

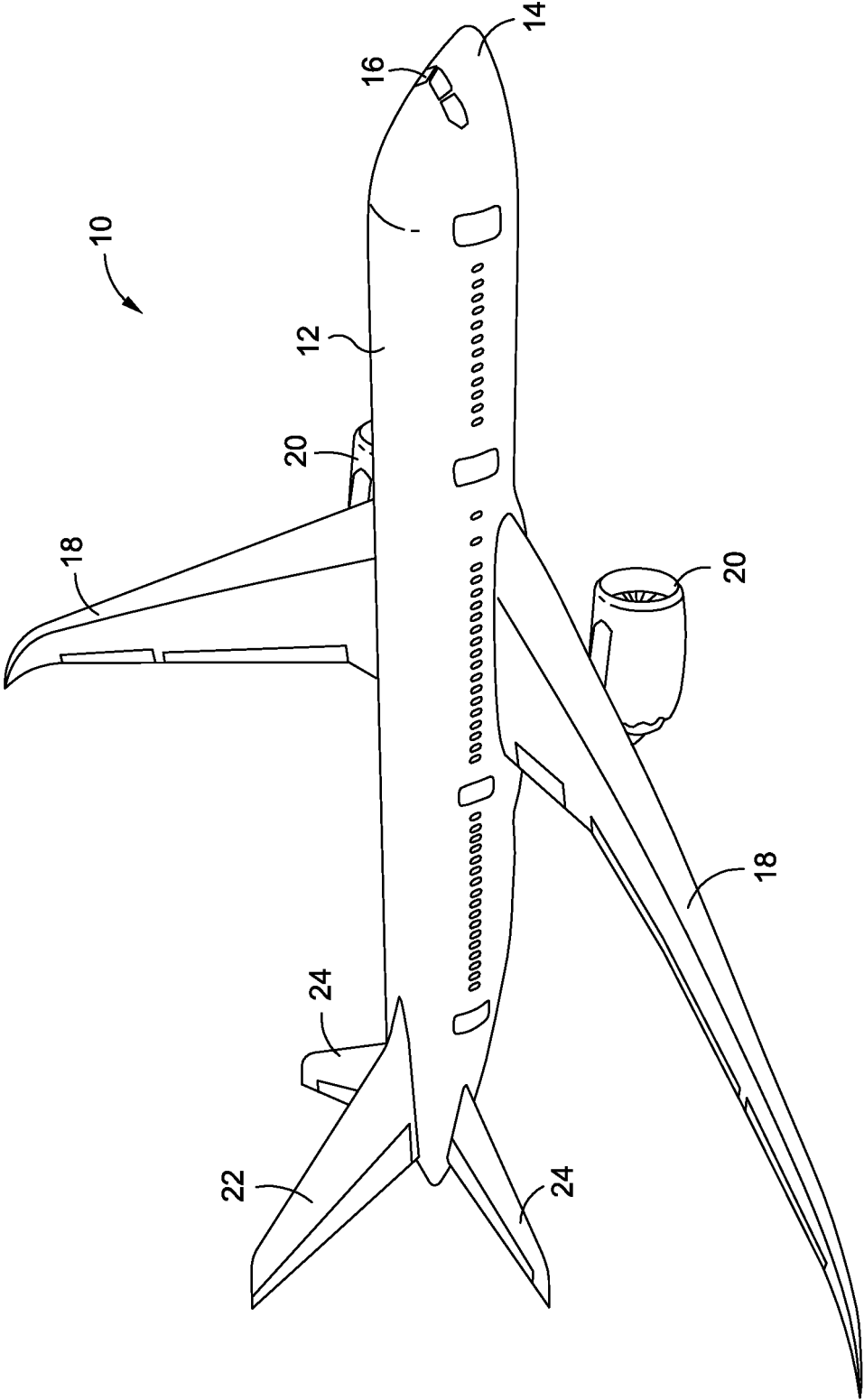


FIG. 1

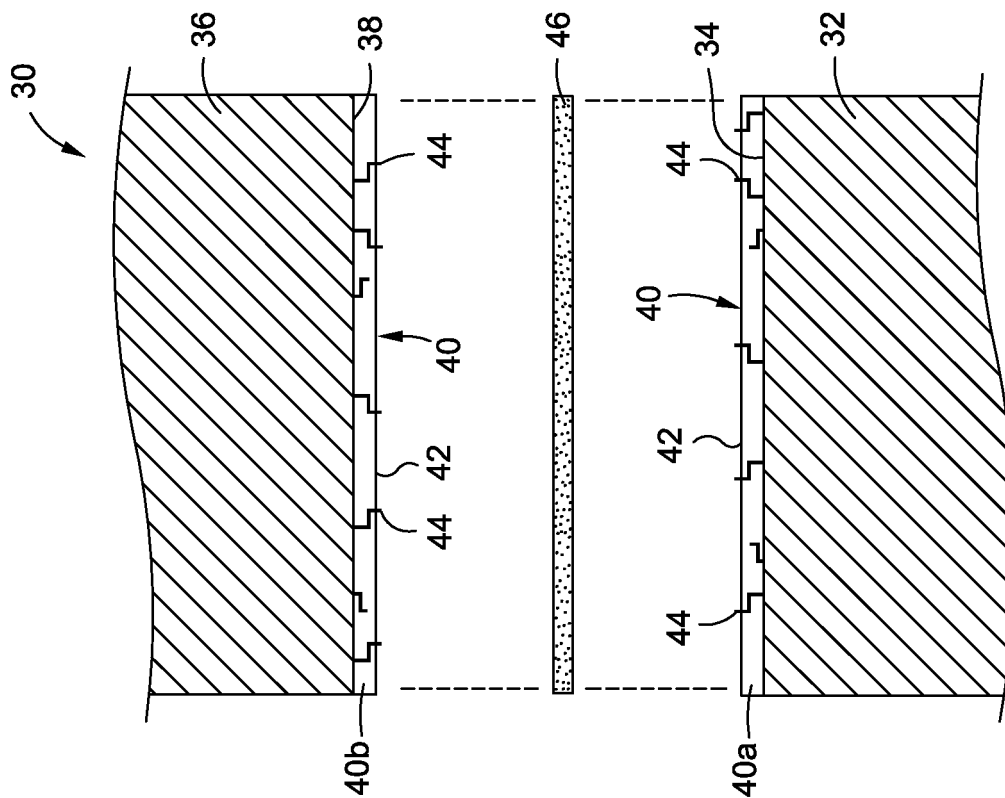


FIG. 2A

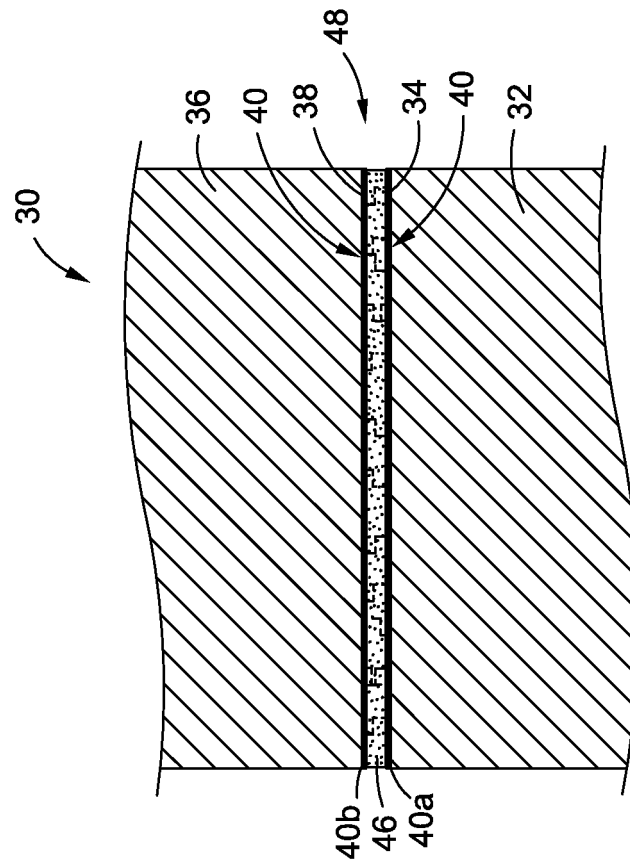


FIG. 2B

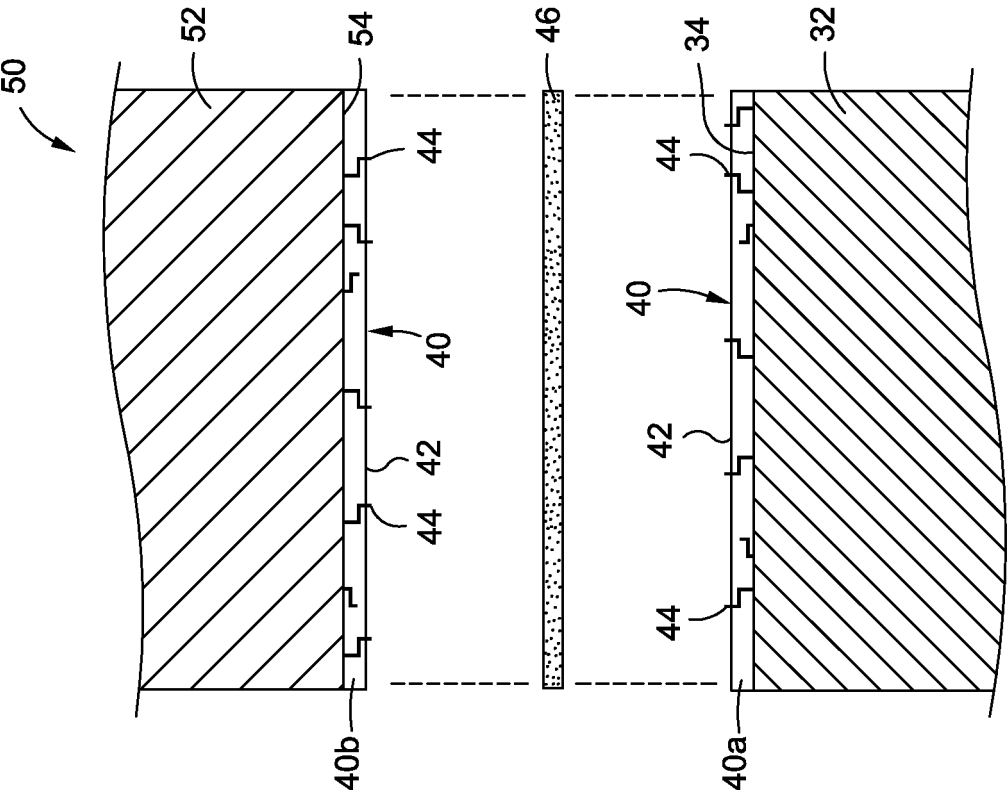


FIG. 2C

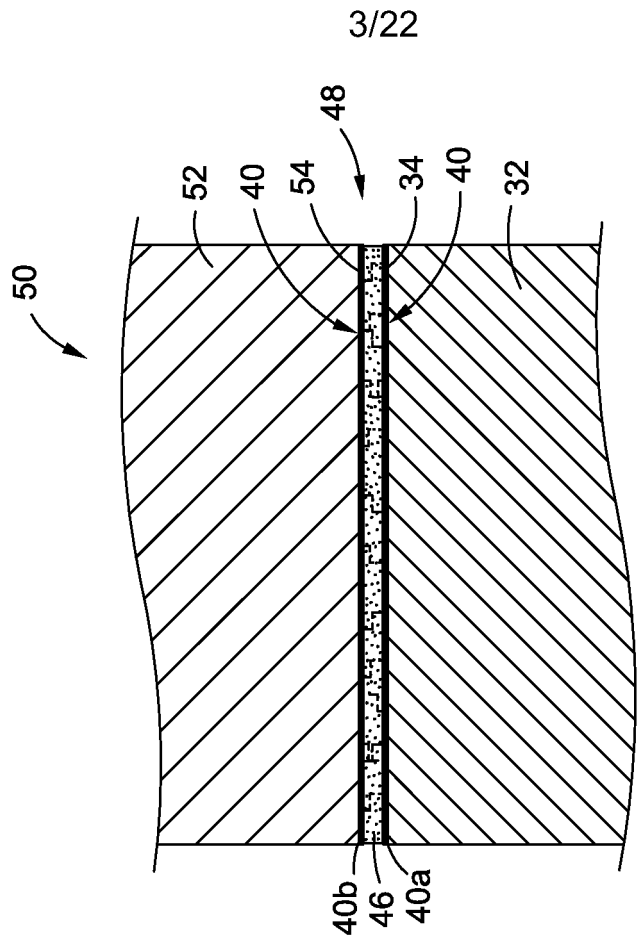


FIG. 2D

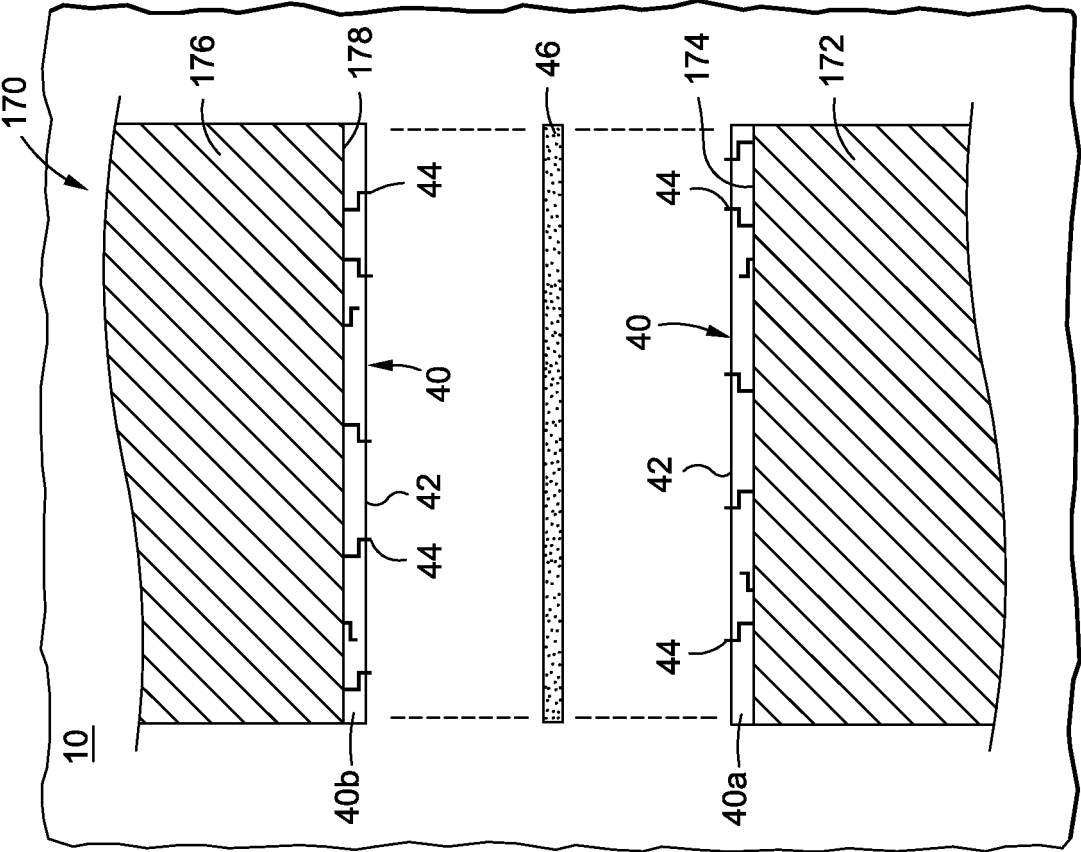


FIG. 2E

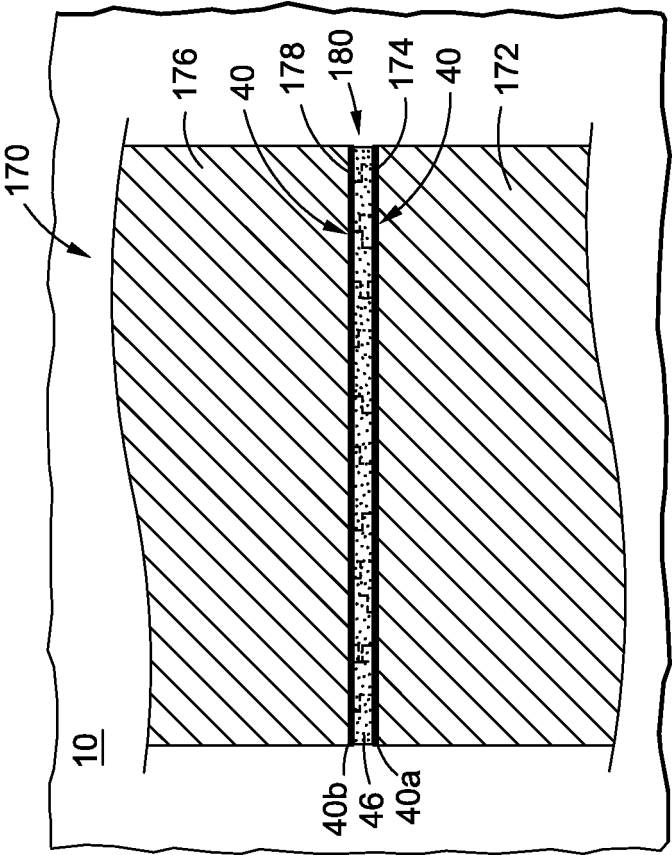


FIG. 2F

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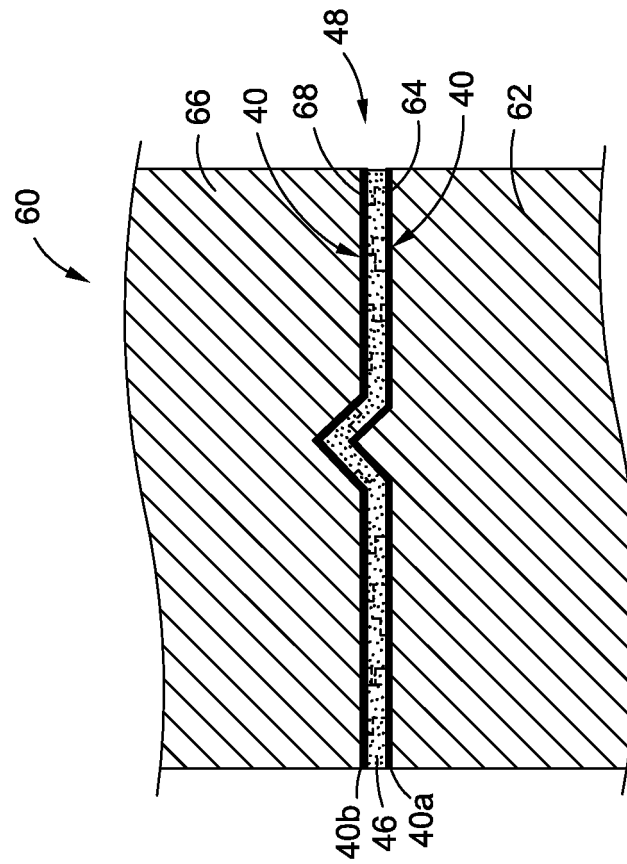


FIG. 3B

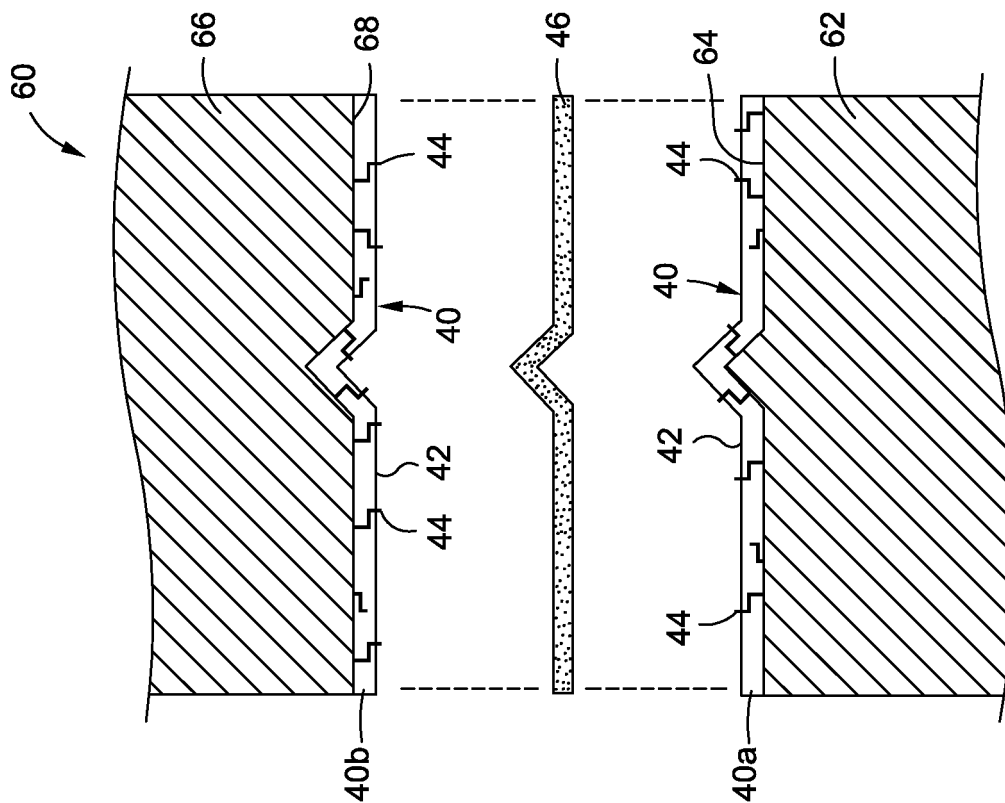
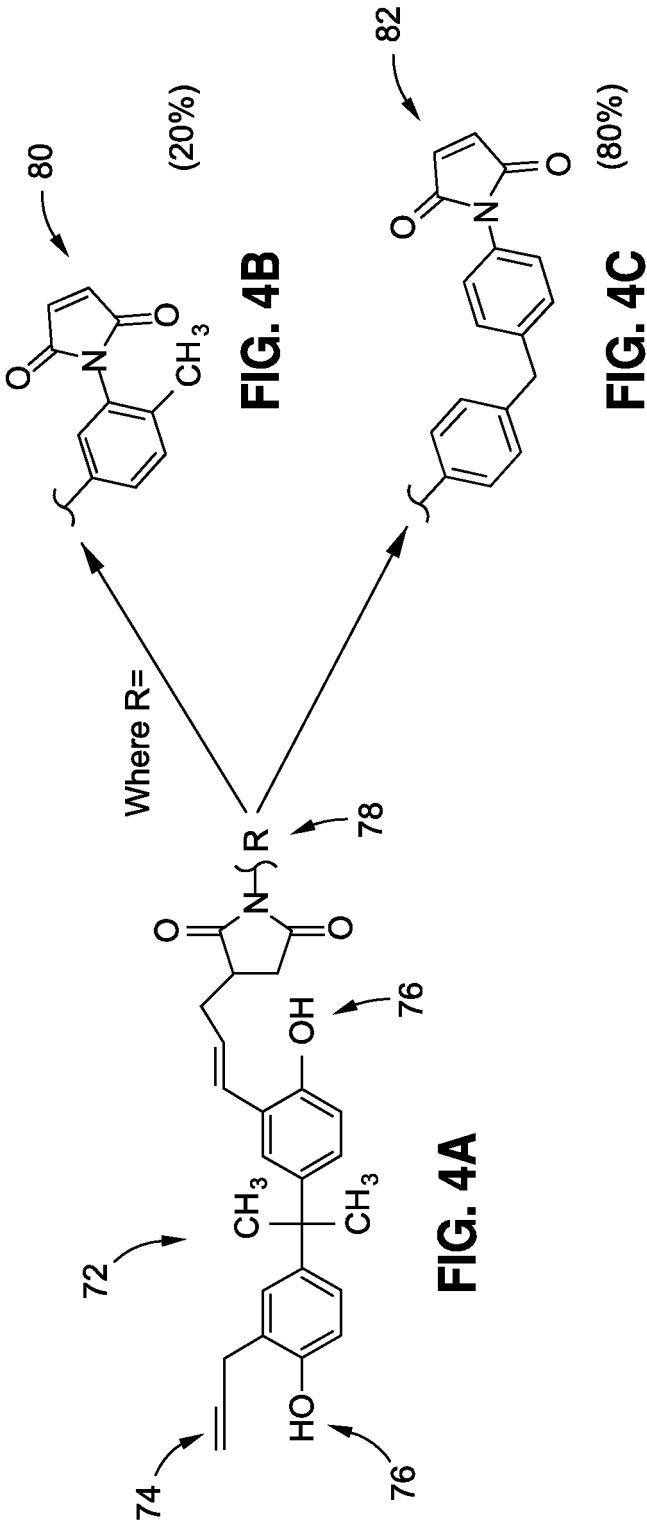


FIG. 3A

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

FIG. 4D

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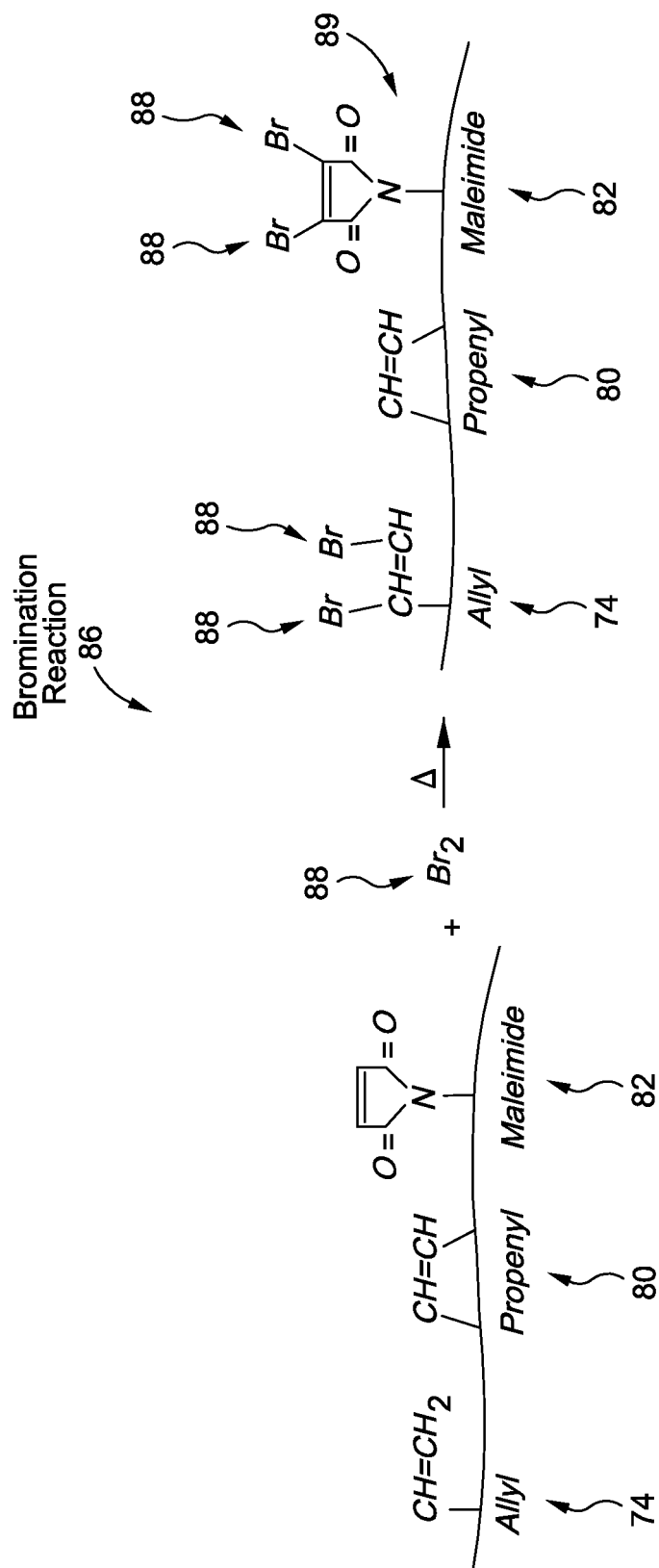
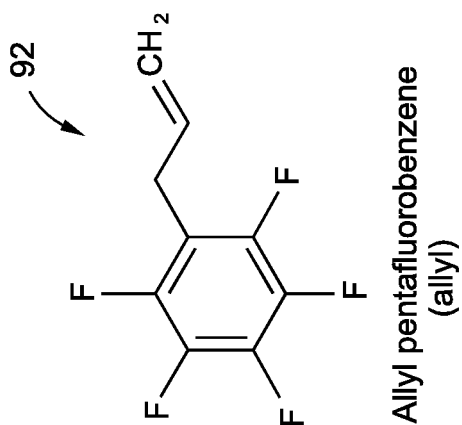
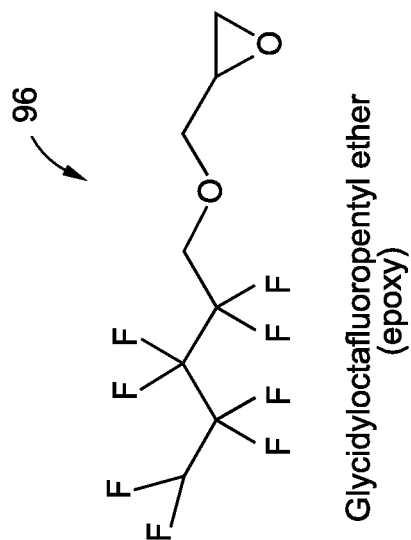
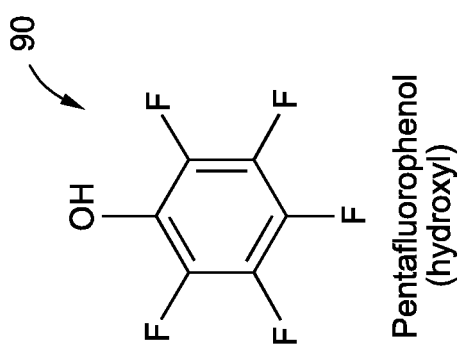
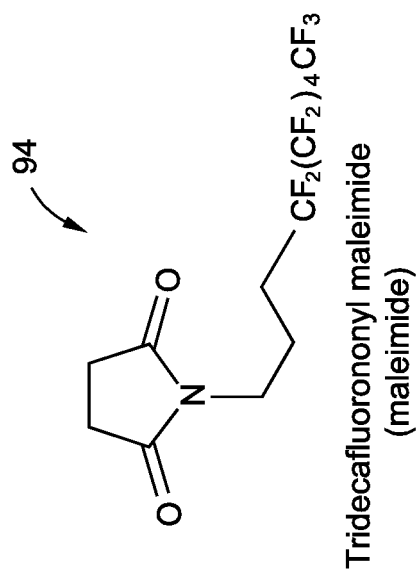


FIG. 5

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**FIG. 6B****FIG. 6D****FIG. 6A****FIG. 6C**

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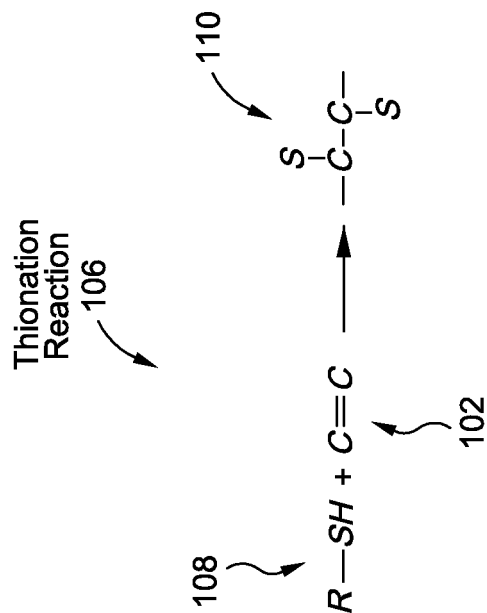


FIG. 8

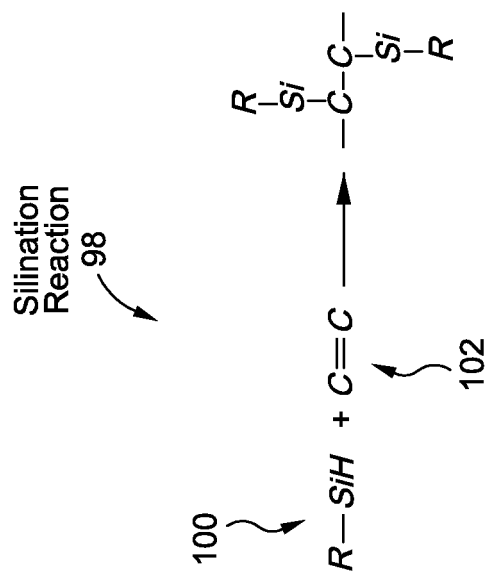


FIG. 7

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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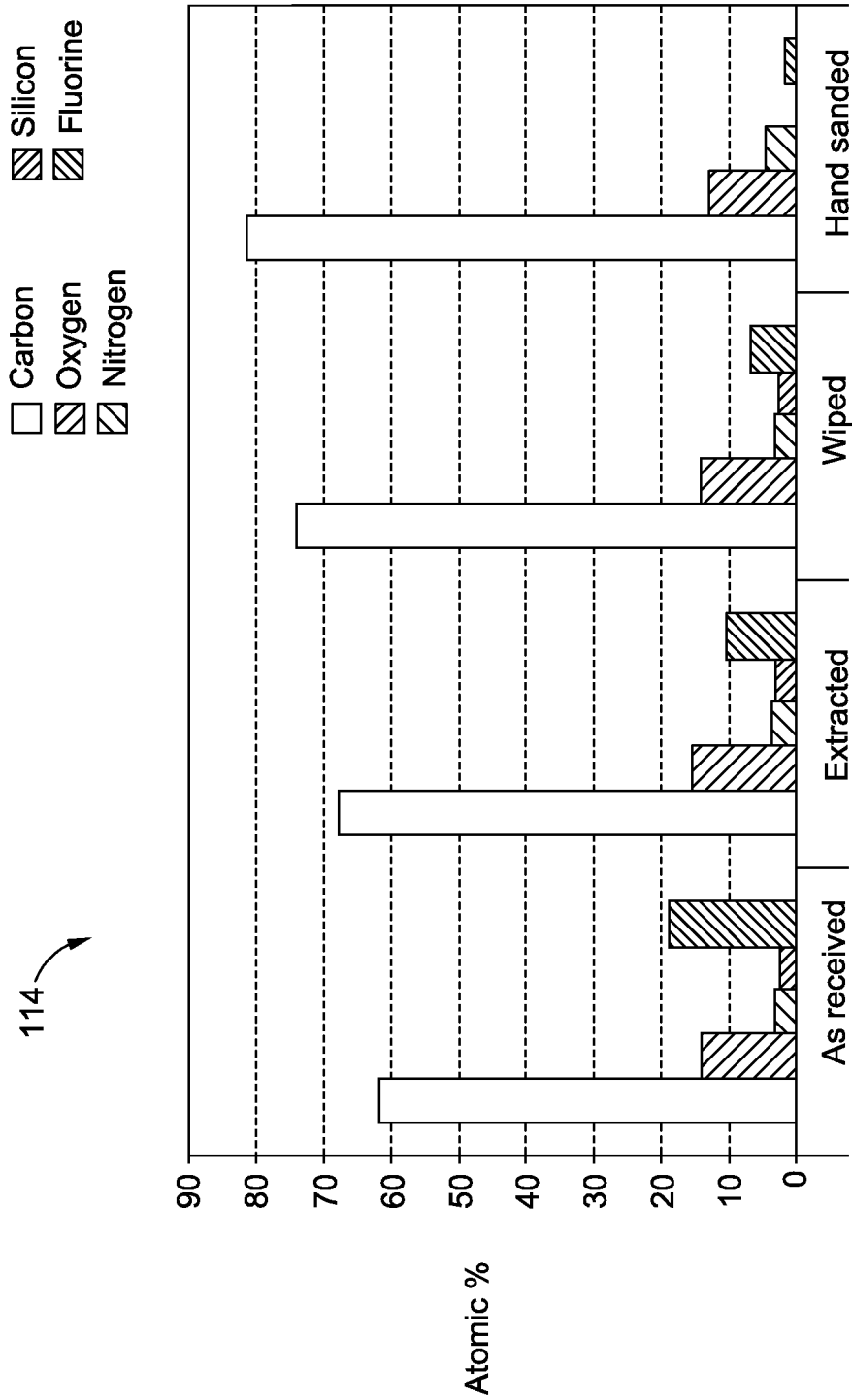


FIG. 10

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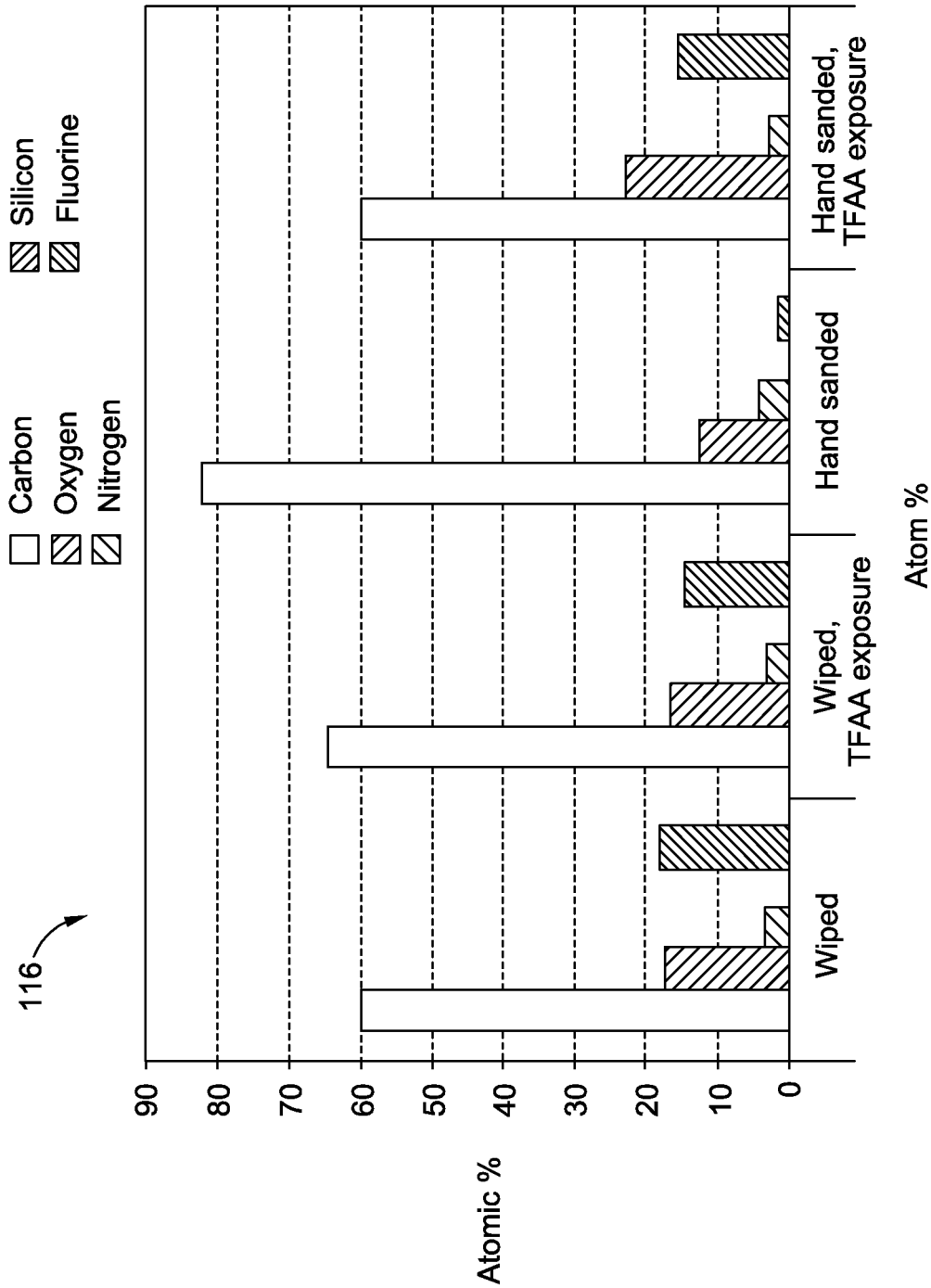


FIG. 11

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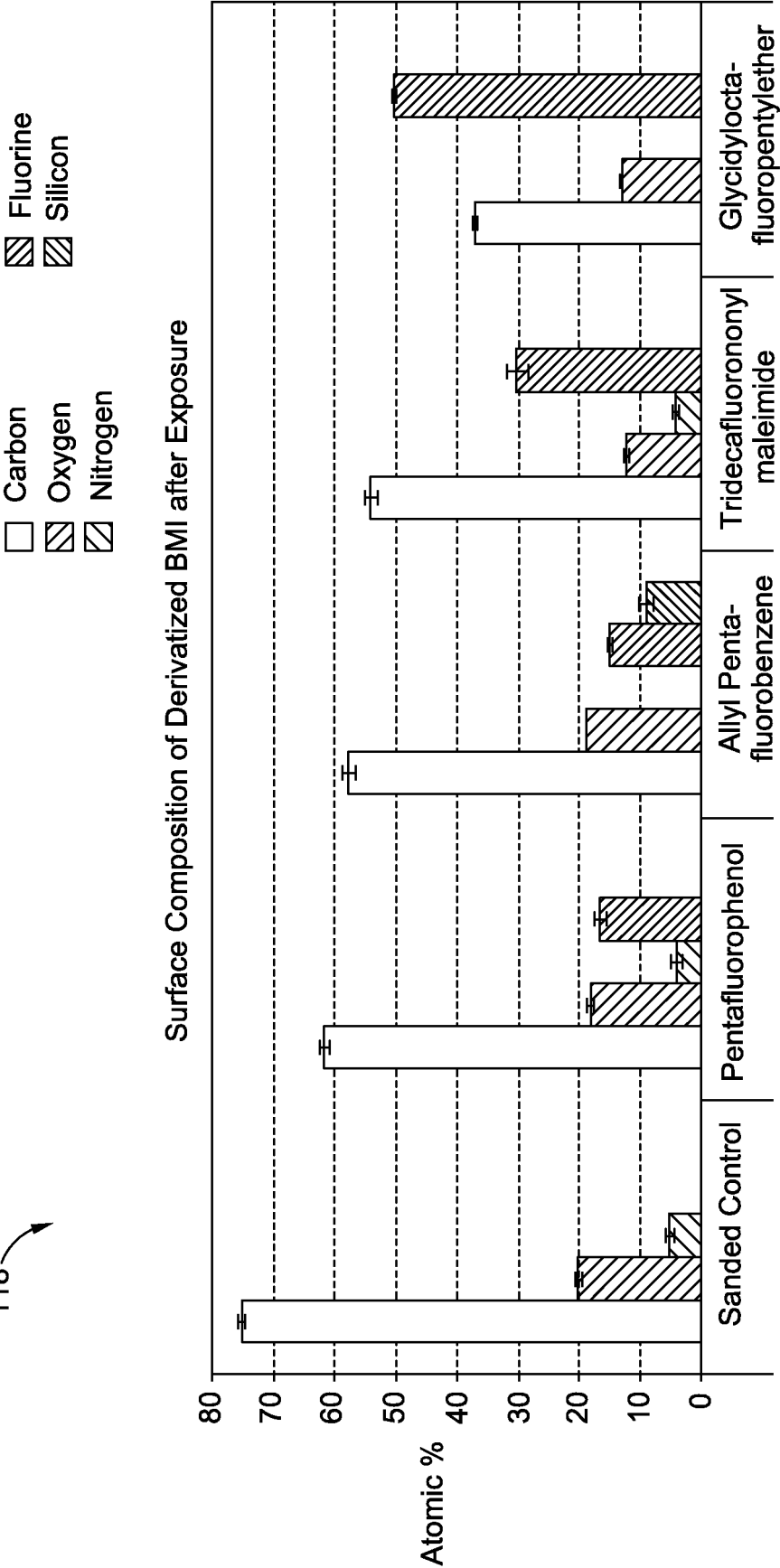


FIG. 12

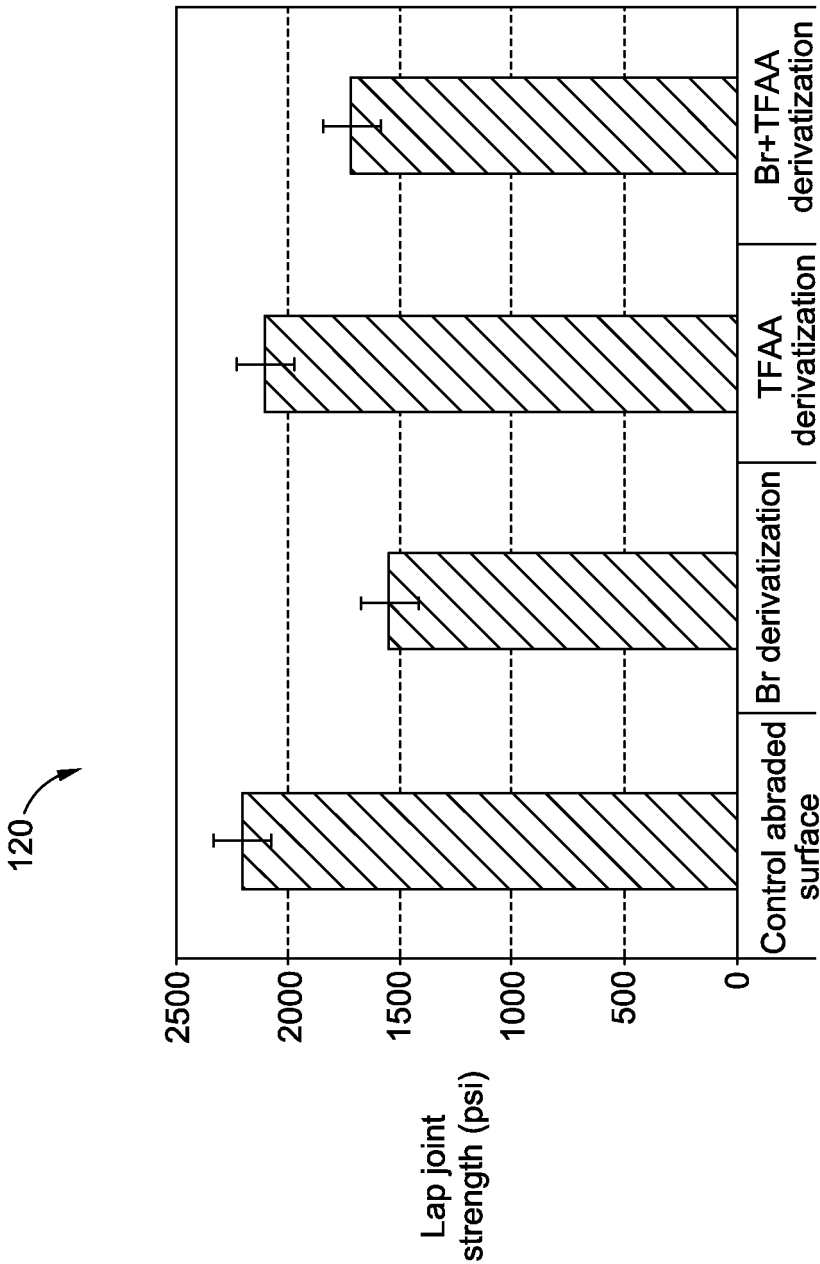


FIG. 13

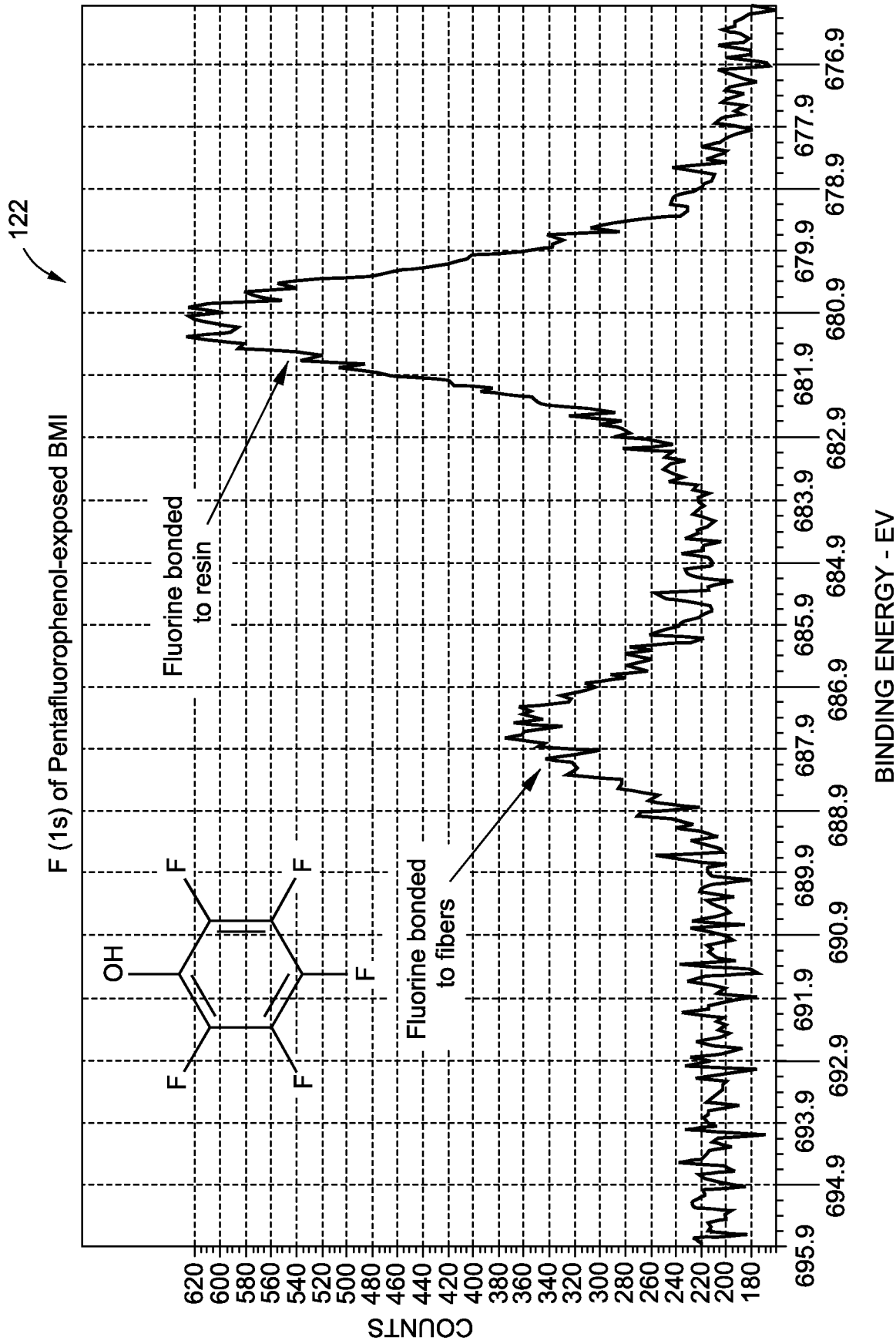


FIG. 14

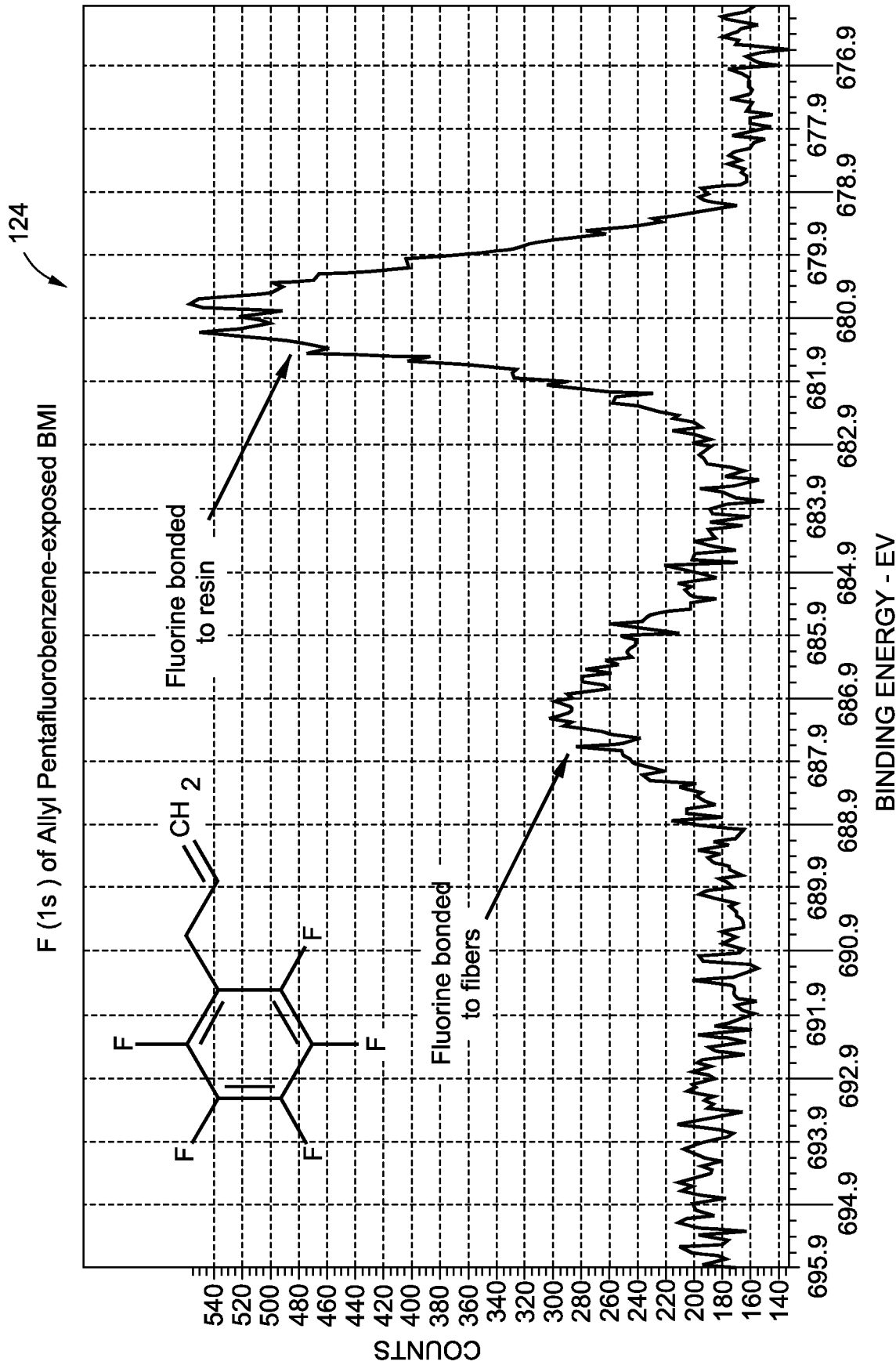


FIG. 15

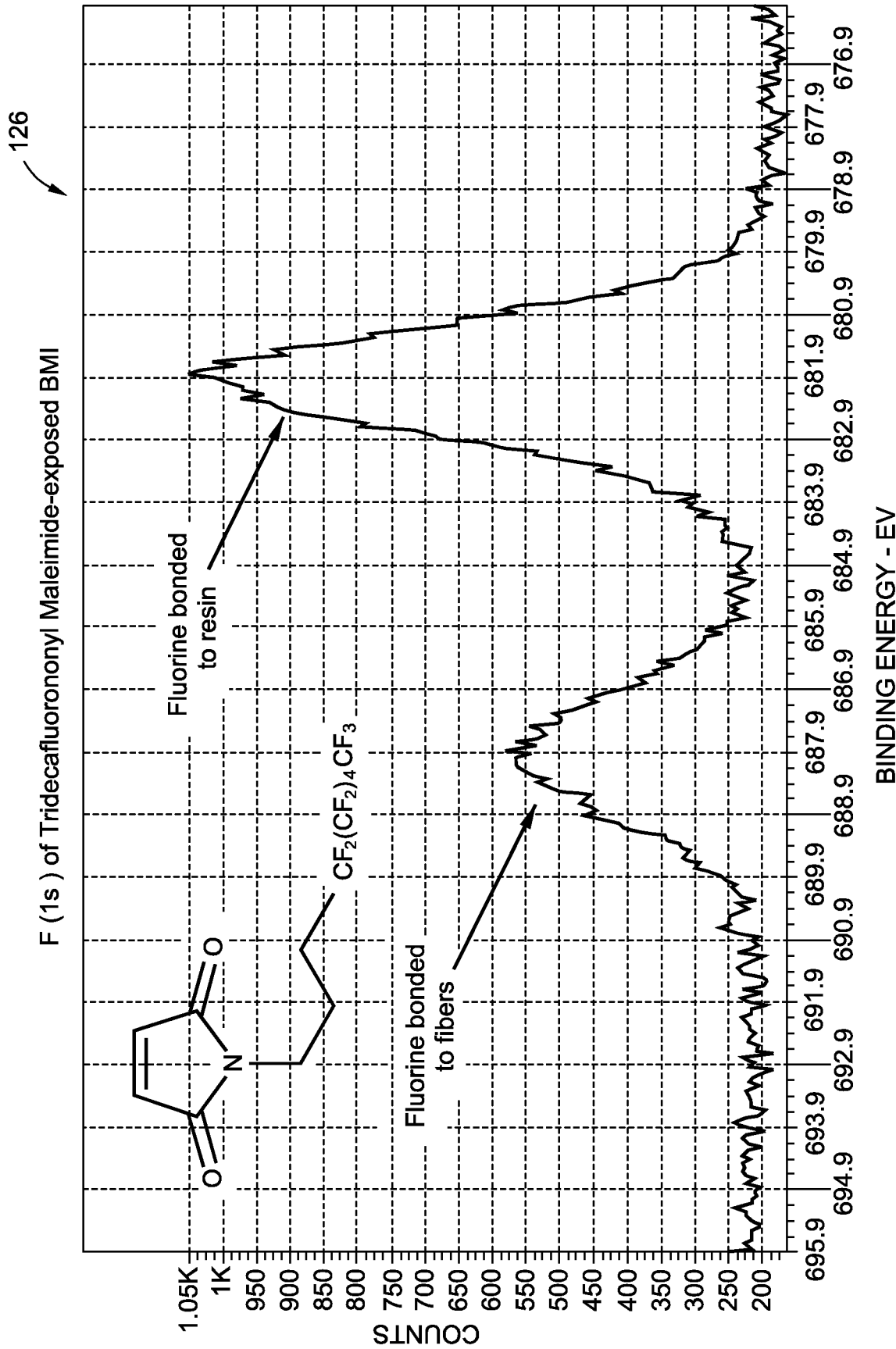


FIG. 16

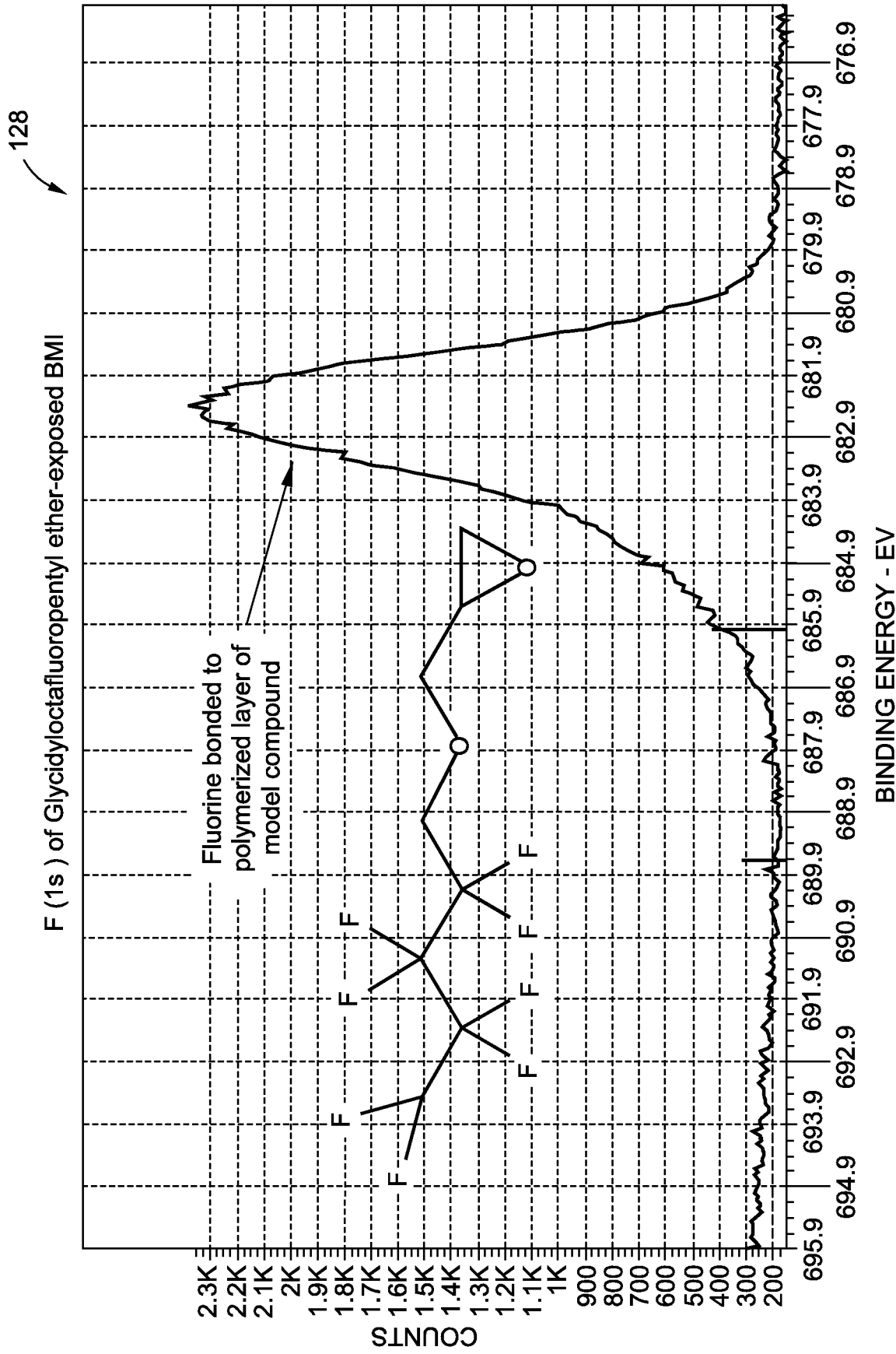
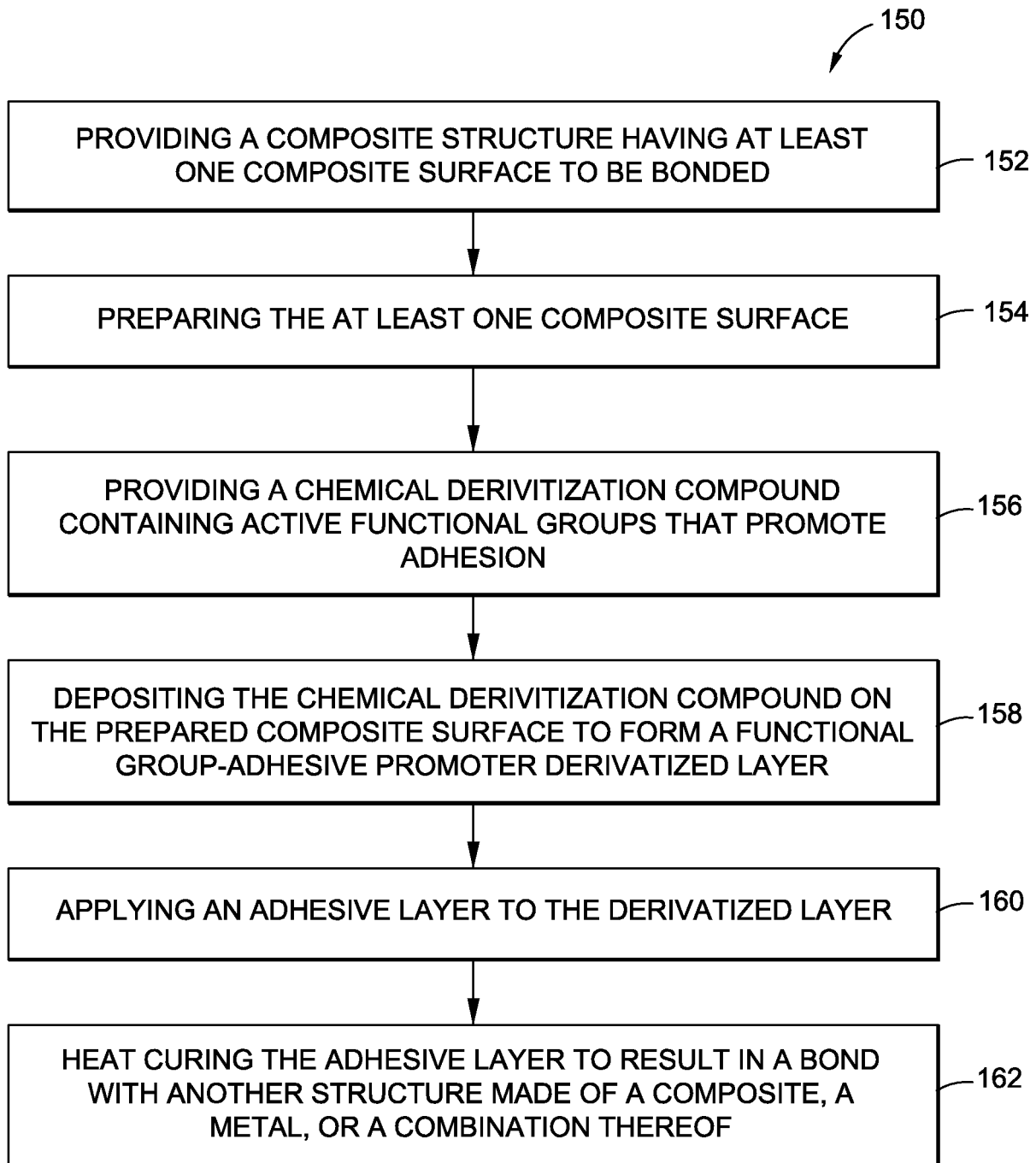
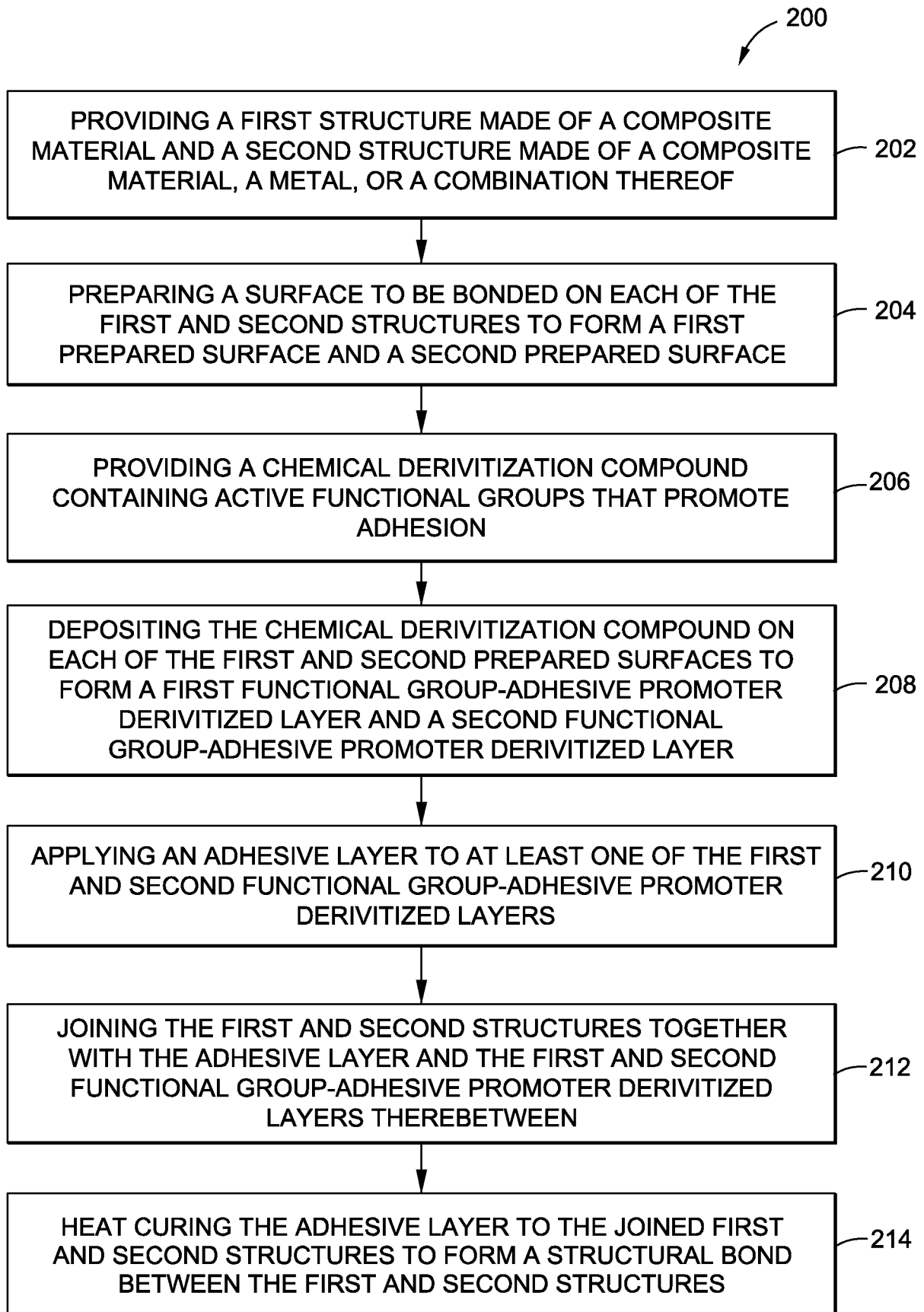


FIG. 17

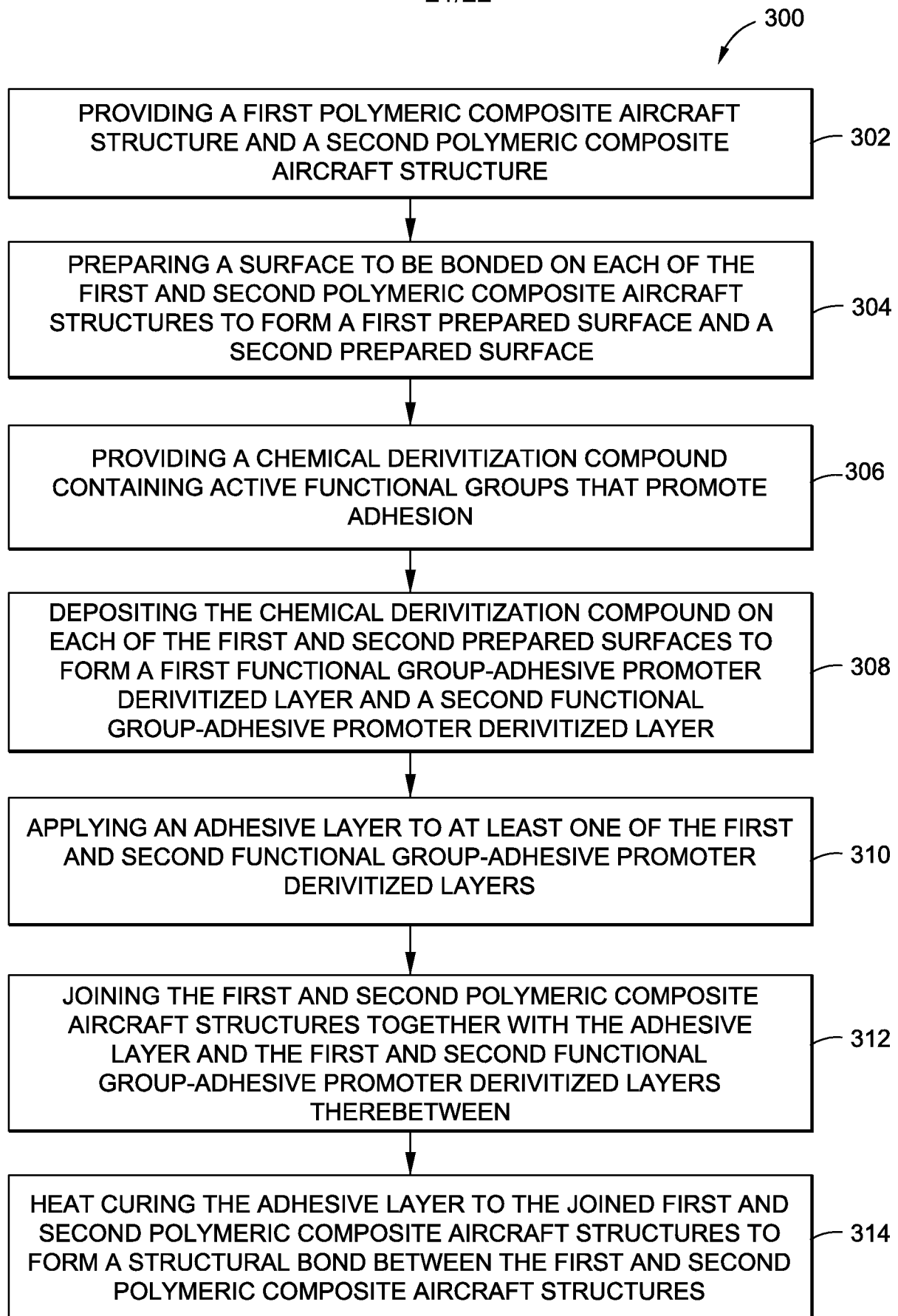
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**FIG. 18**

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**FIG. 19**

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**FIG. 20**

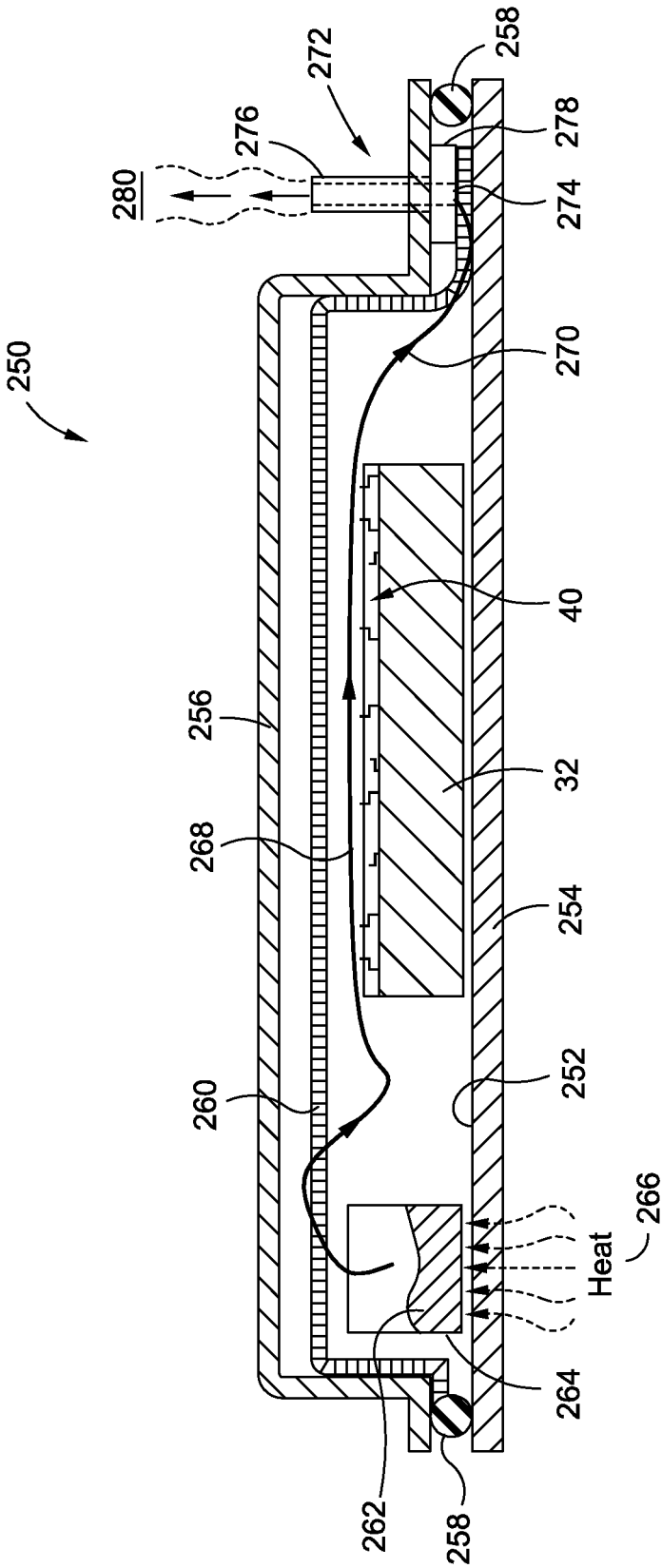


FIG. 21