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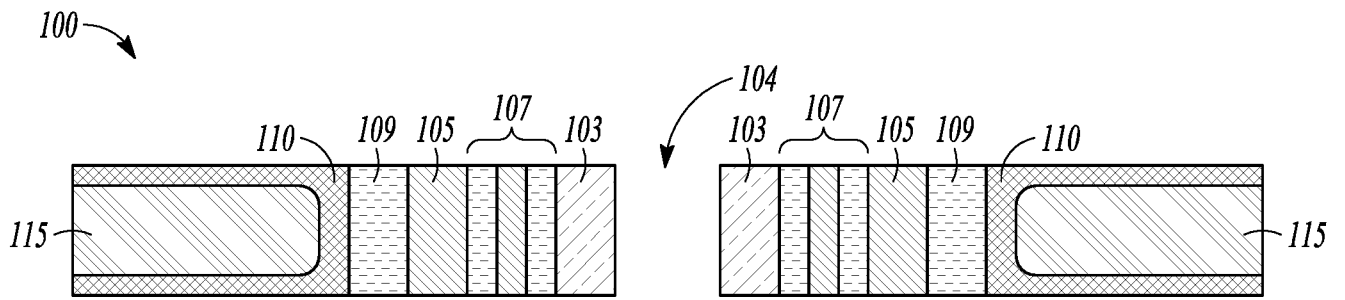


FIG. 1A

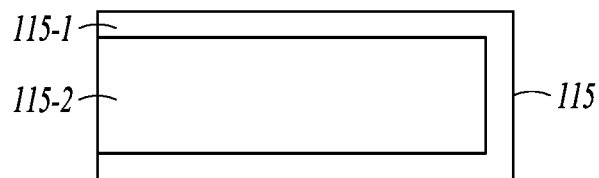


FIG. 1B

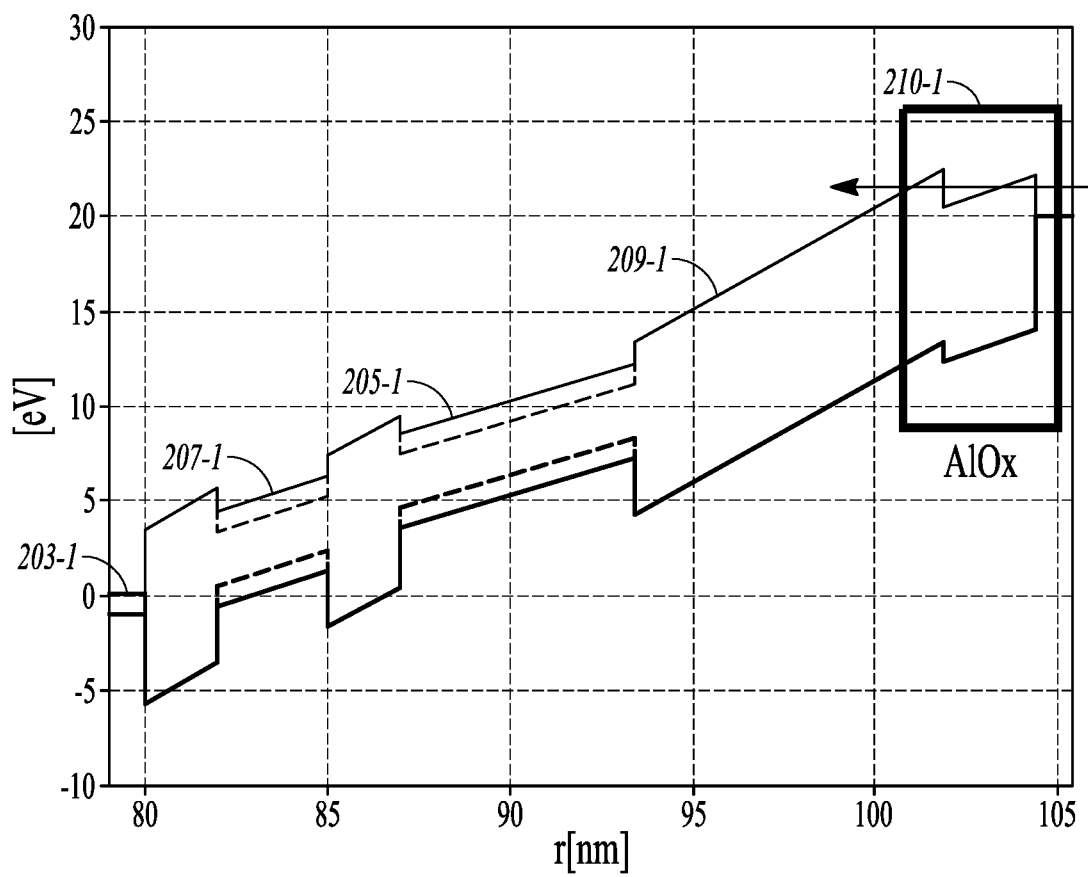
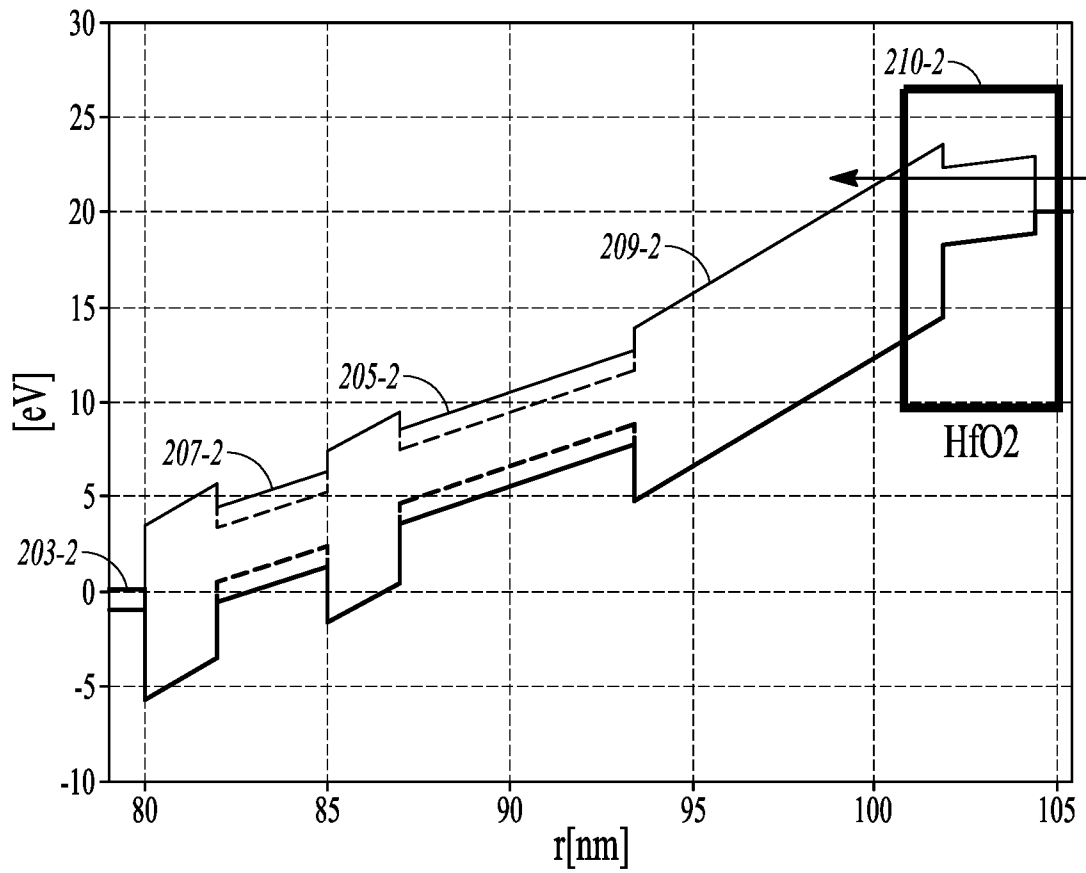


FIG. 2A

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**FIG. 2B**

	K	BAND GAP	X
SiO ₂	3.9	9.0	0.9
SiN	7.5	5.0	1.9
AlO _x	9.0	8.0	2.8
HfO ₂	20.0	4.0	2.1

FIG. 2C

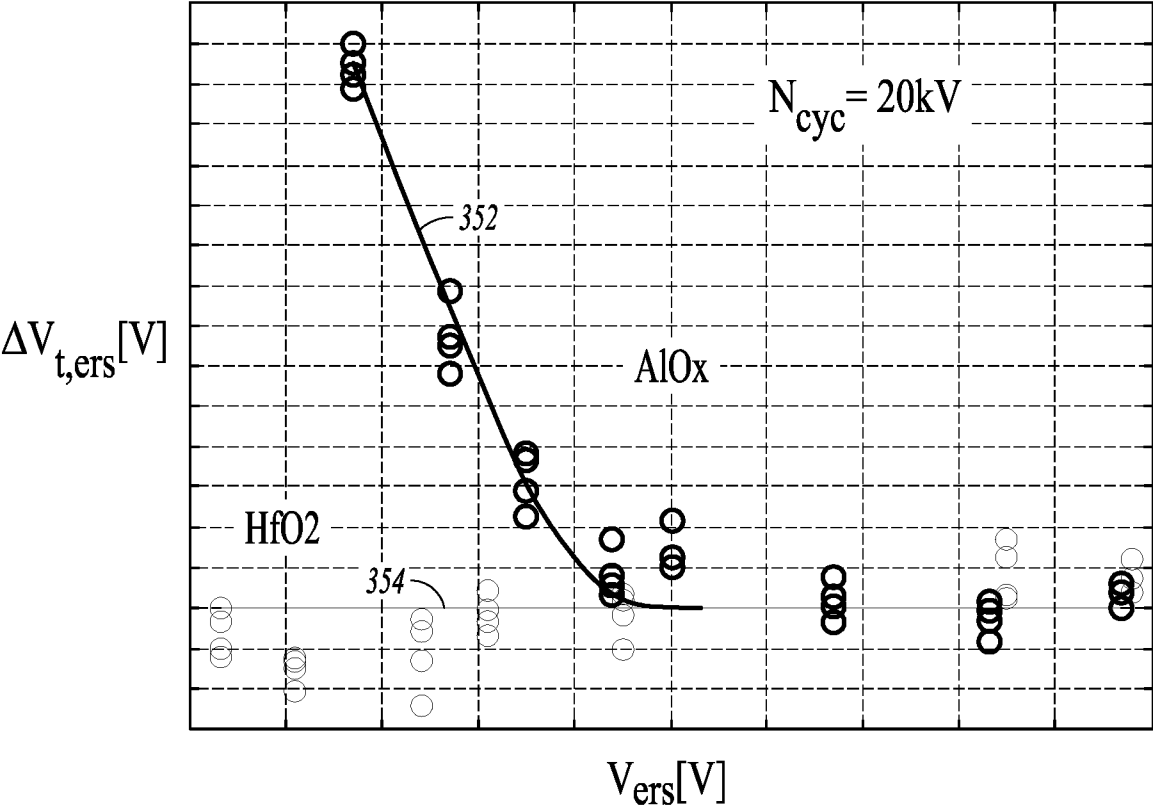


FIG. 3

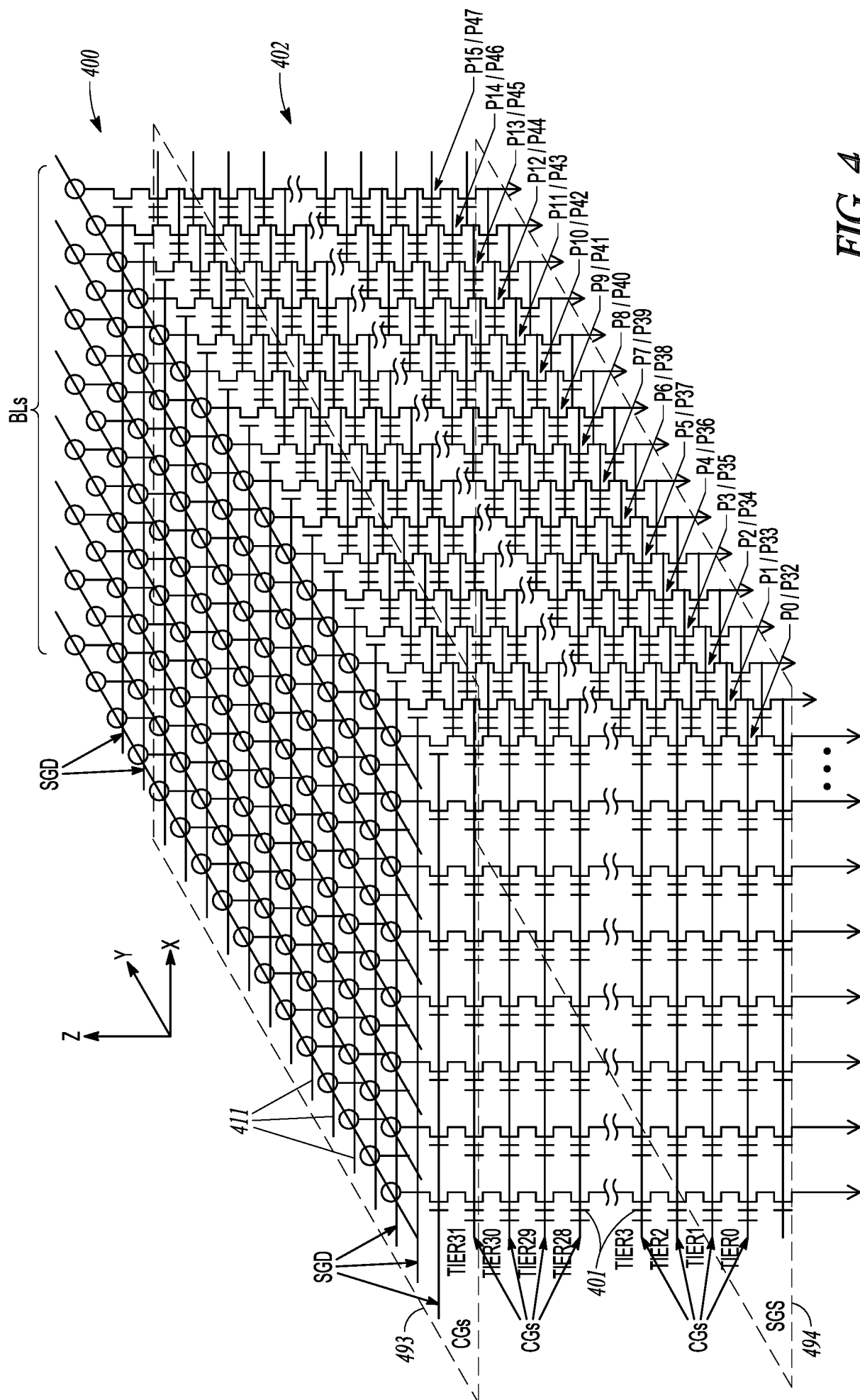
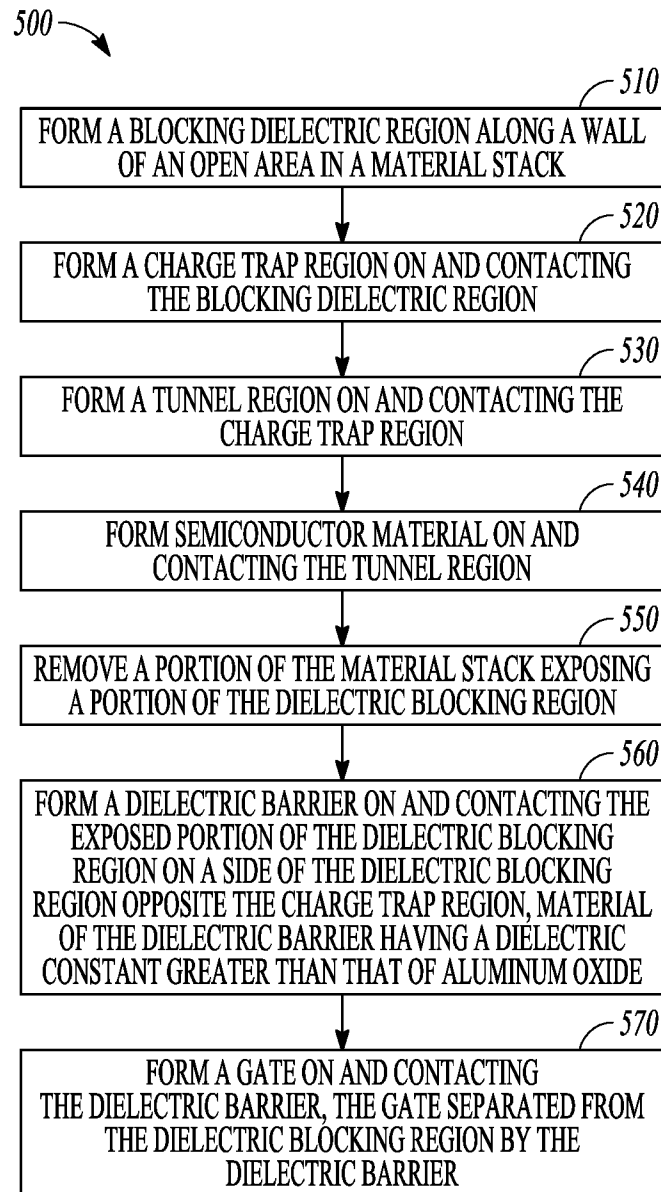
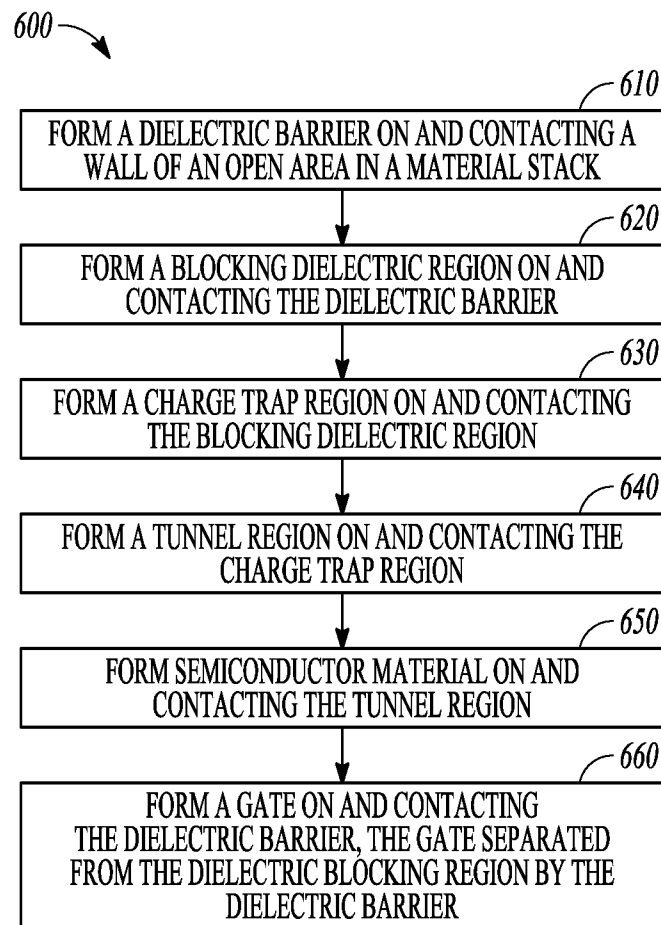


FIG. 4

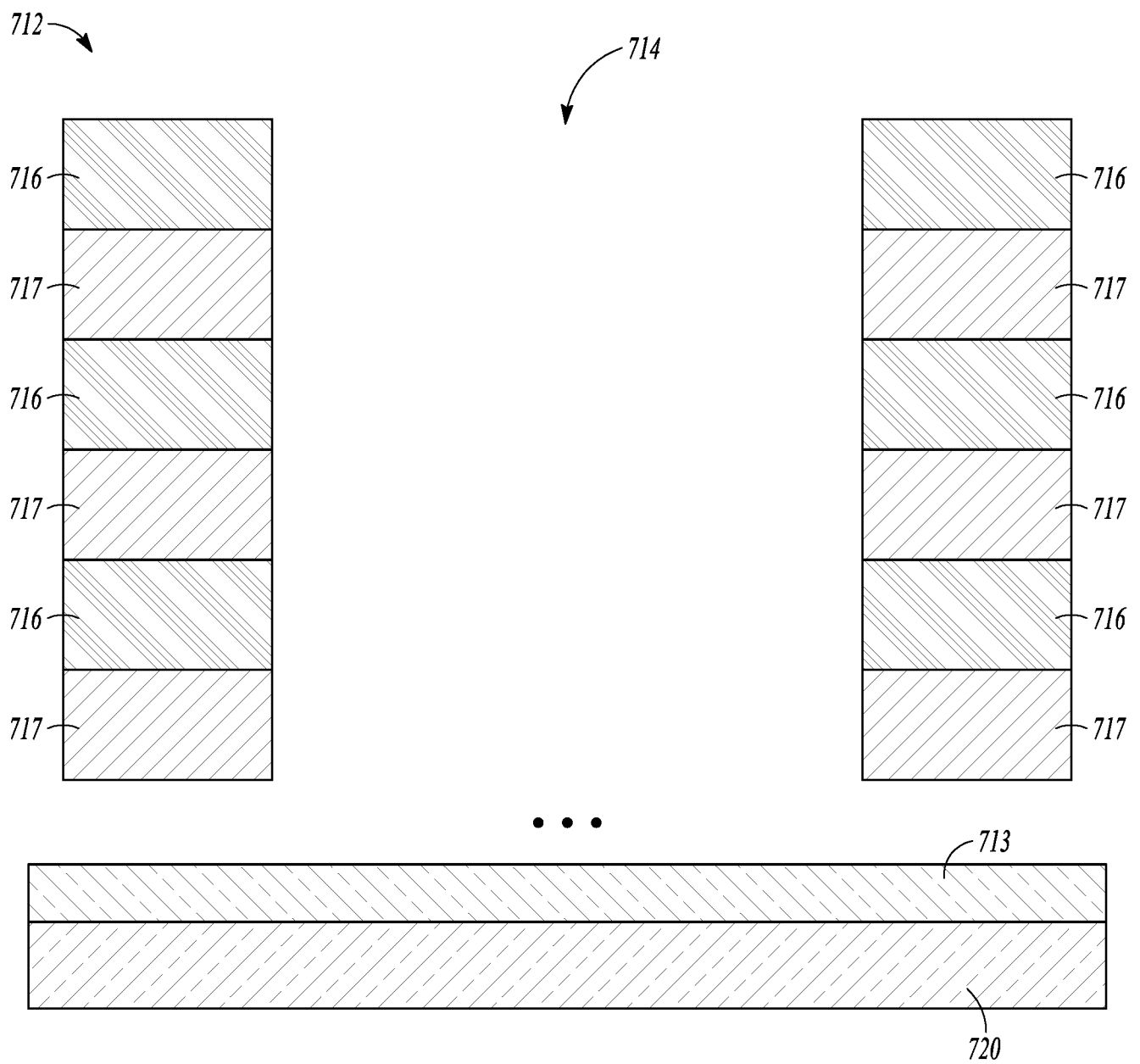
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**FIG. 5**

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**FIG. 6**

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**FIG. 7A**

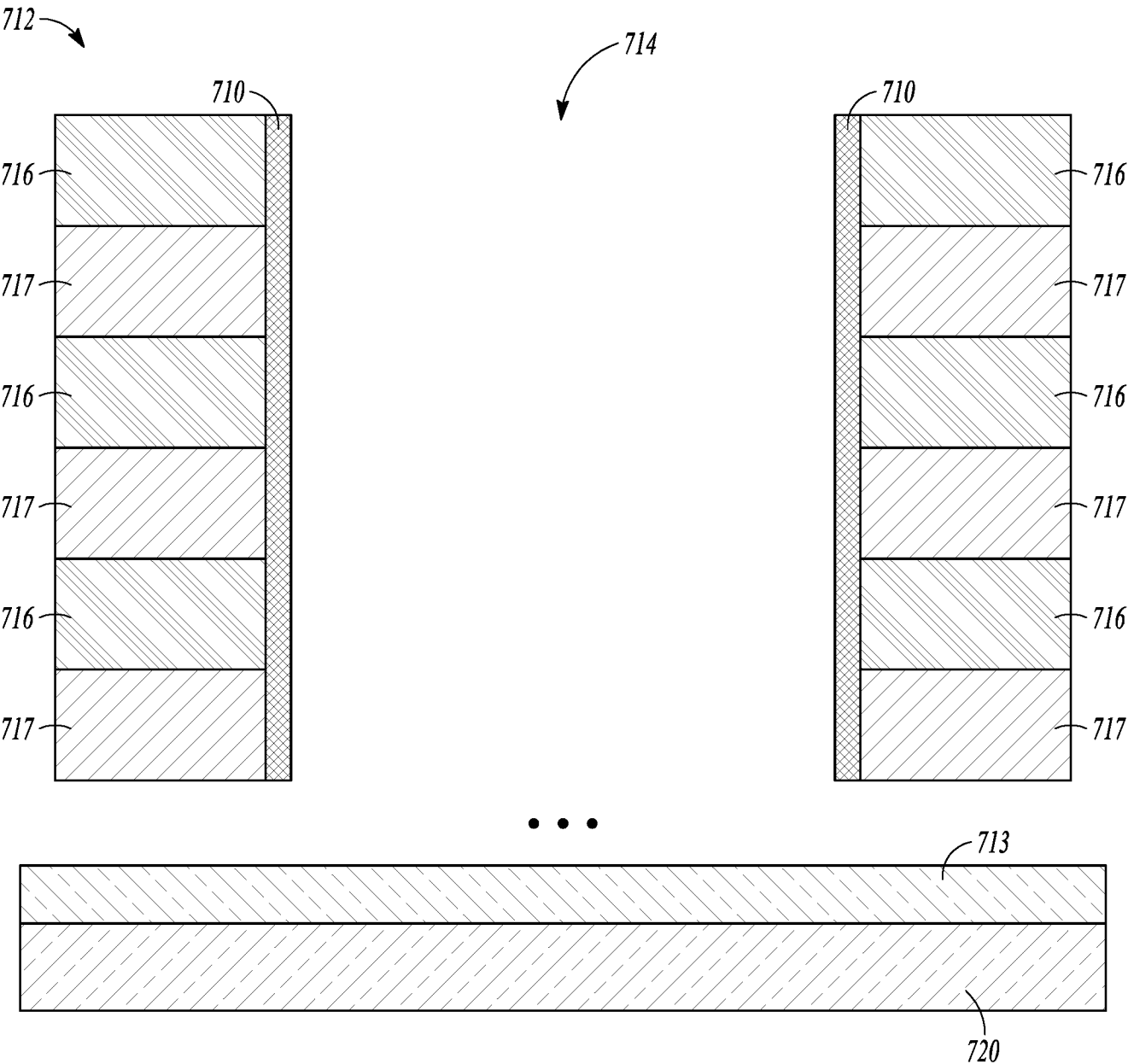


FIG. 7B

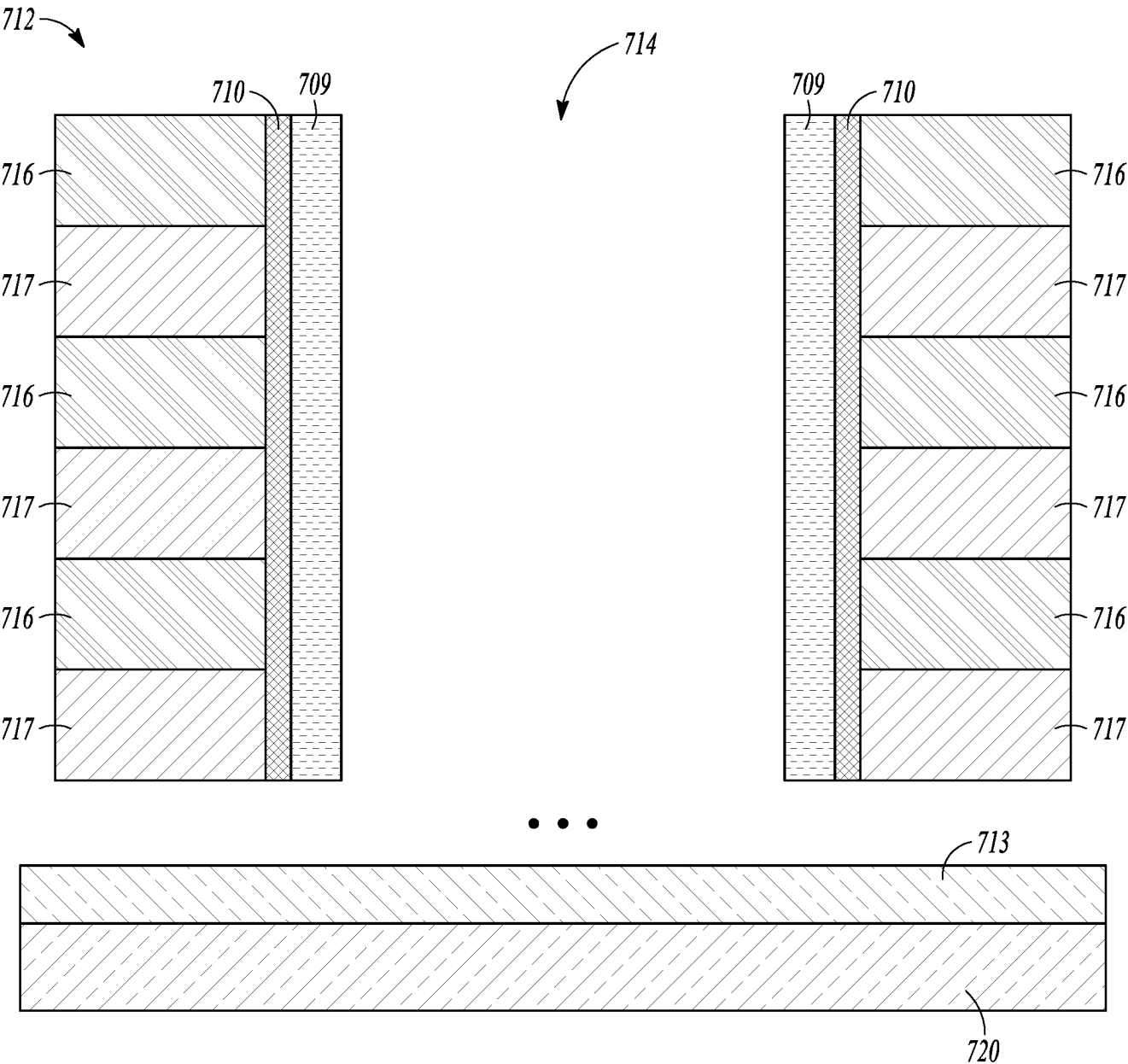


FIG. 7C

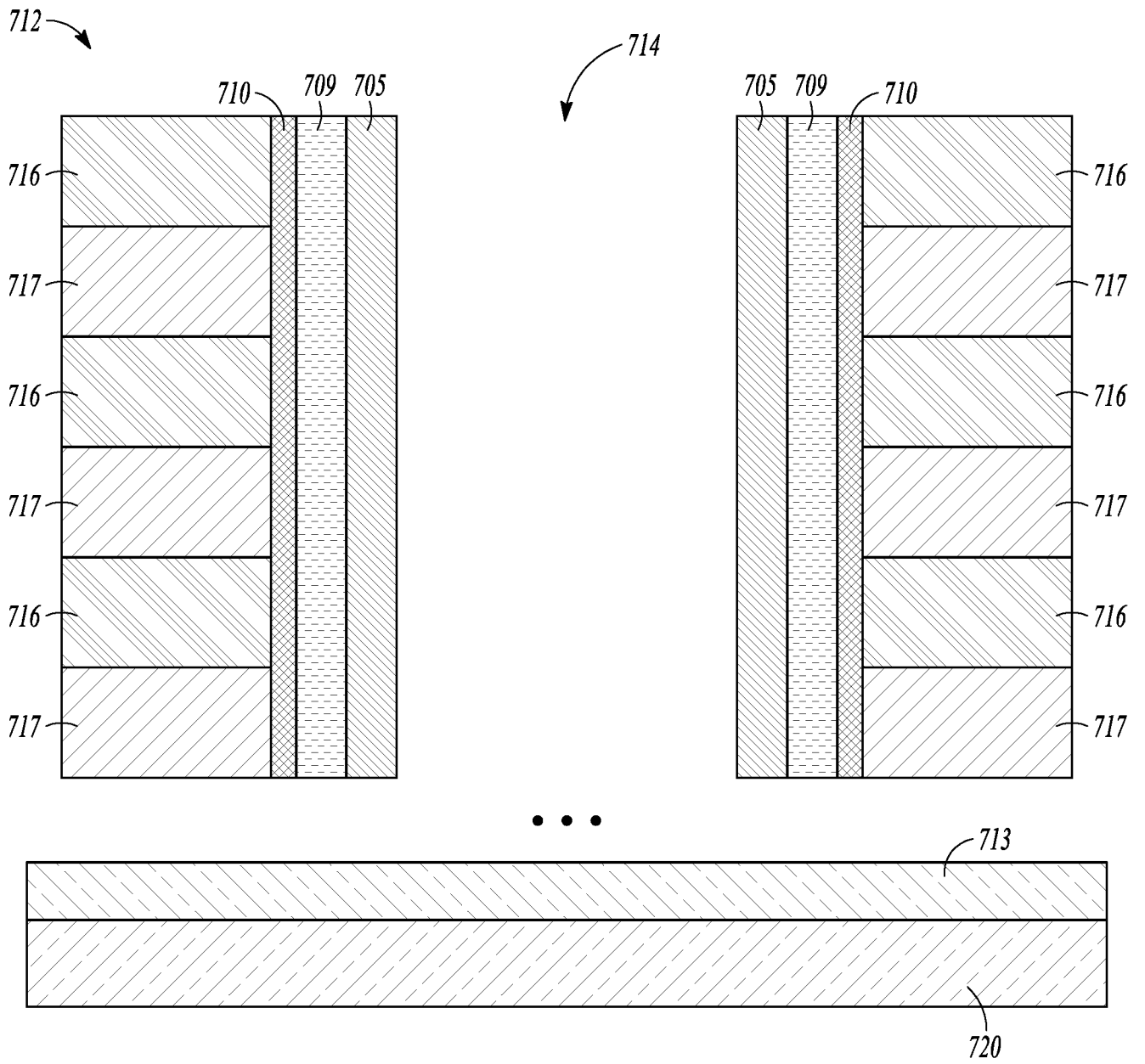


FIG. 7D

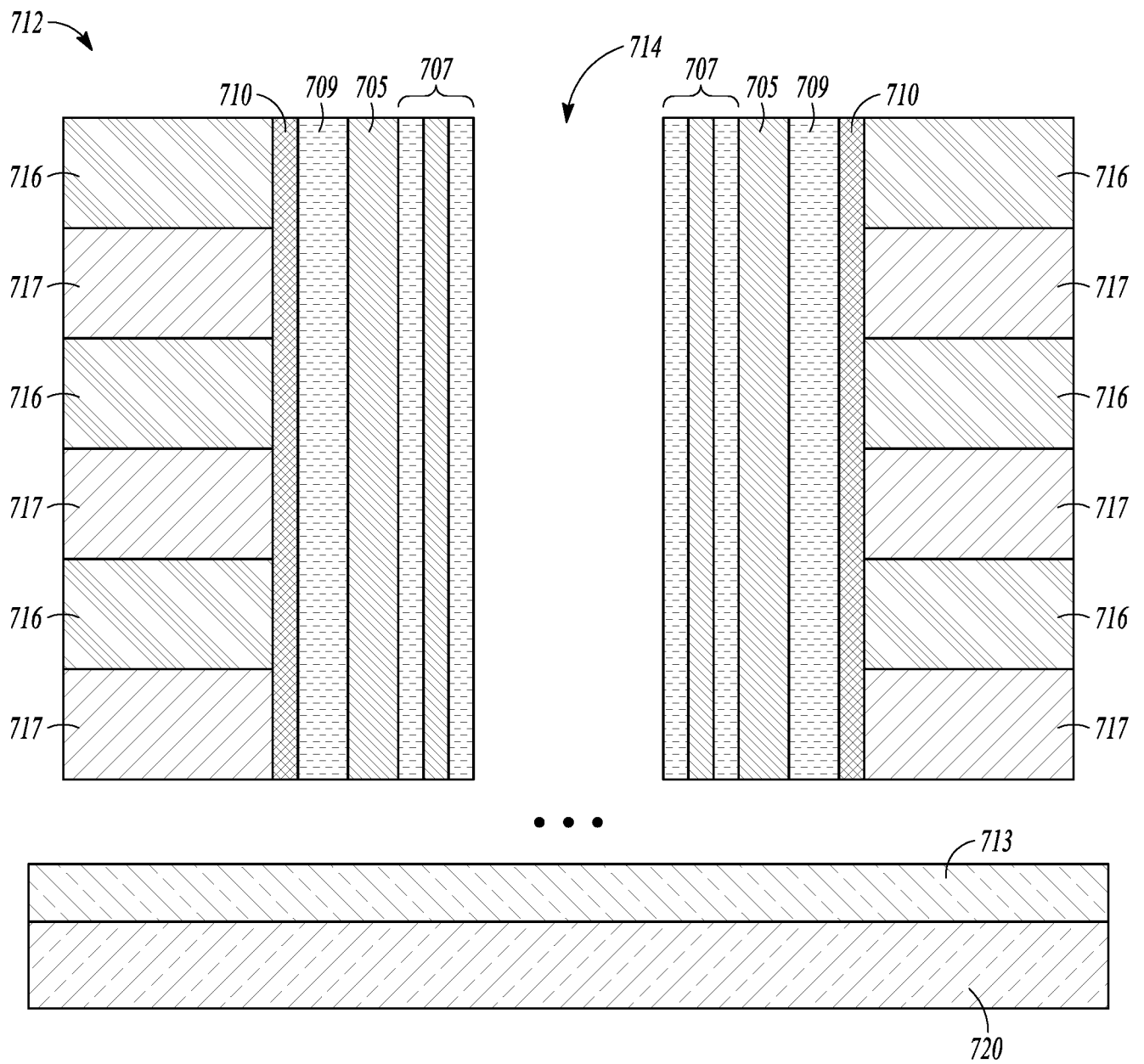
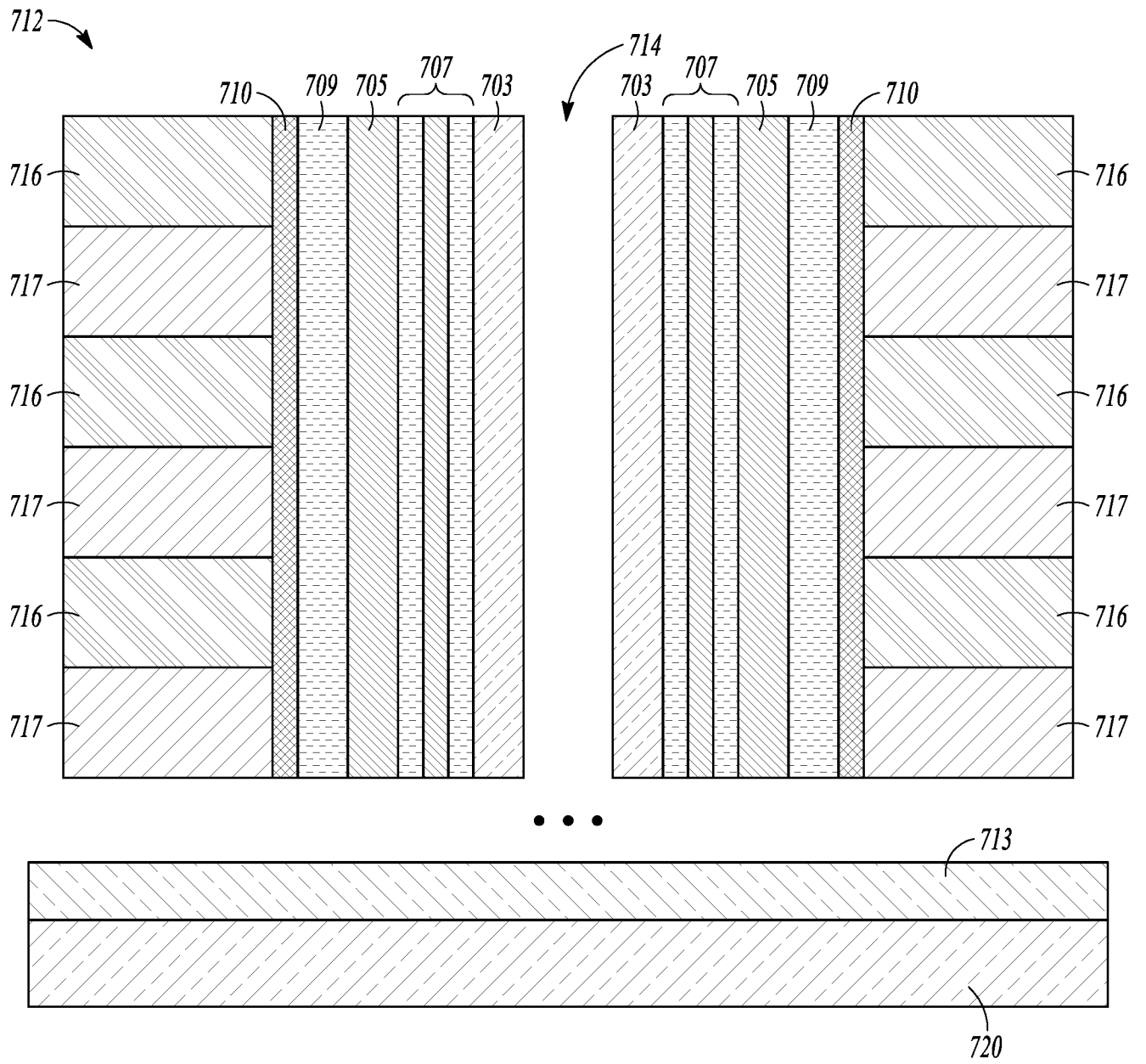
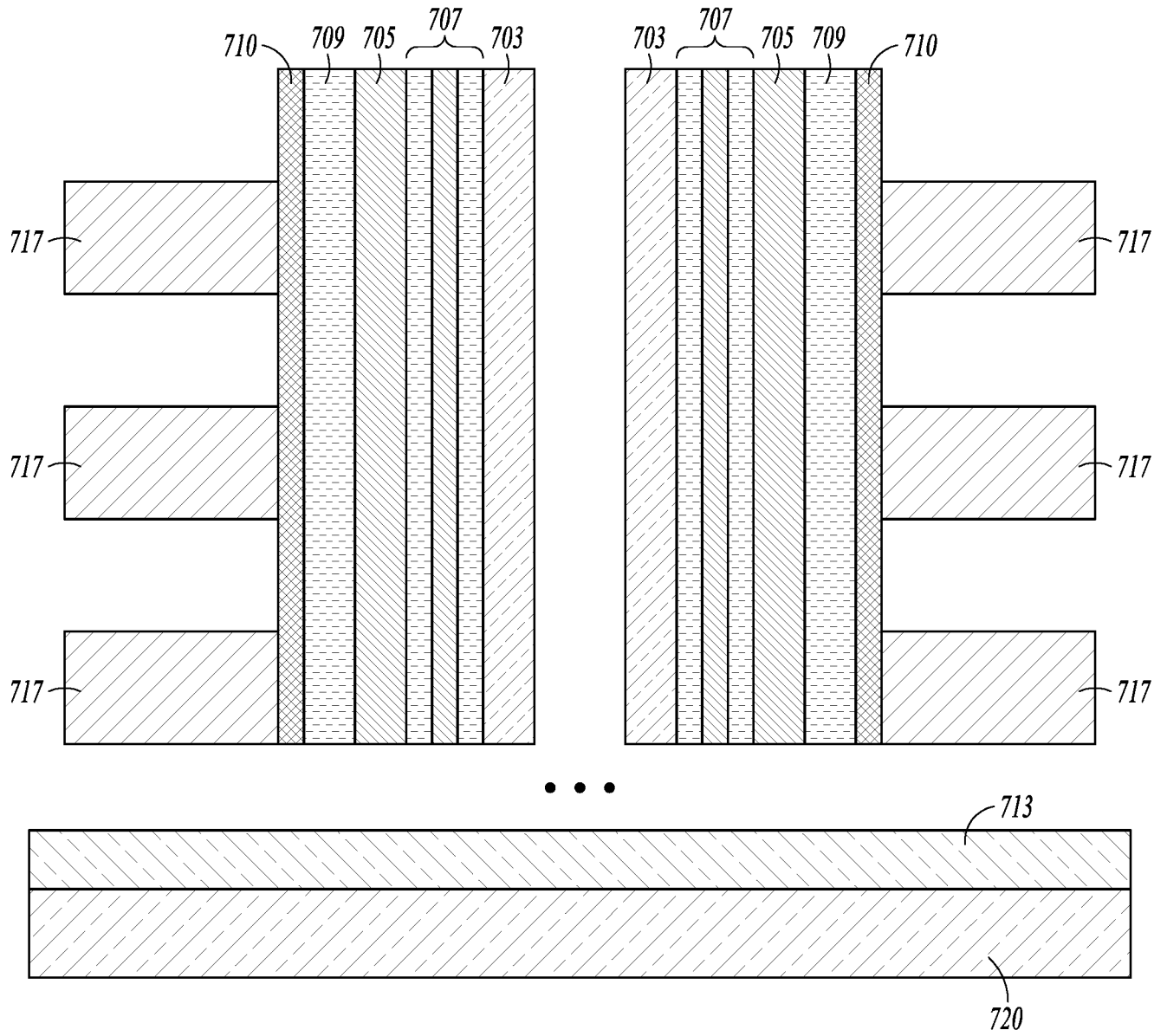


FIG. 7E

**FIG. 7F**

**FIG. 7G**

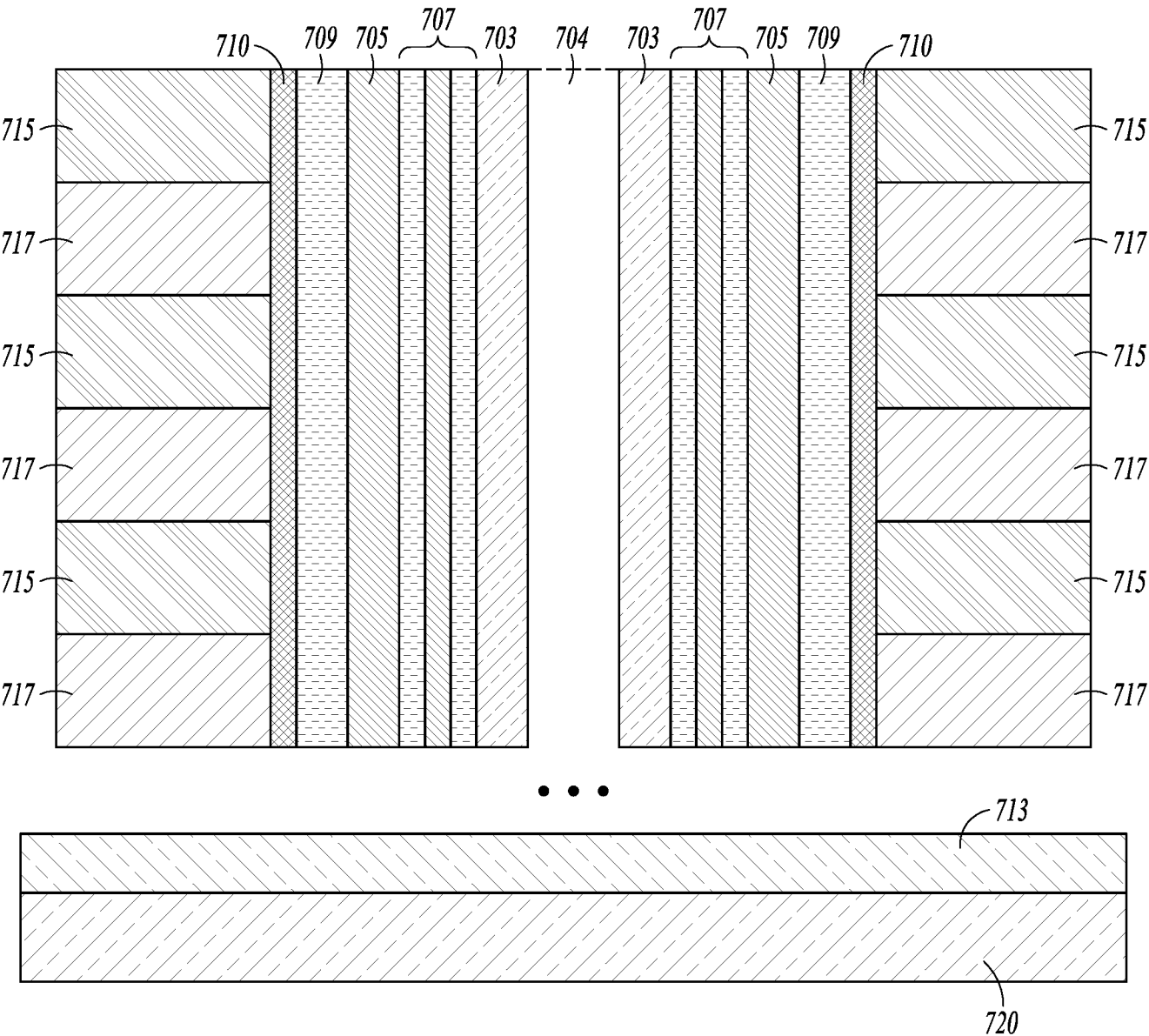
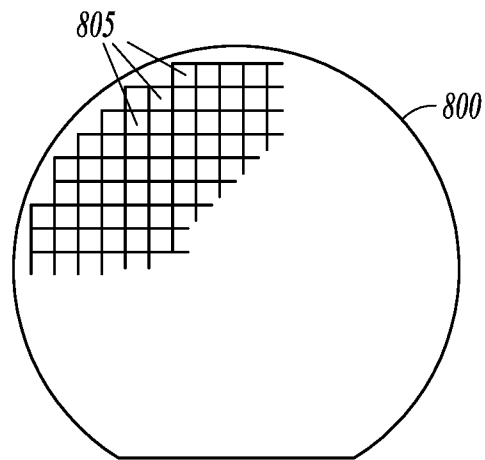
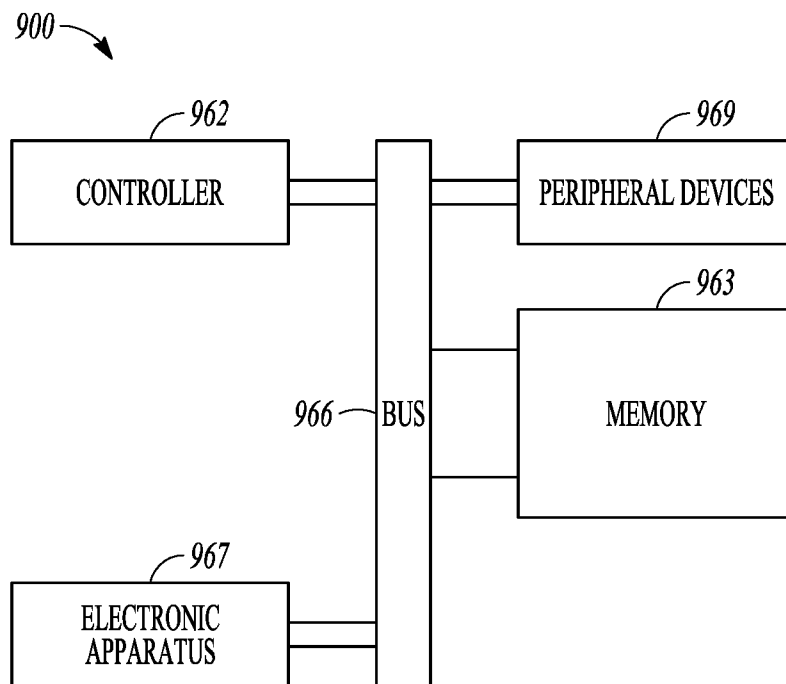


FIG. 7H

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*FIG. 8**FIG. 9*