

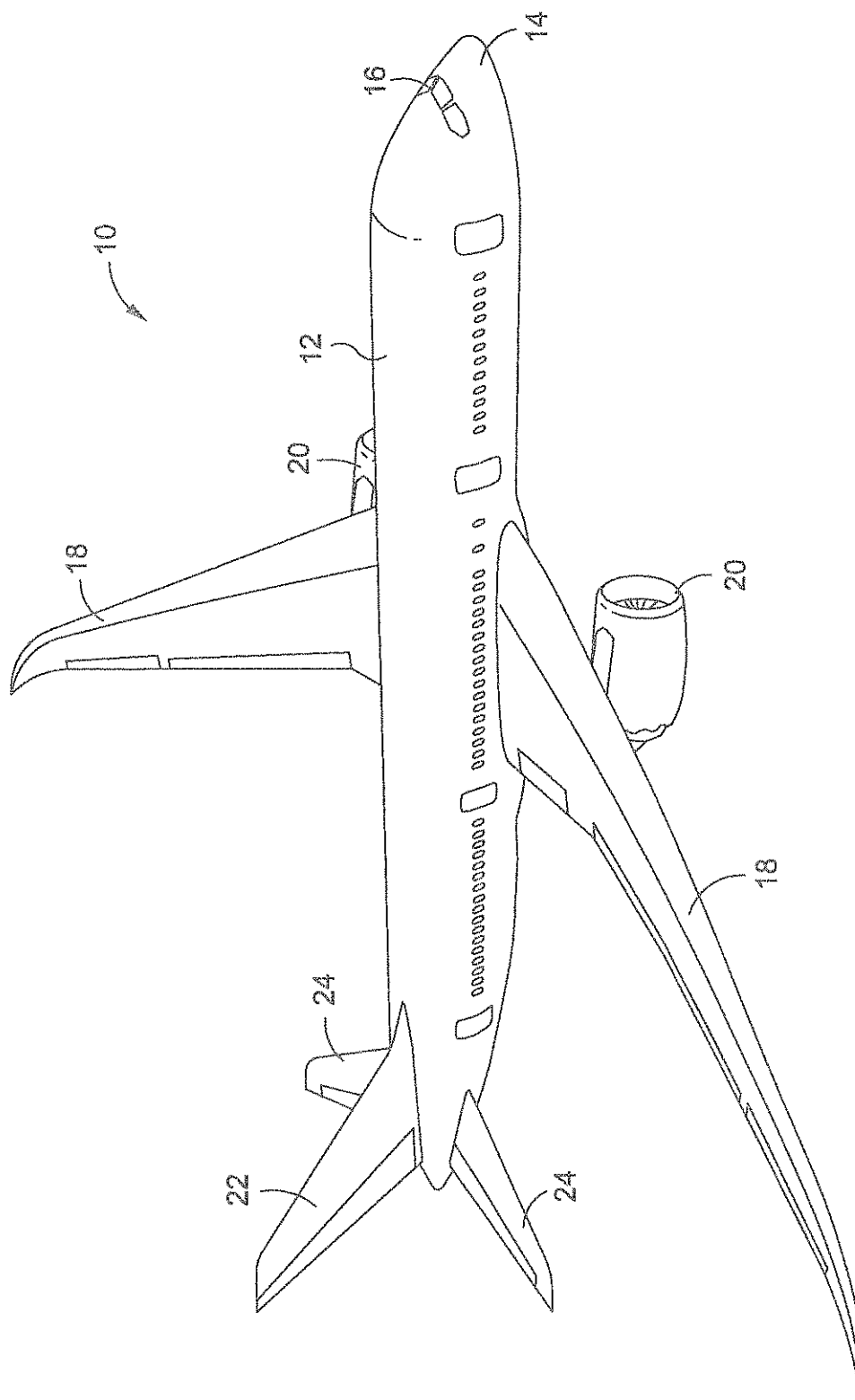
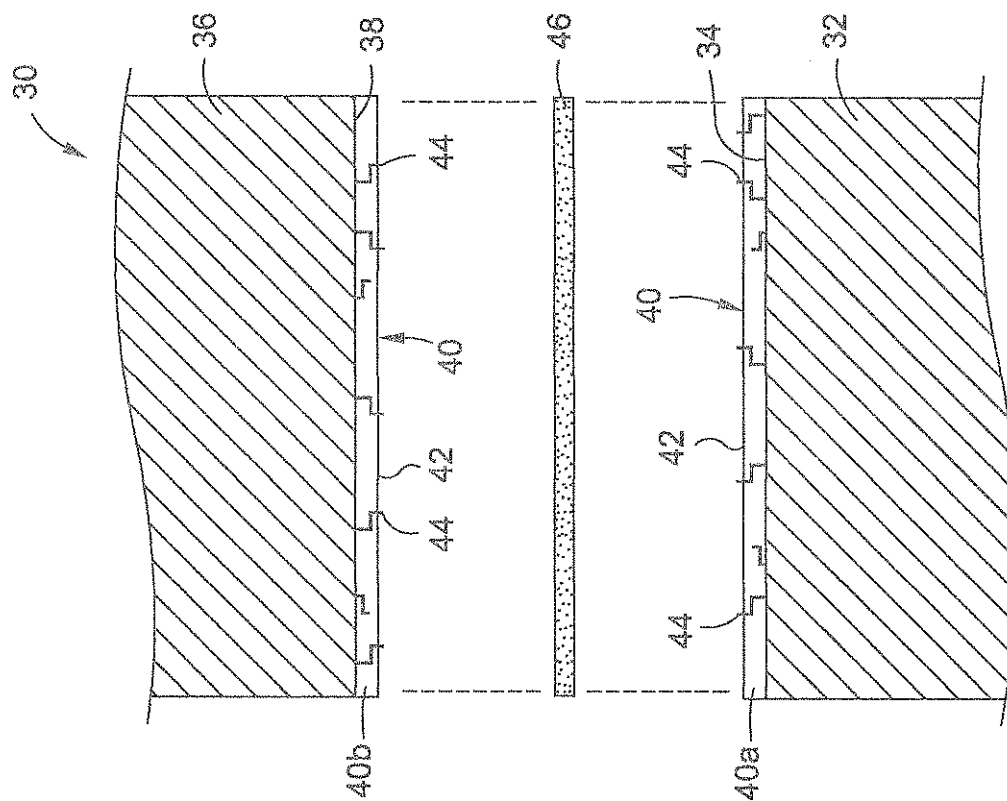
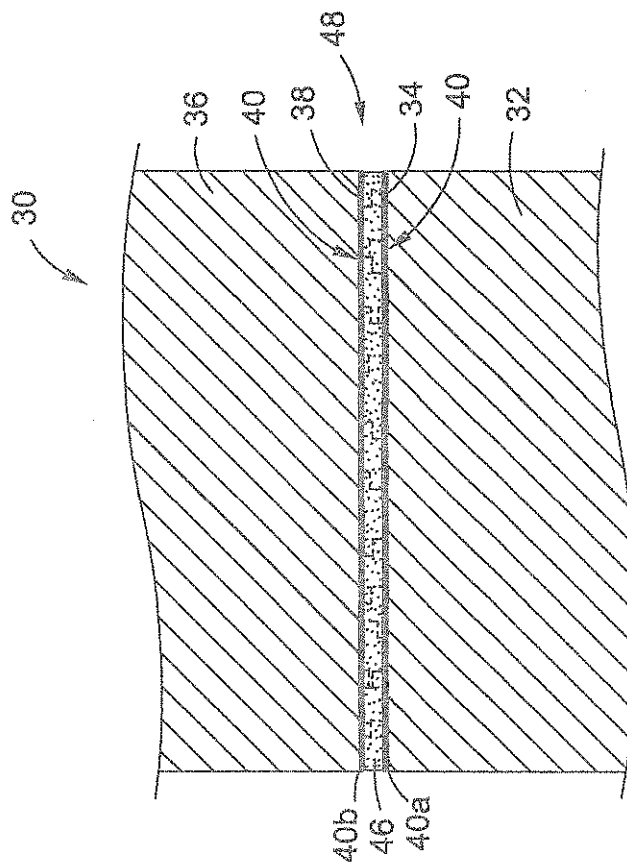


FIG. 1

A2G[®] ADVANTAGE[™] L.L.

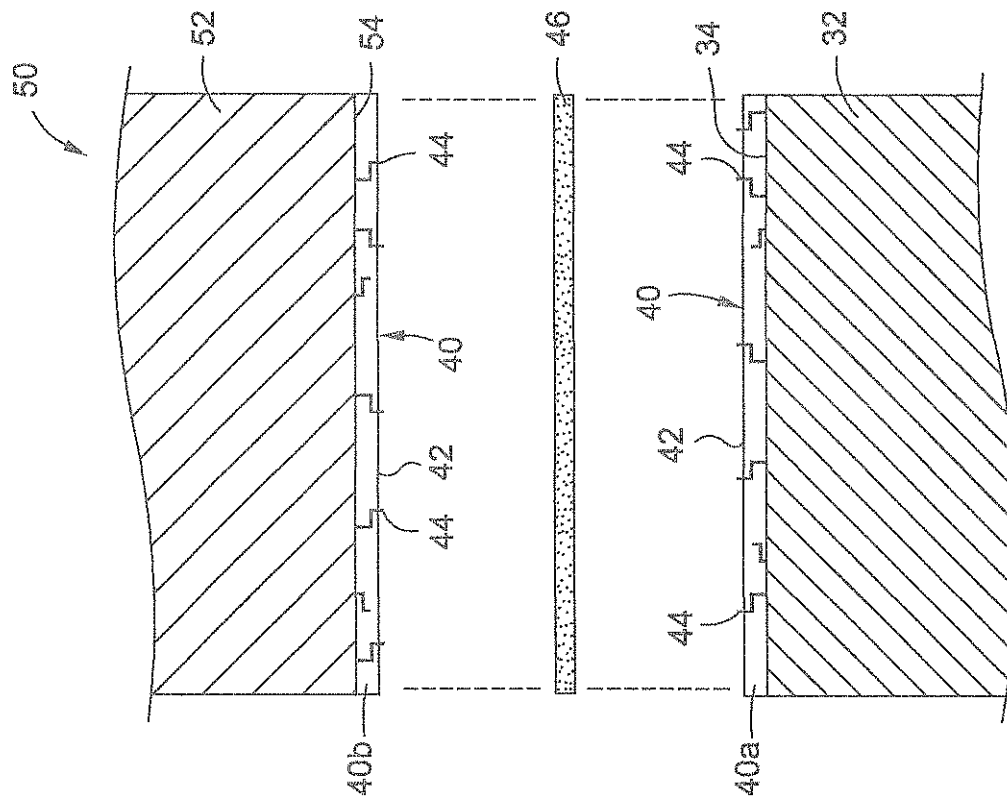


FIG. 2C

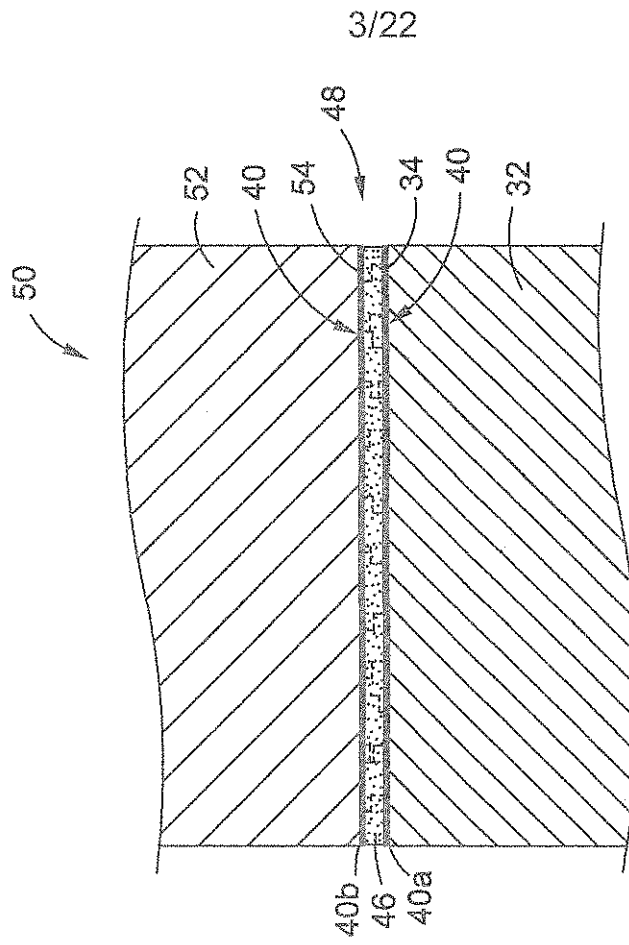


FIG. 2D

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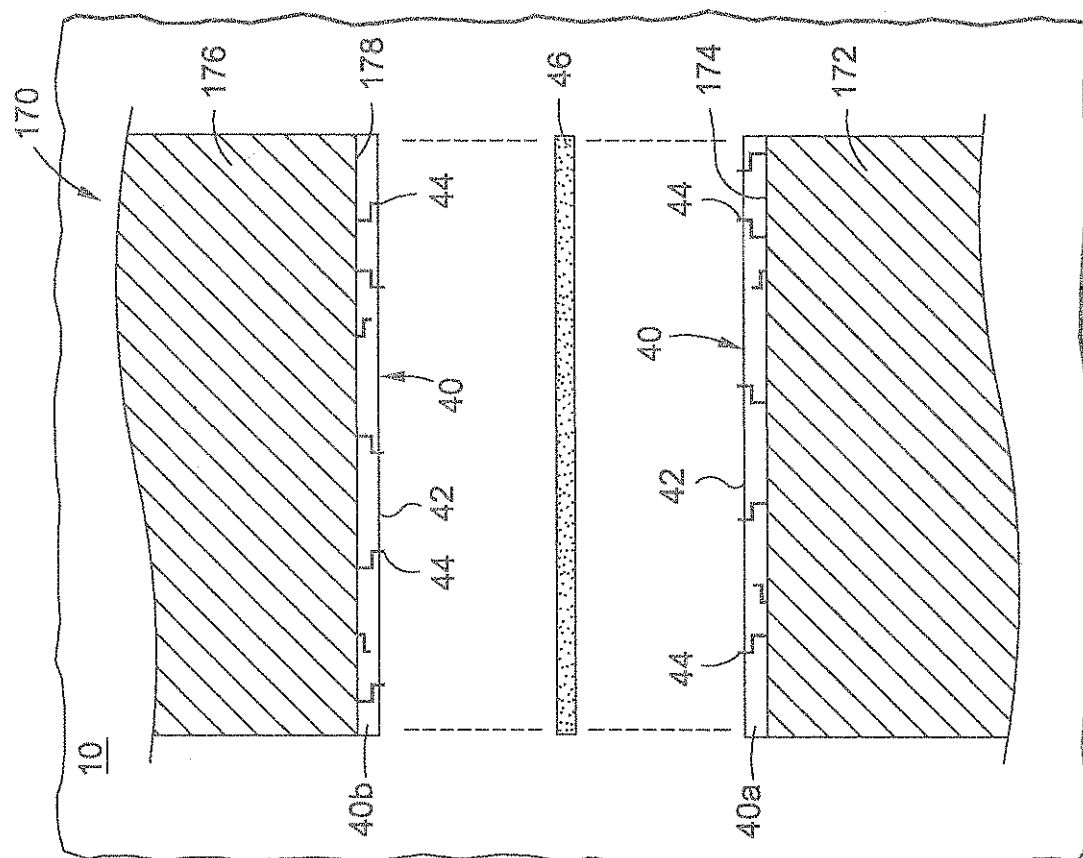


FIG. 2E

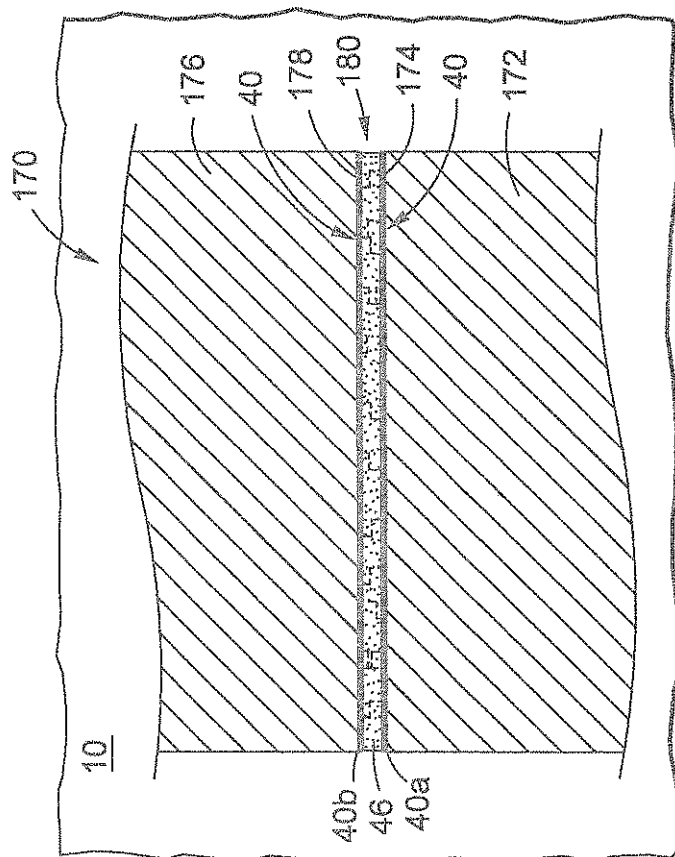
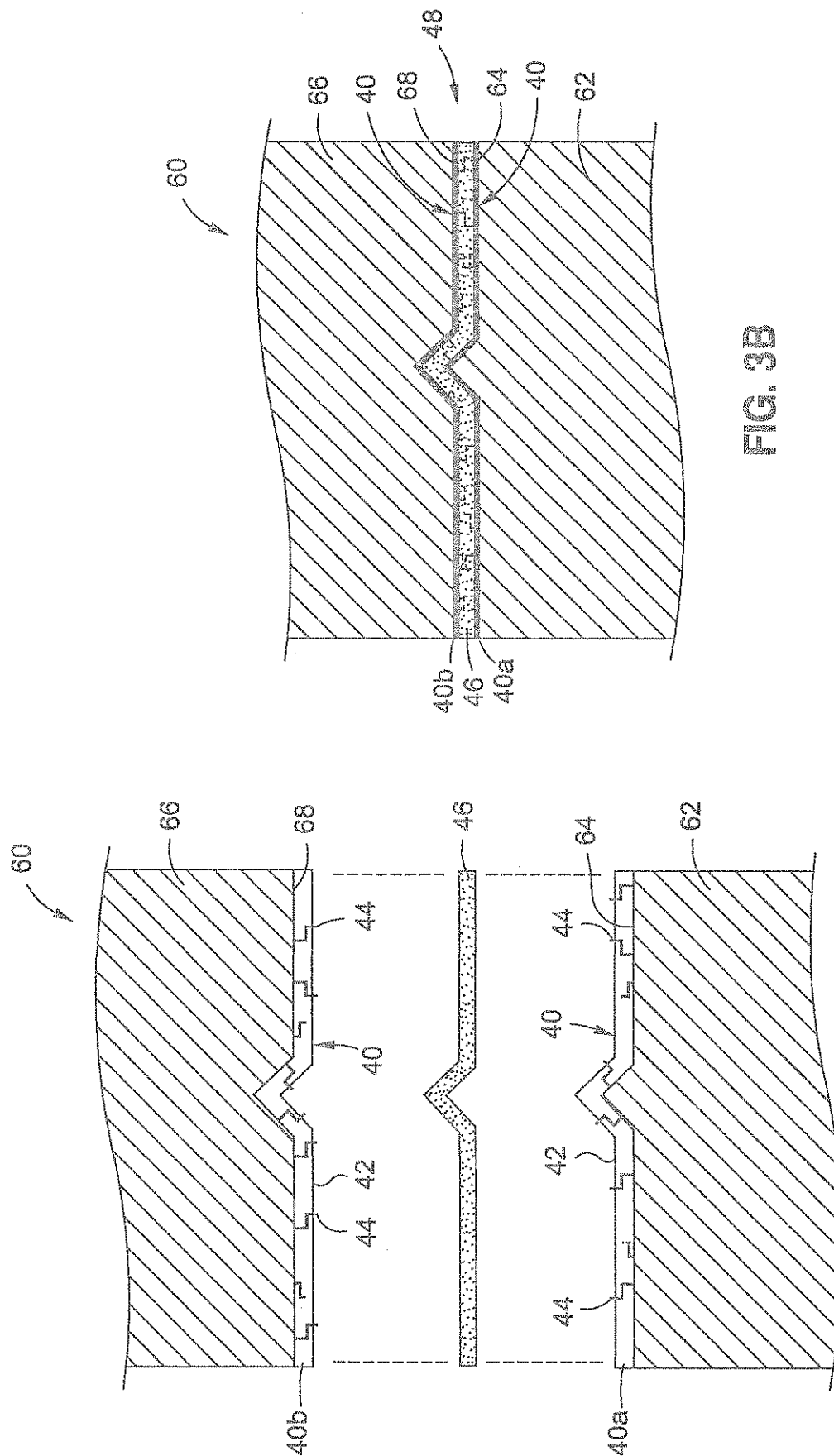


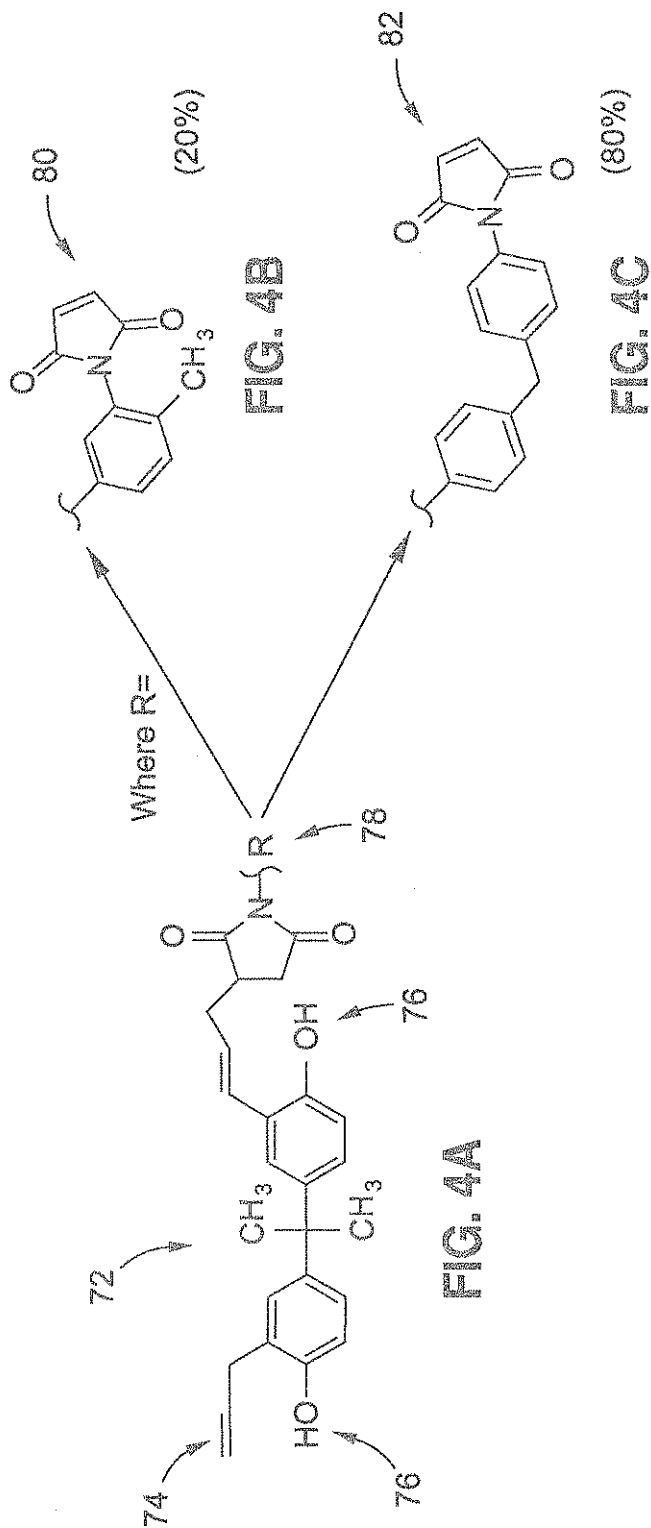
FIG. 2F

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Group:	Reaction:
allyl 74	Addition to maleimide
hydroxyl 76	Condensation to ether
propenyl; maleimide 82	Crosslinking via homopolymerization

FIG. 4D

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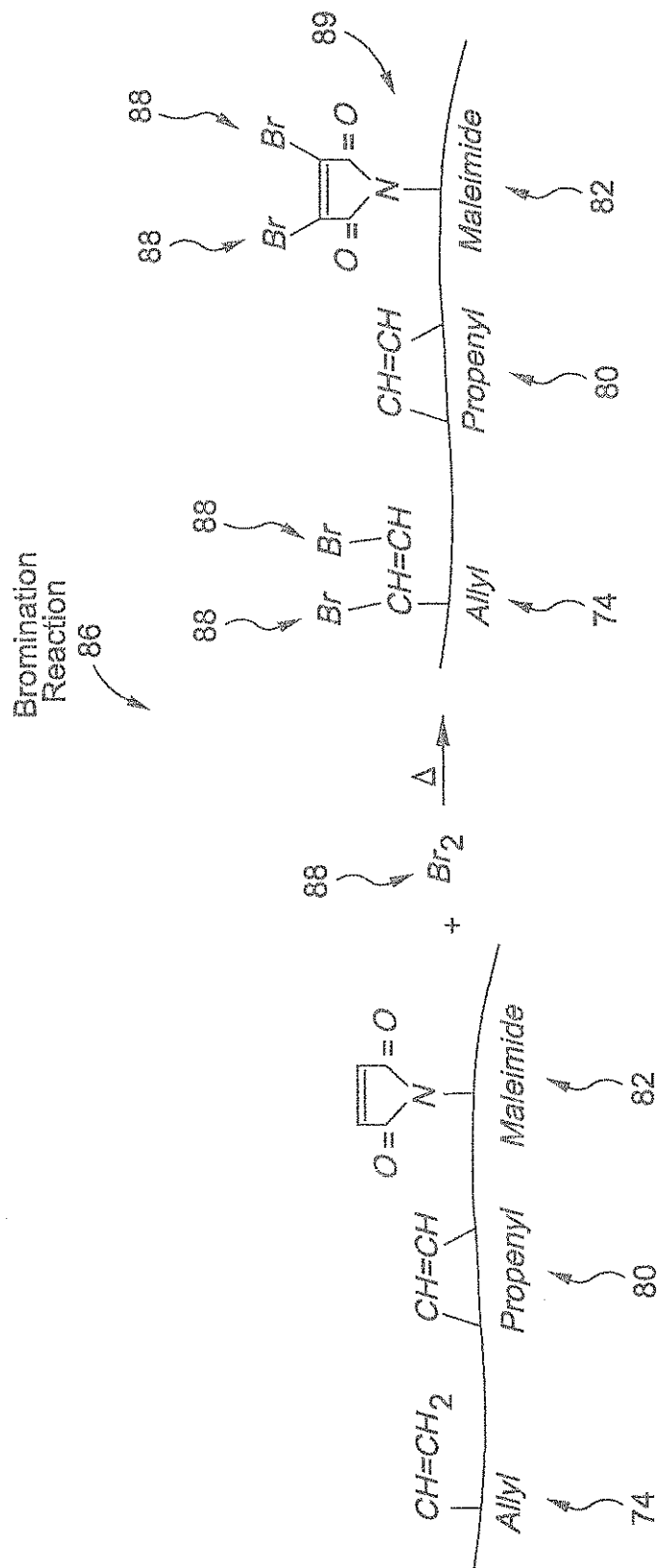
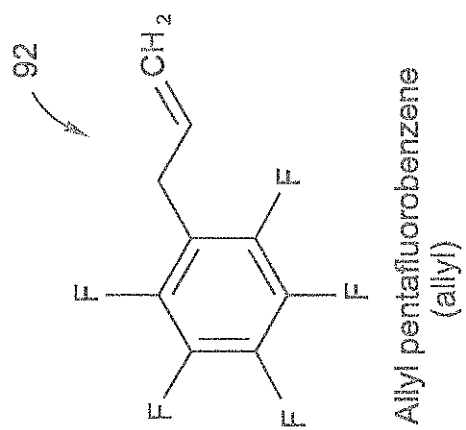


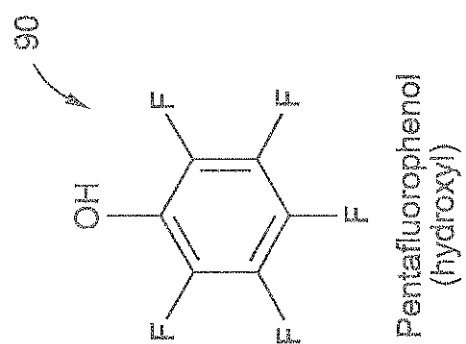
FIG. 5



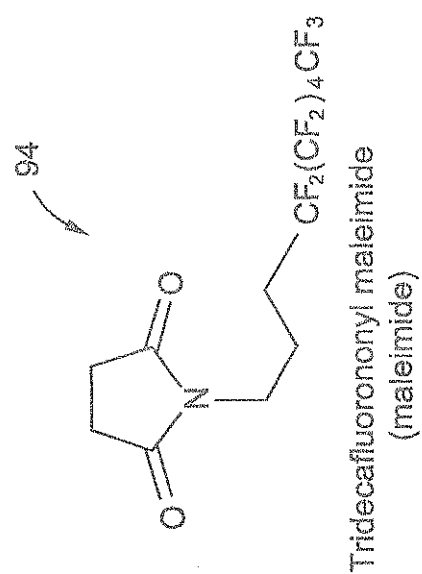
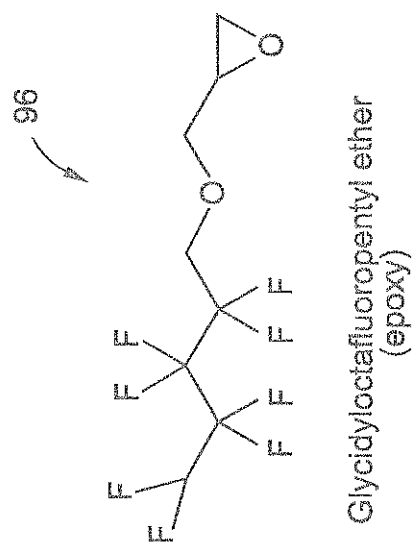








ALCOA



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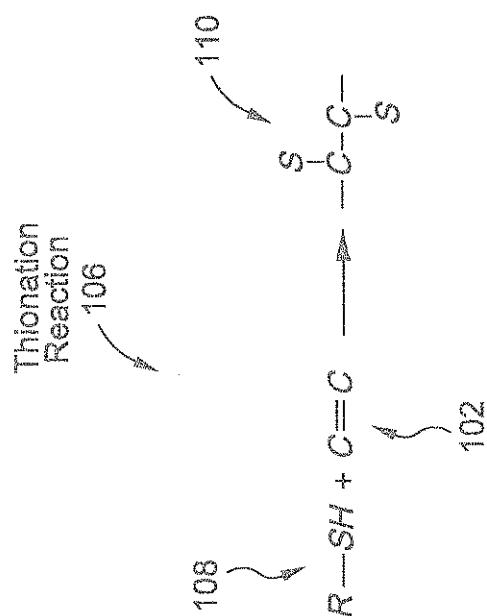


FIG. 8

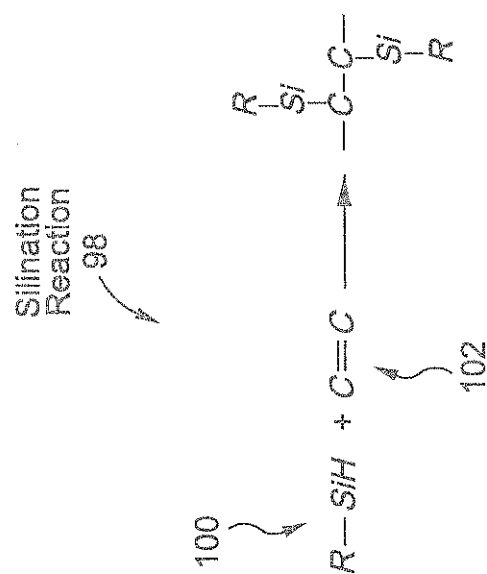


FIG. 7

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Potential BMI adhesion reactions

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Group	Type	Possible reactions with BMI / epoxy adhesive	Temperature range (°C)
1	Allyl <u>74</u>	Ene addition to maleimide	200°C - 300°C
2	Hydroxyl <u>76</u>	Etherification	>240°C
2	Hydroxyl-epoxide	Epoxy addition	>100°C
3	Maleimide <u>82</u>	Maleimide addition to maleimide	>100°C

FIG. 9

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FIG. 10

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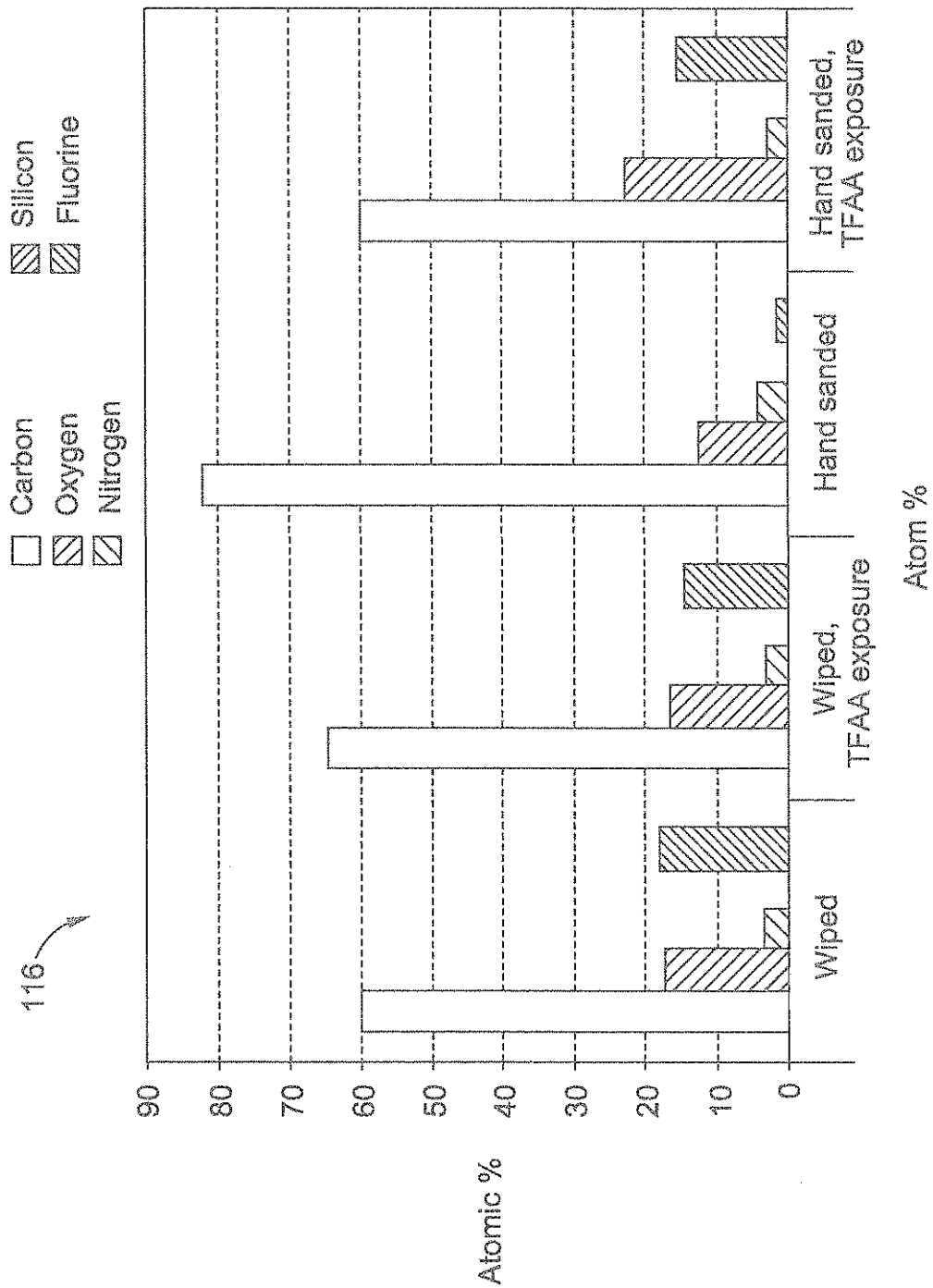


FIG. 11

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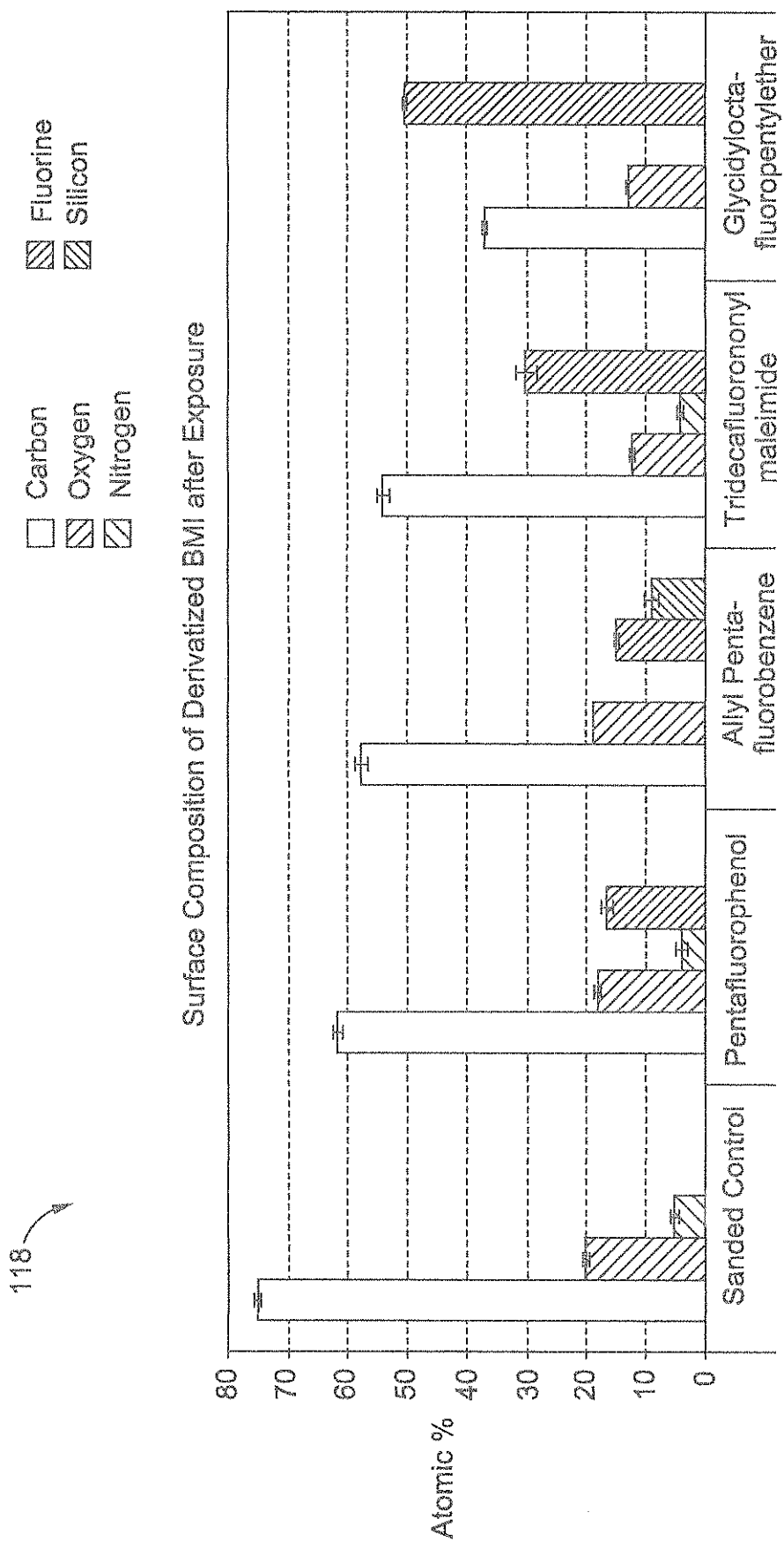


FIG. 12

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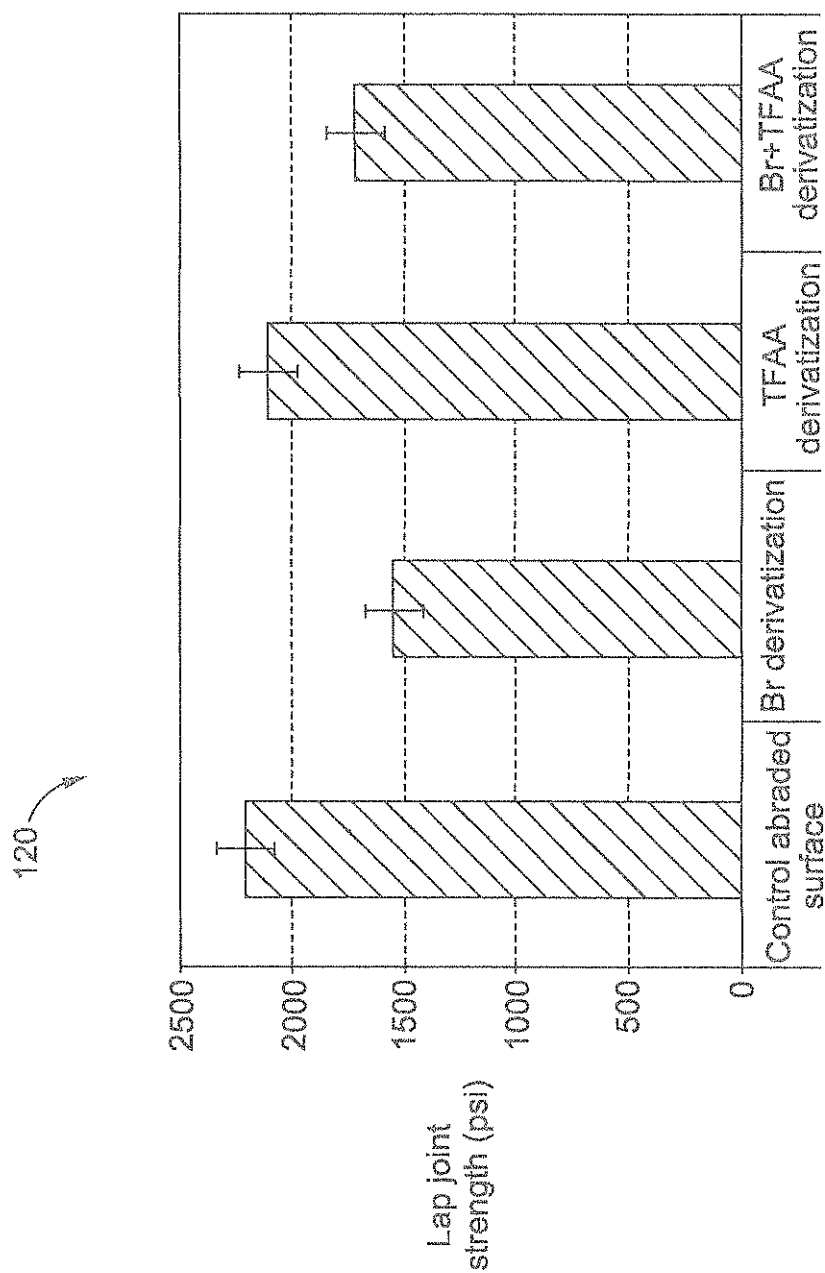


FIG. 13

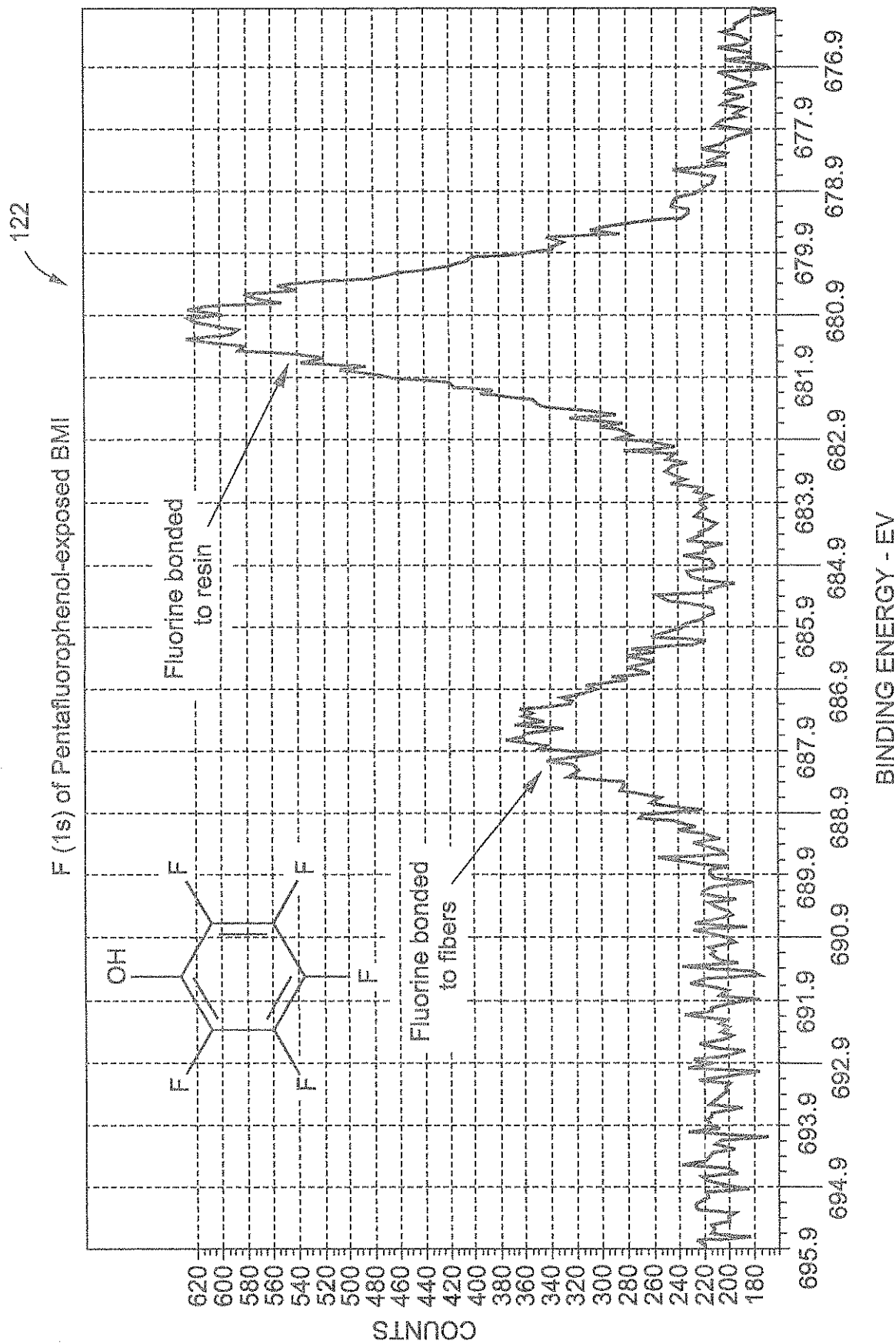


FIG. 14

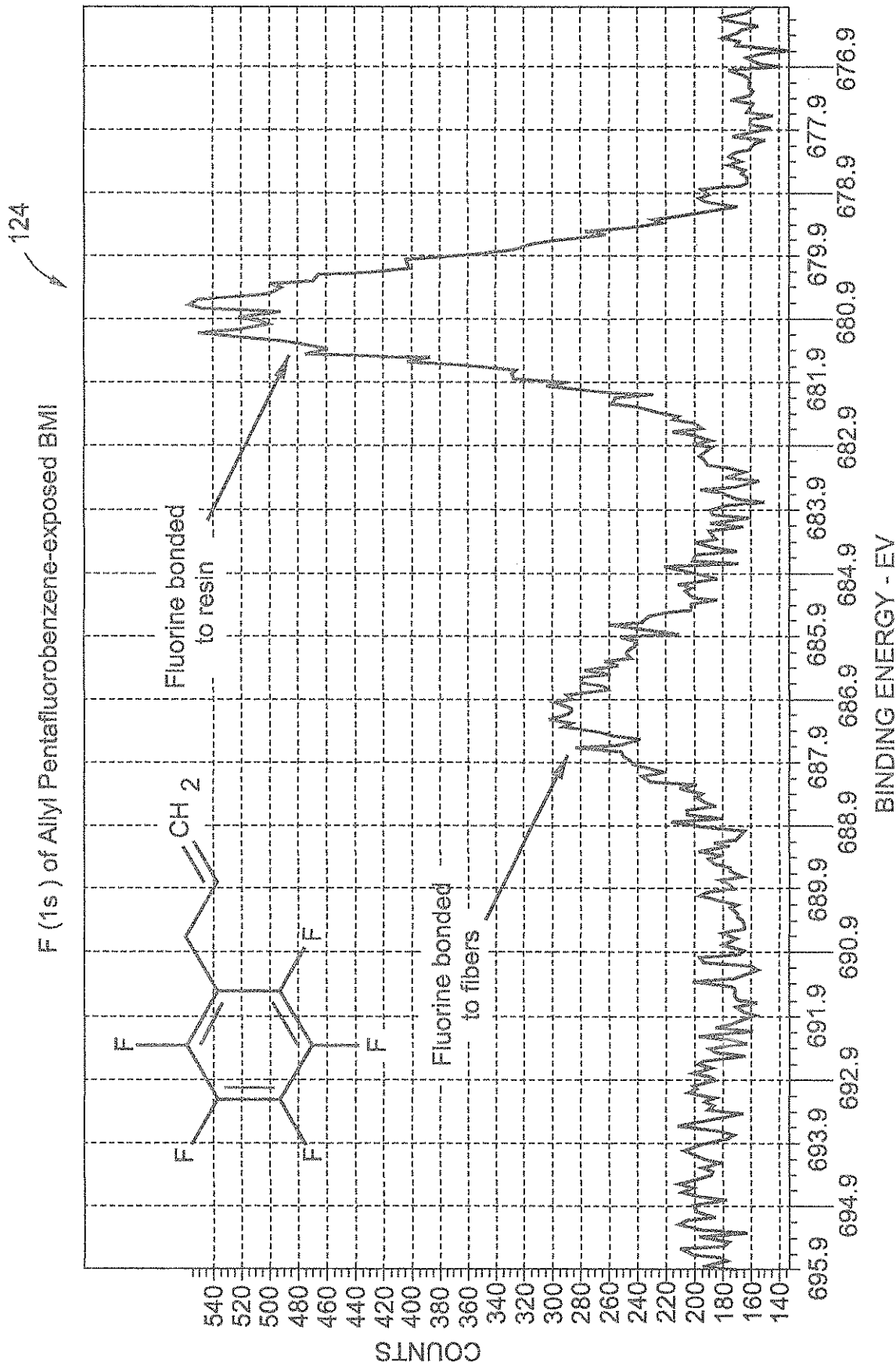


FIG. 15

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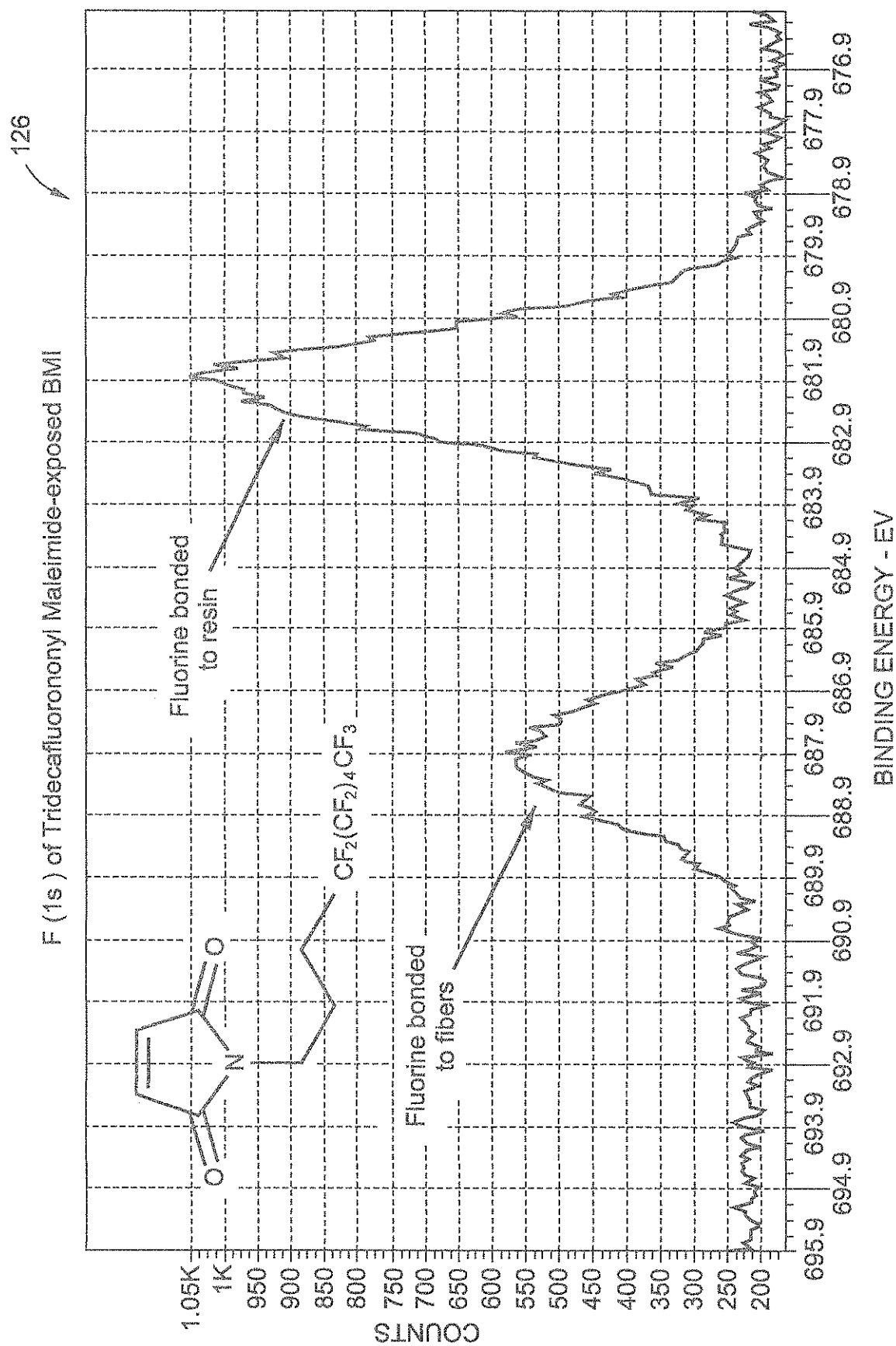


FIG. 16

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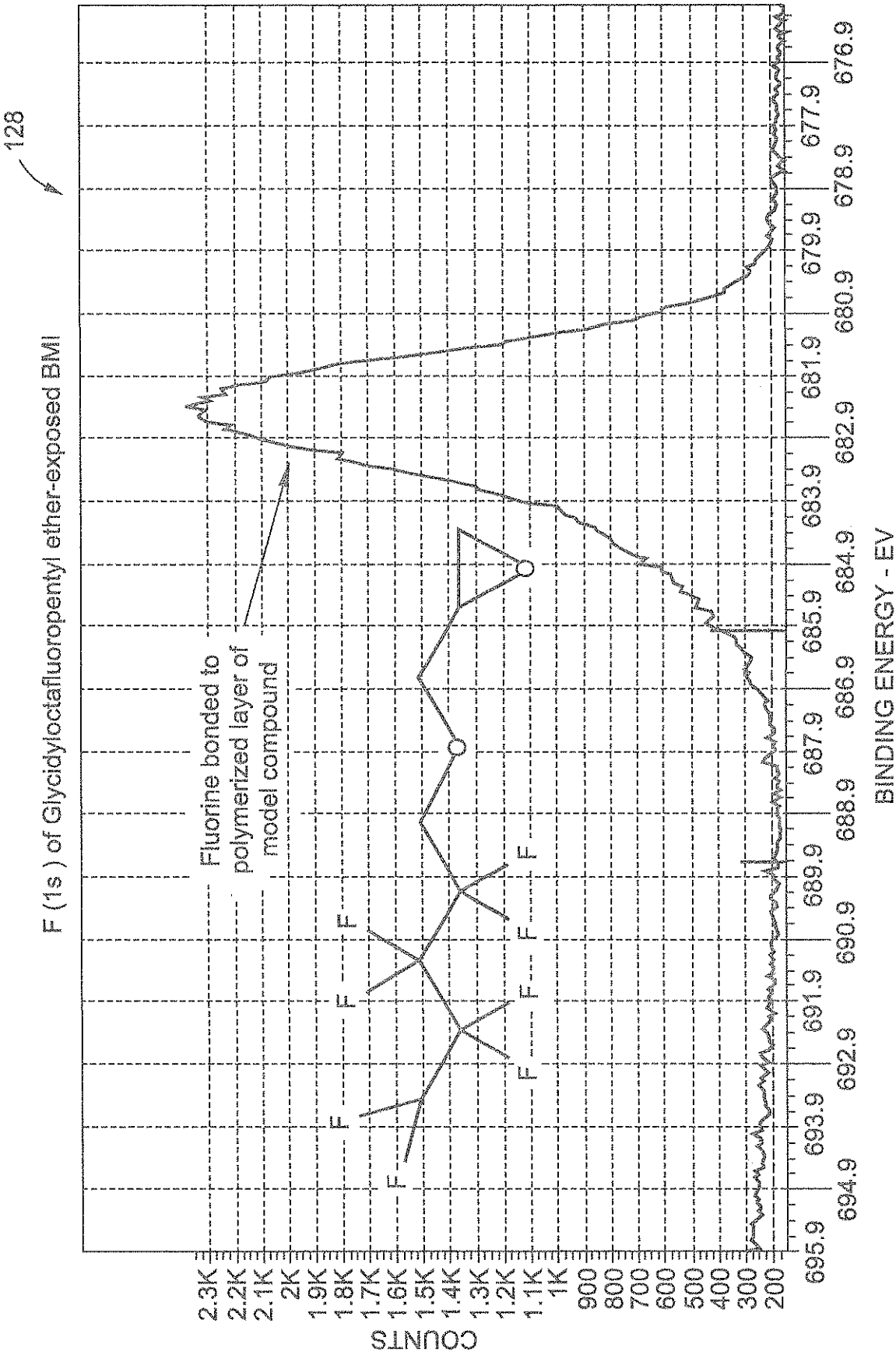


FIG. 17

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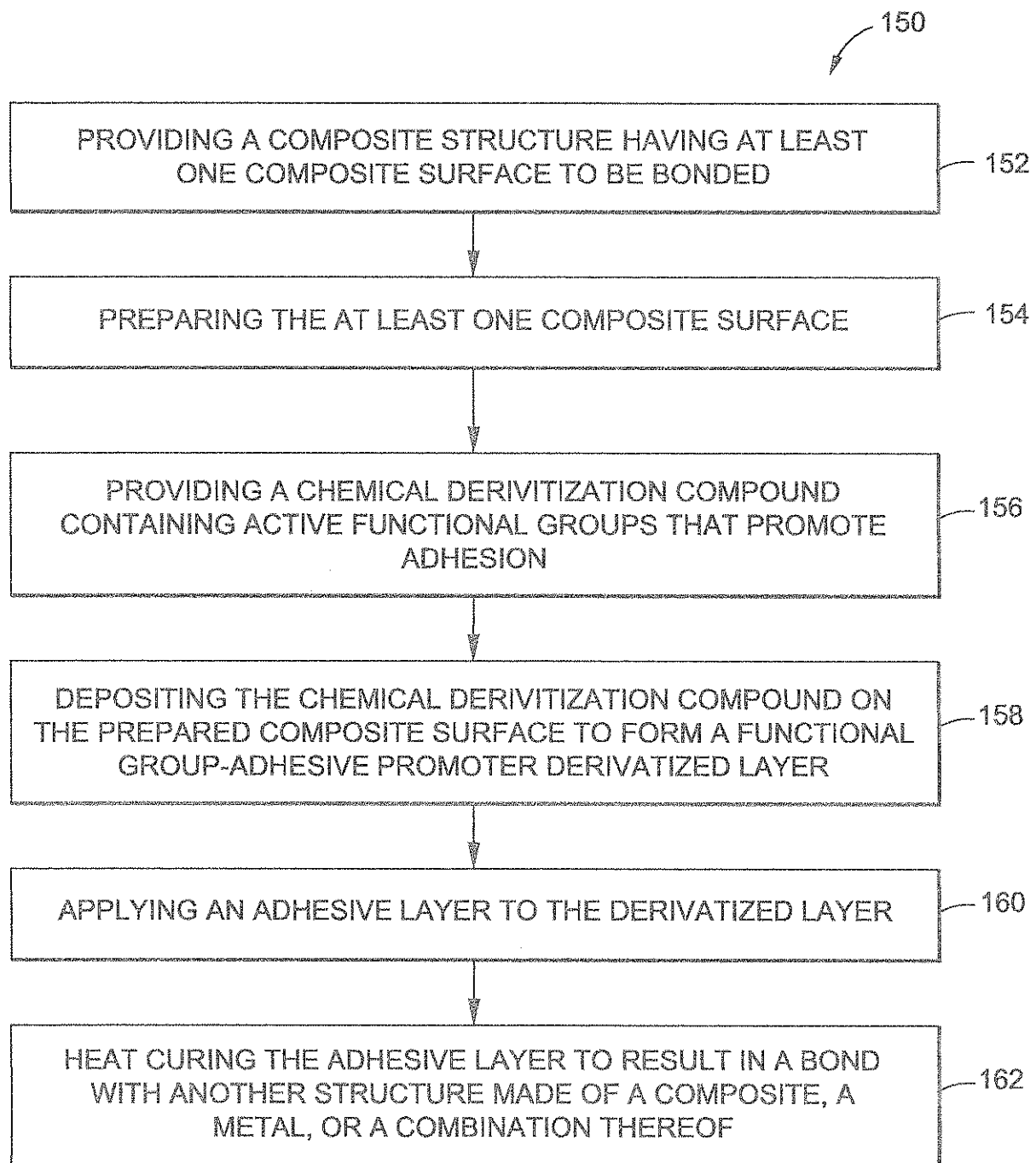


FIG. 18

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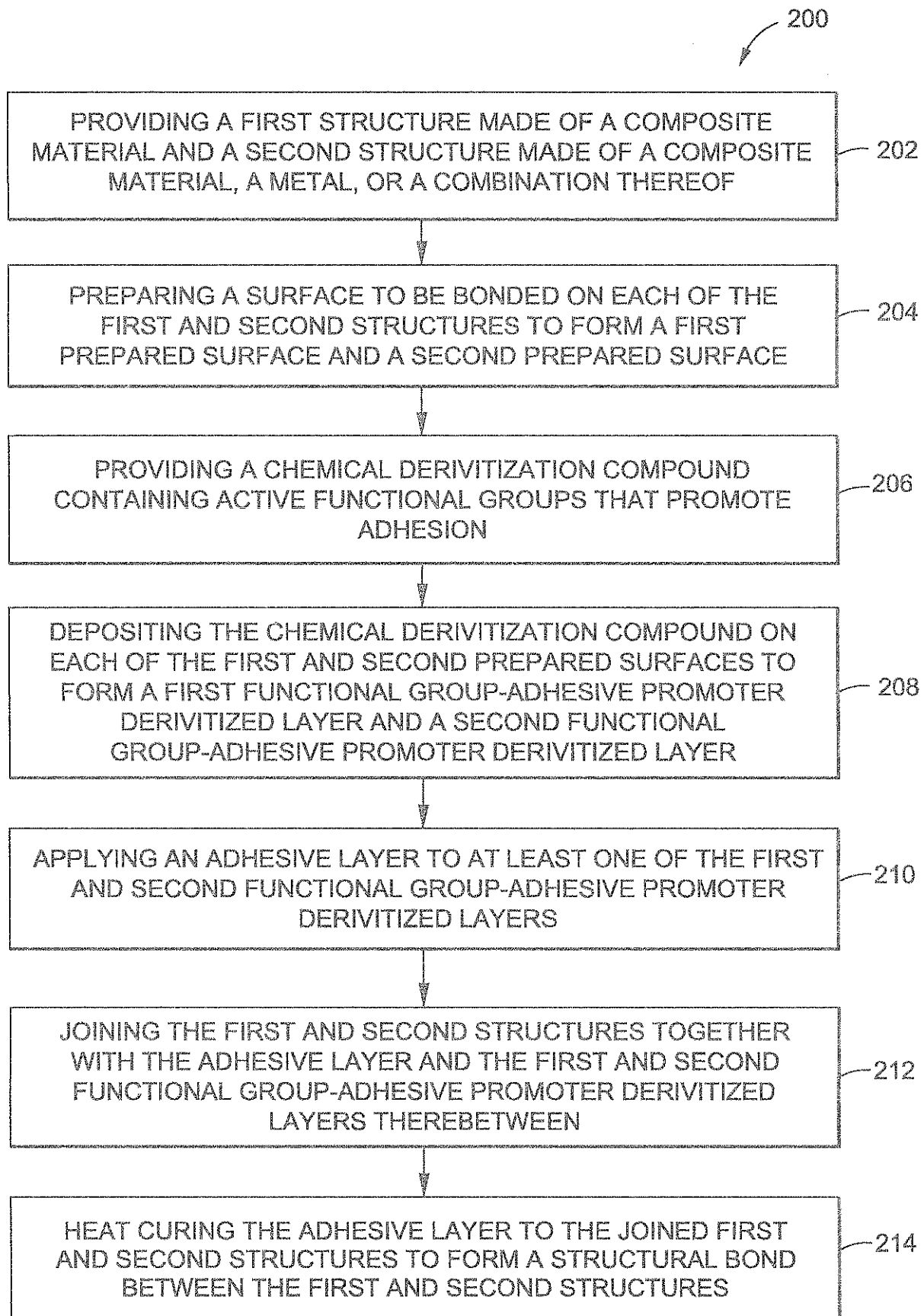


FIG. 19

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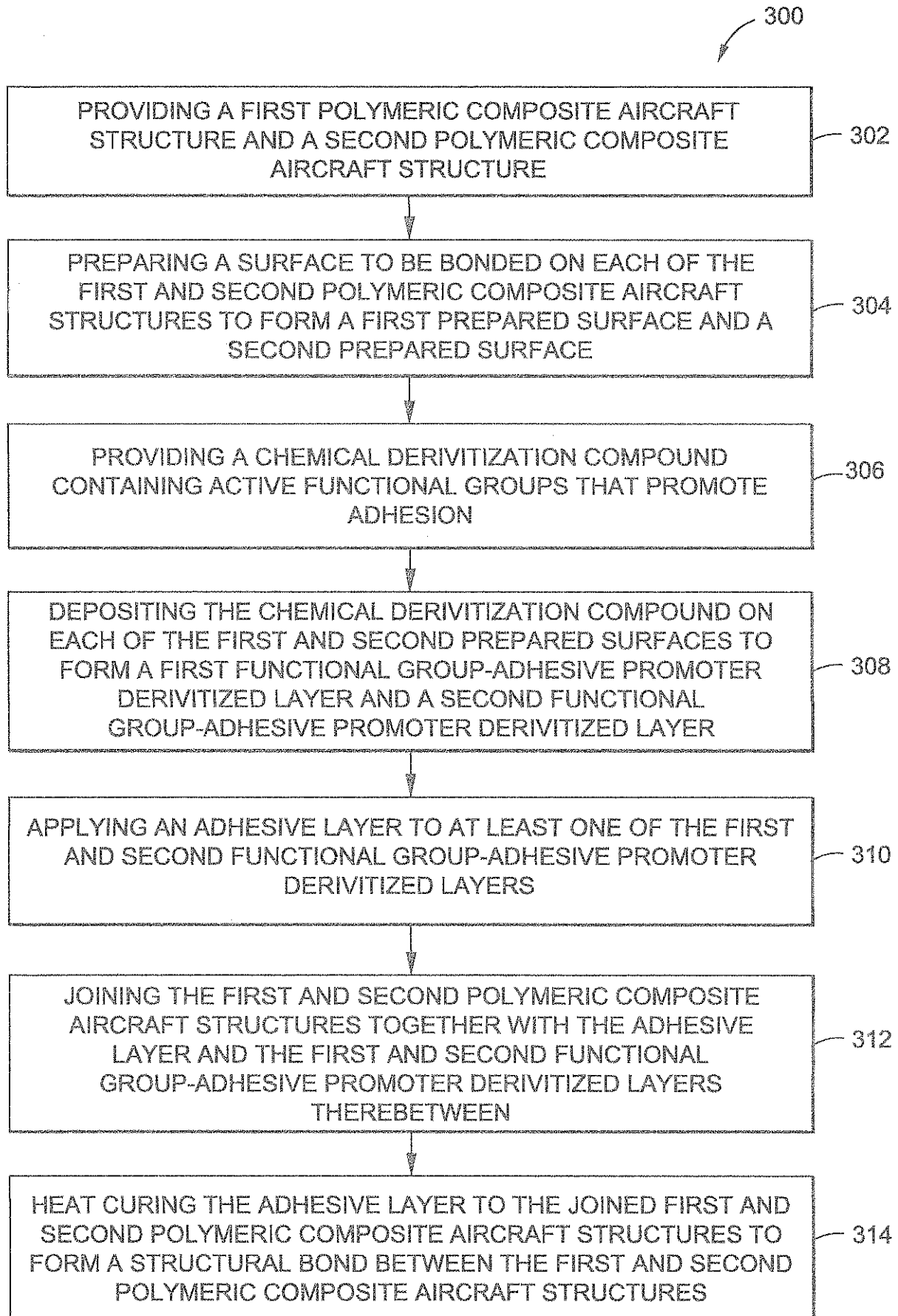
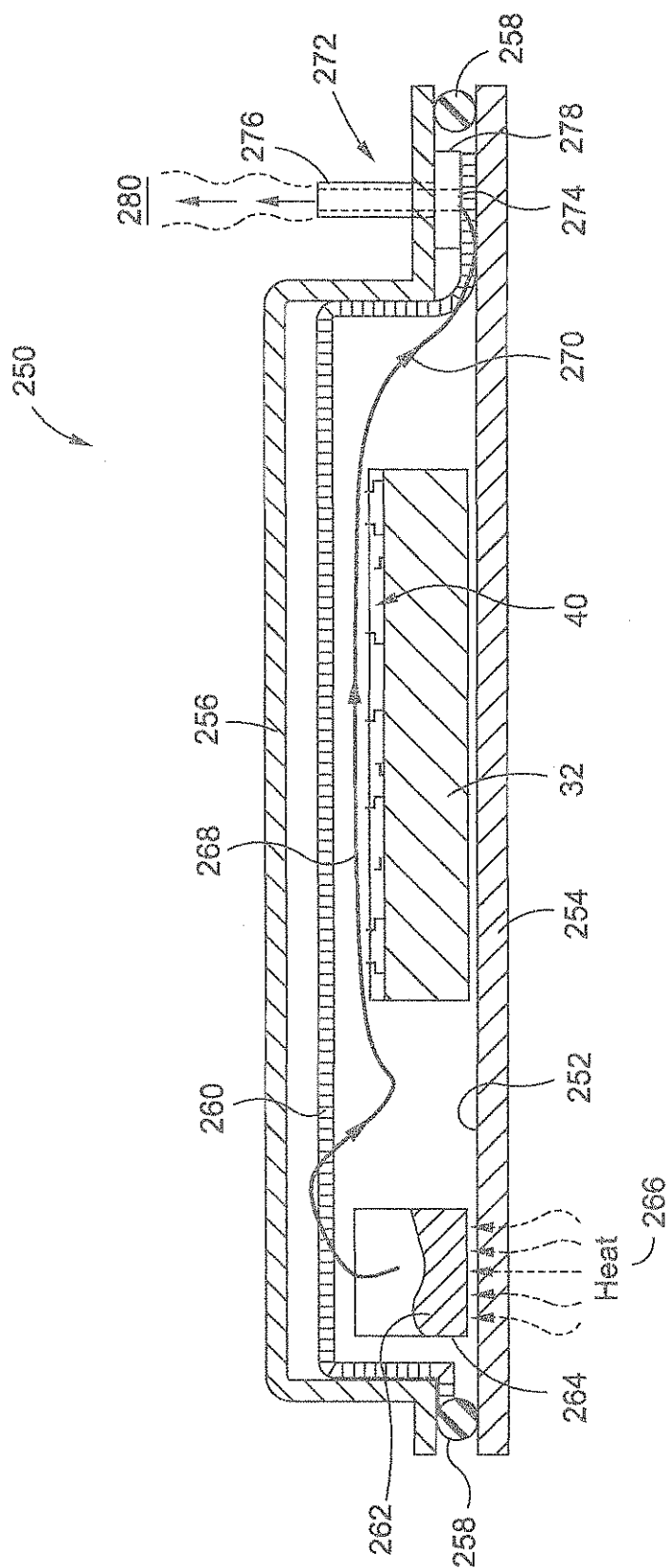


FIG. 20



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