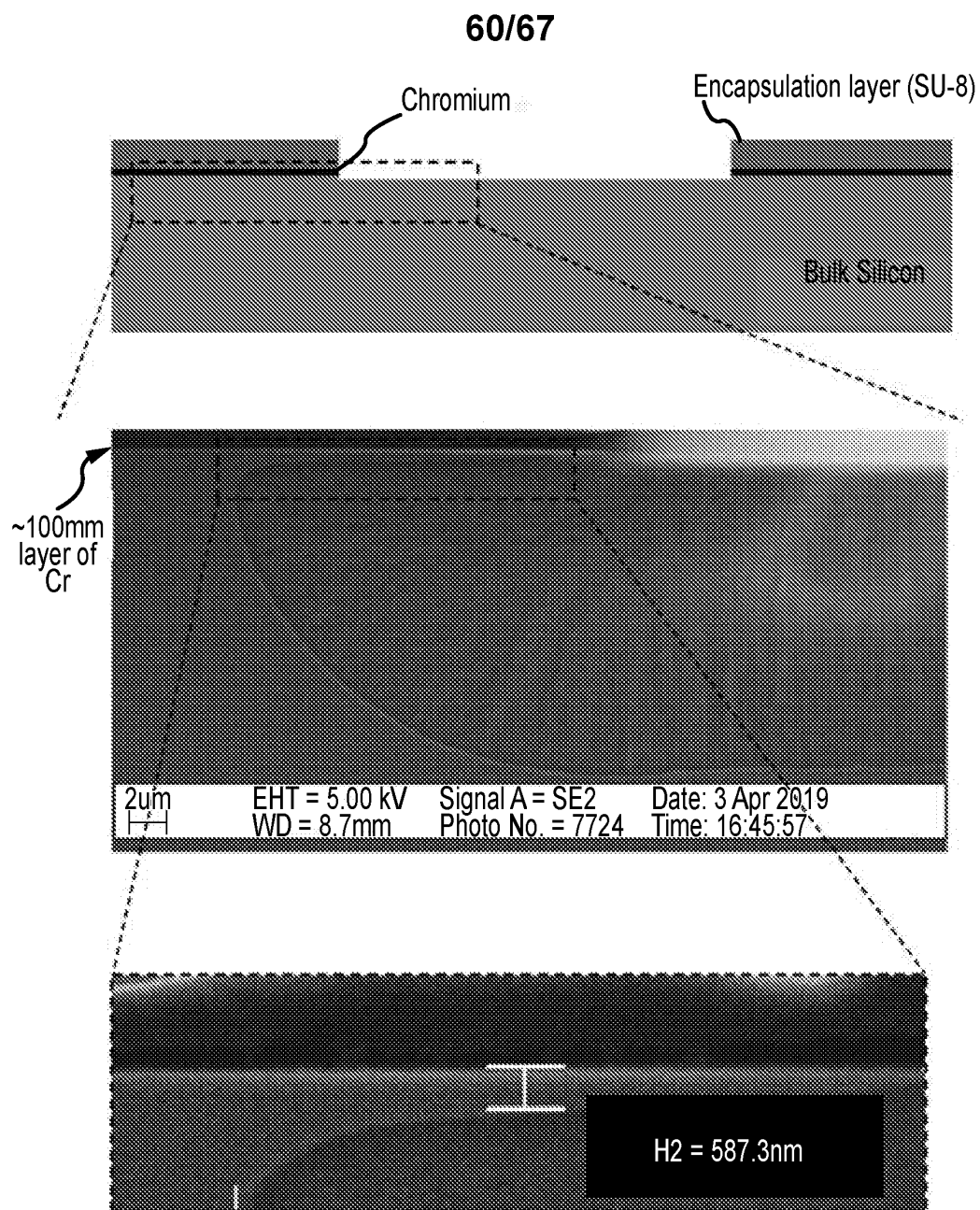


FIG.57

**FIG.58**

**FIG.59**

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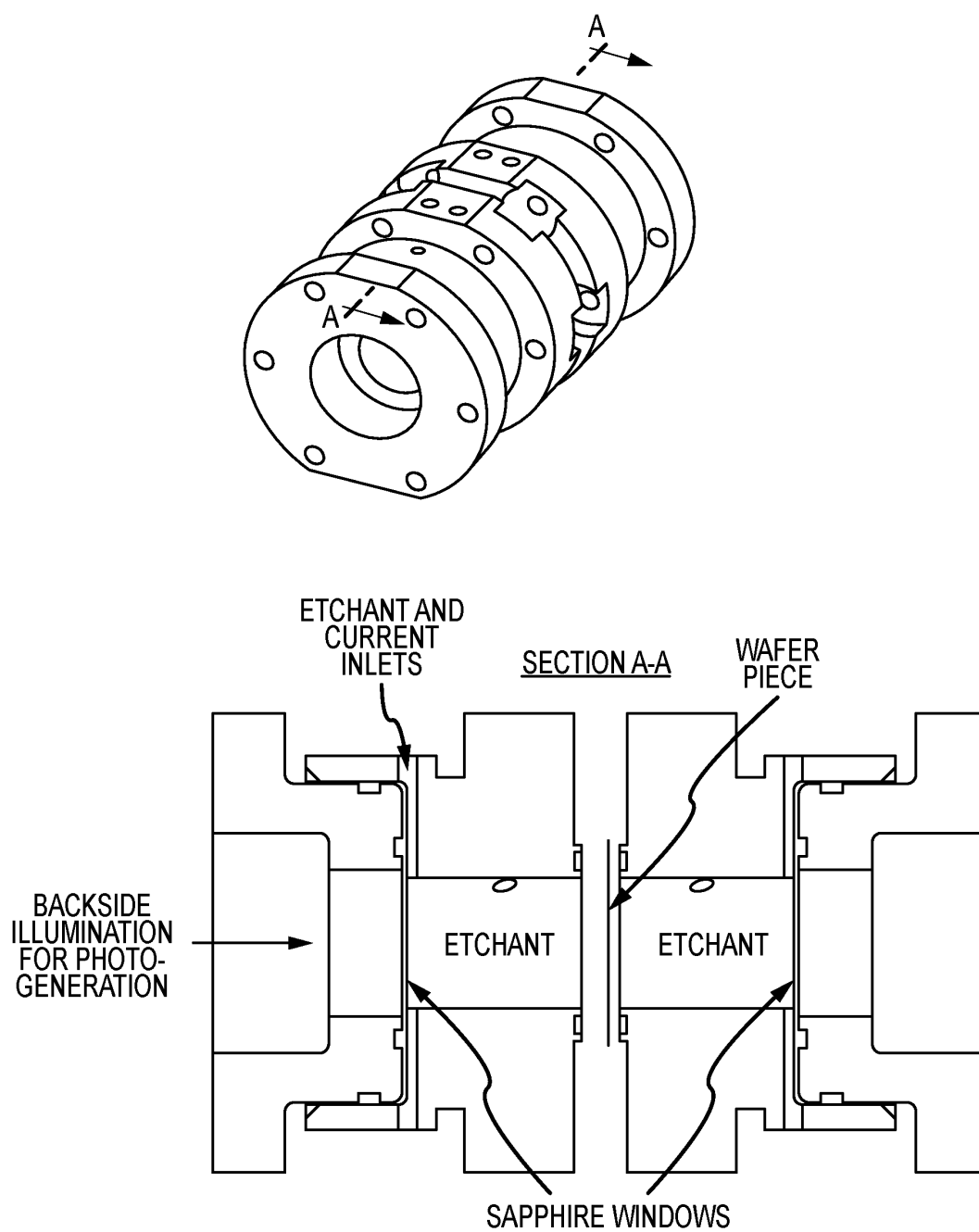


FIG. 60

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6100



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

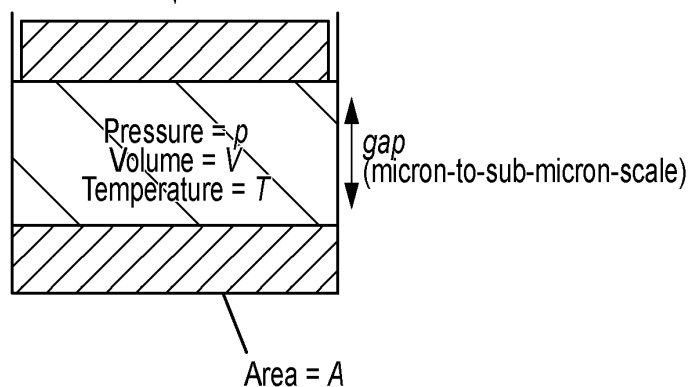


FIG.61

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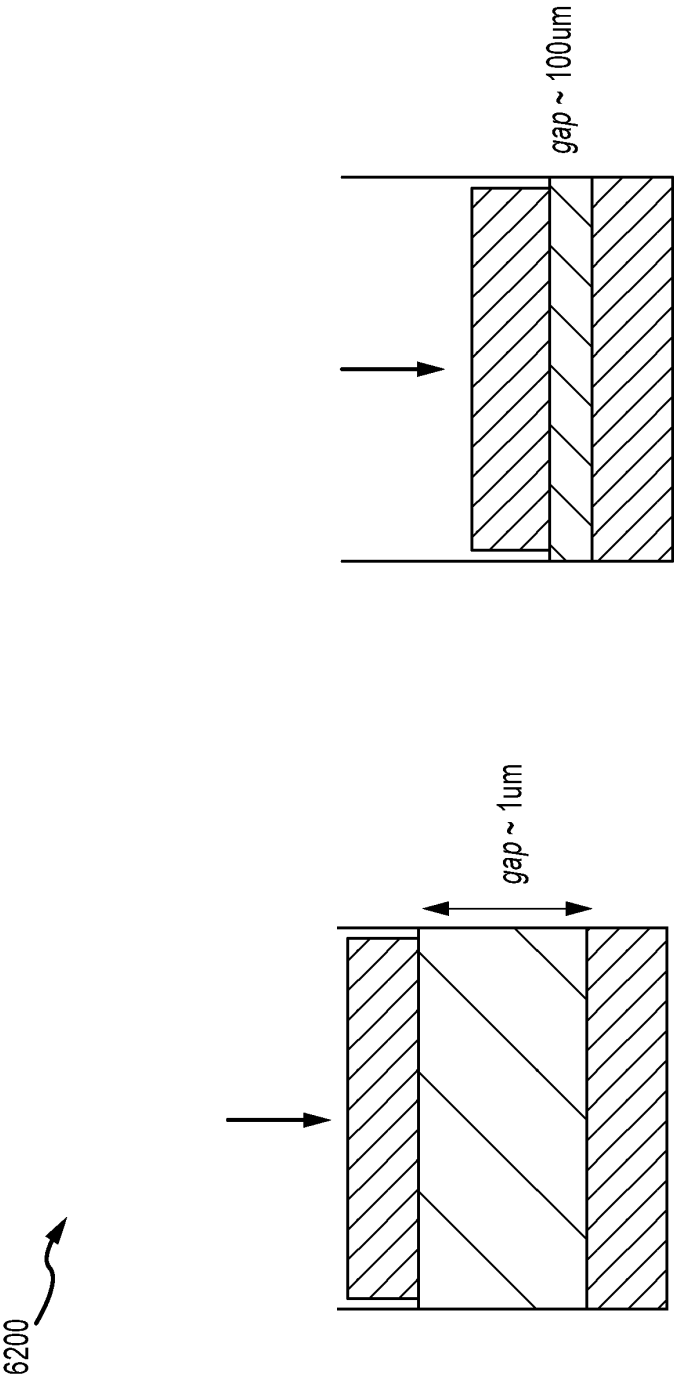
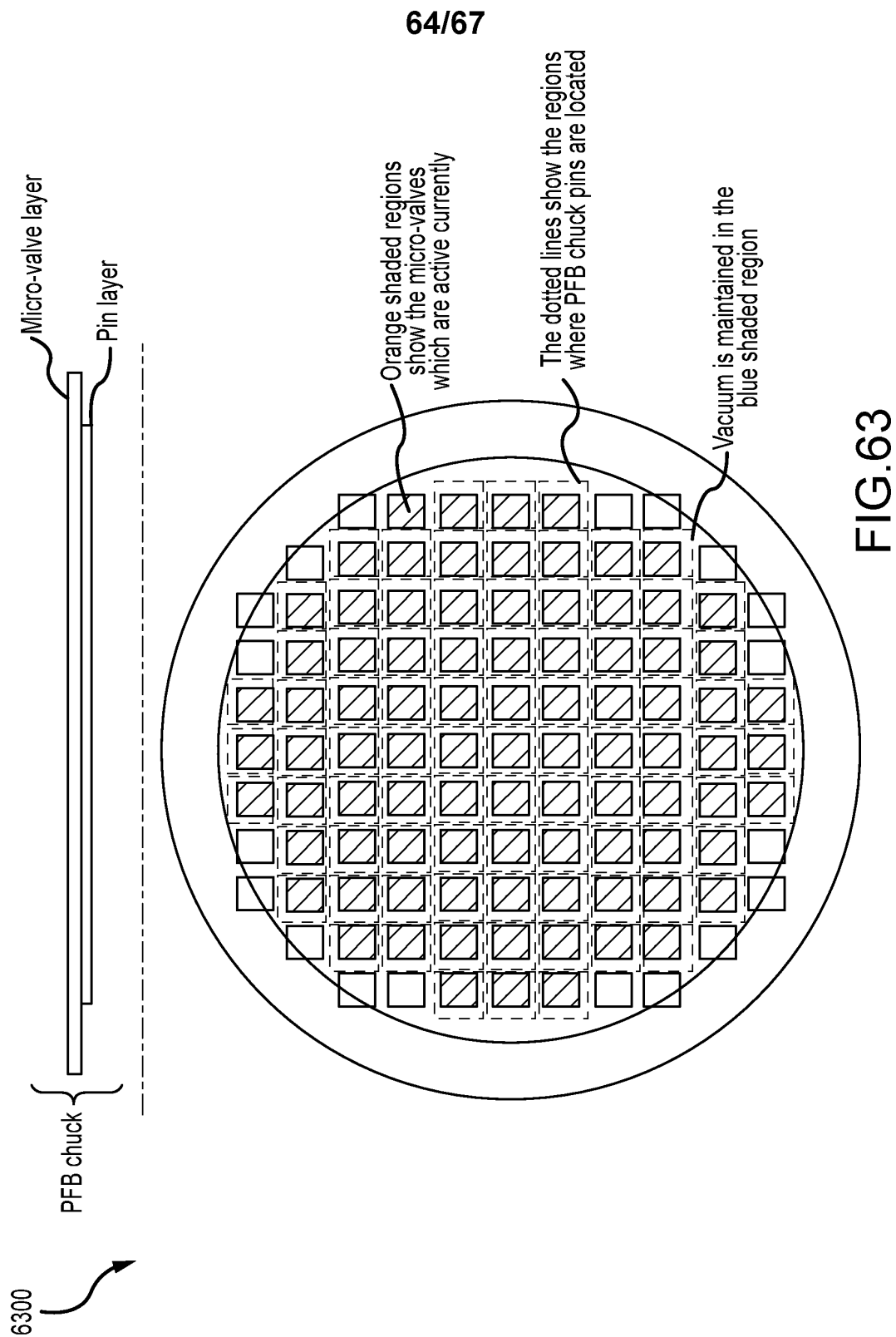


FIG.62



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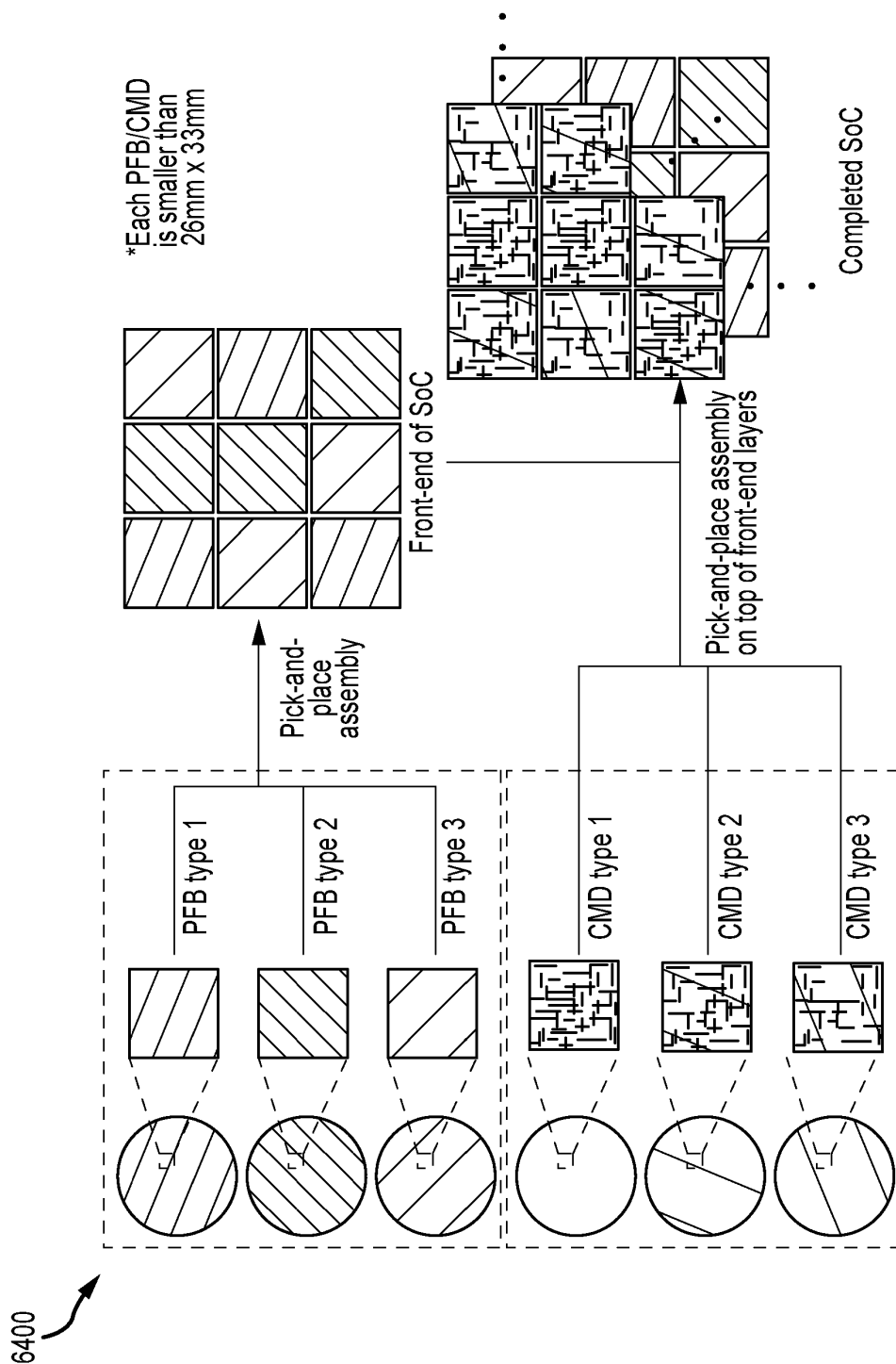


FIG.64

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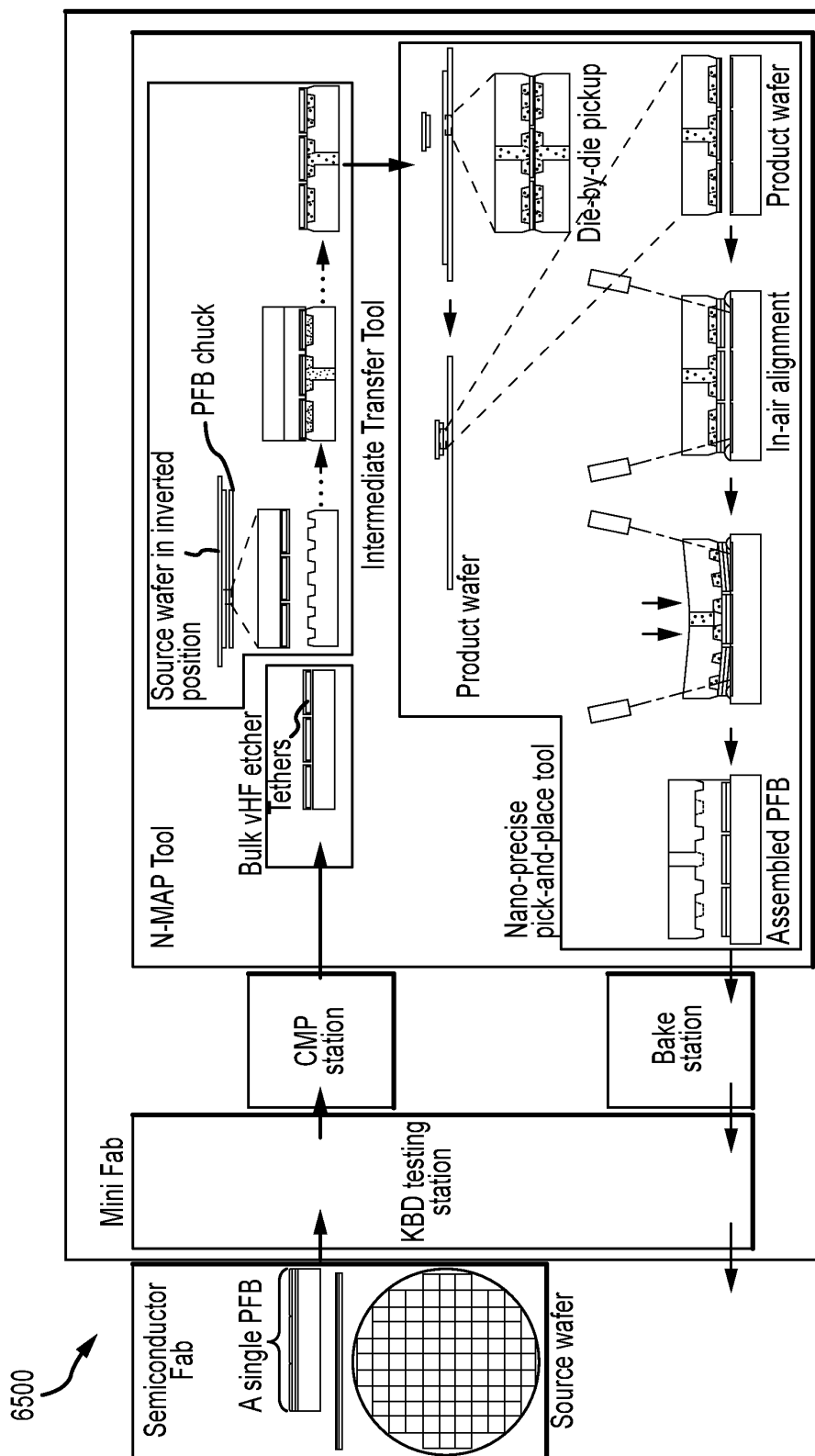


FIG. 65

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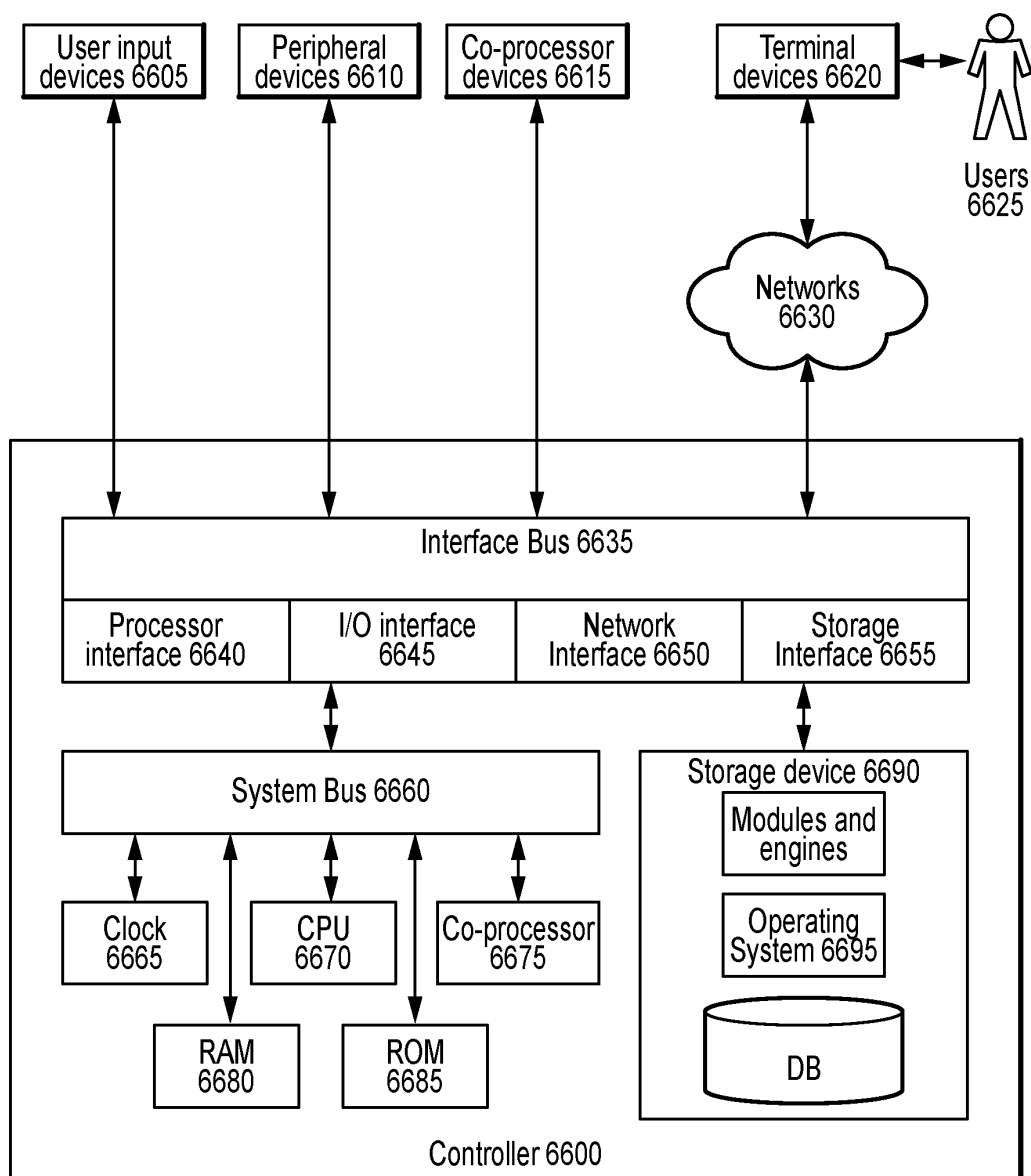


FIG.66