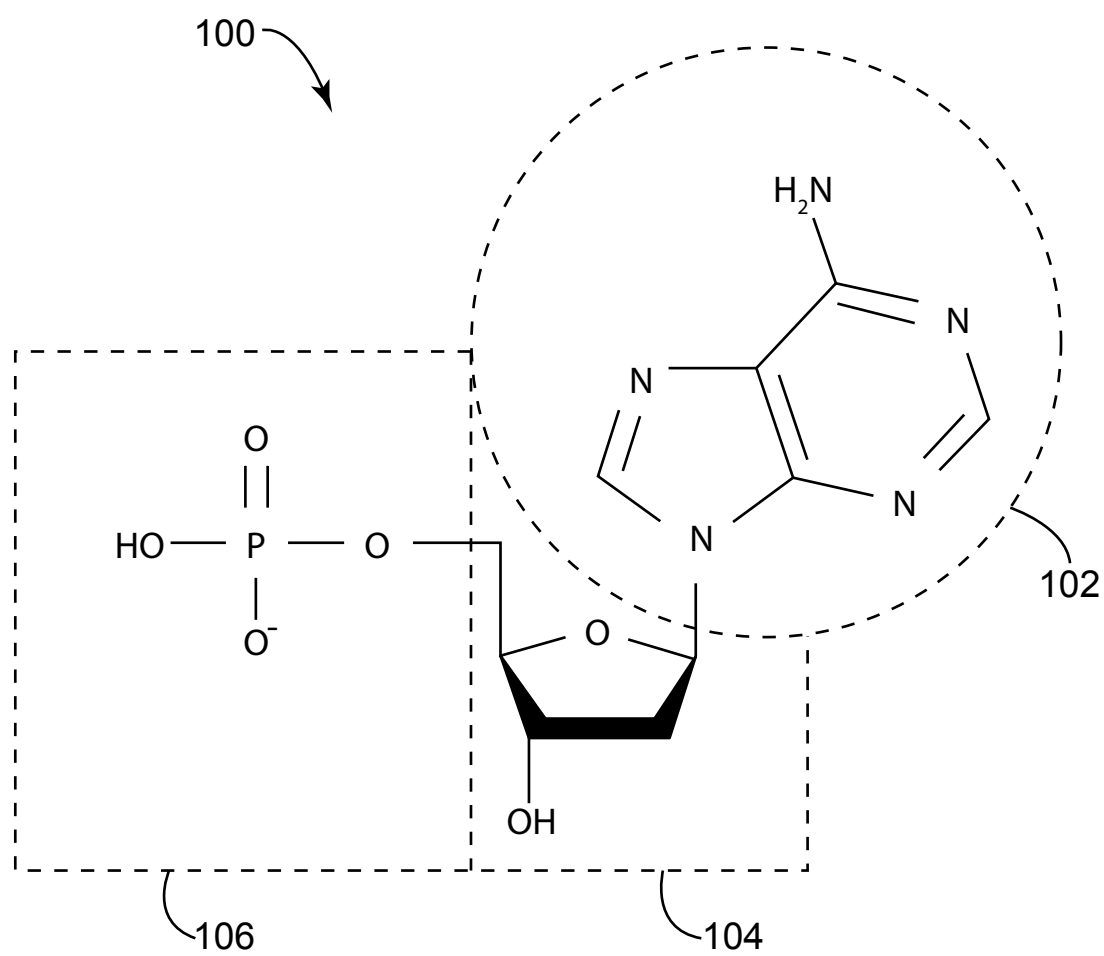
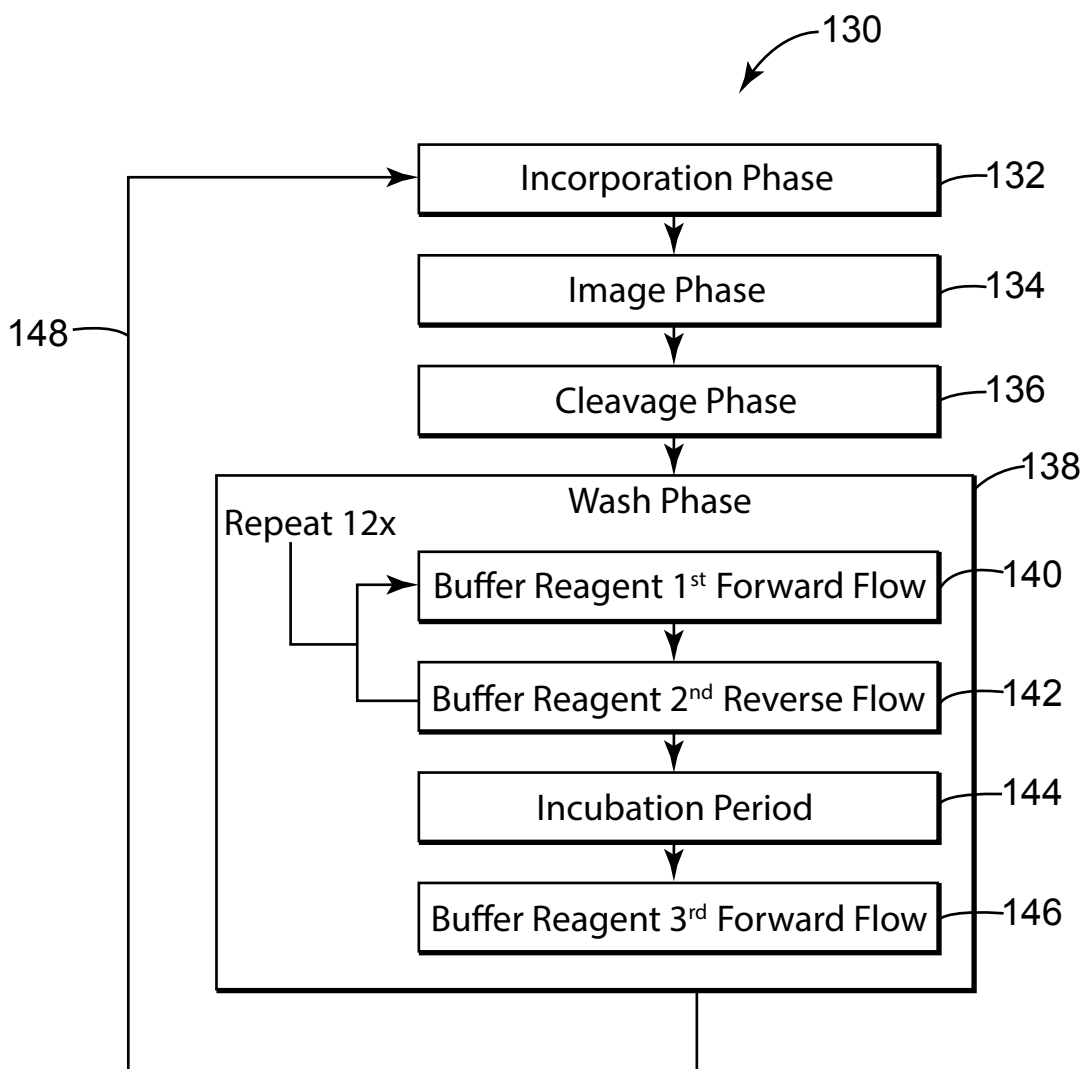


FIG. 1



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FIG. 3



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FIG. 4

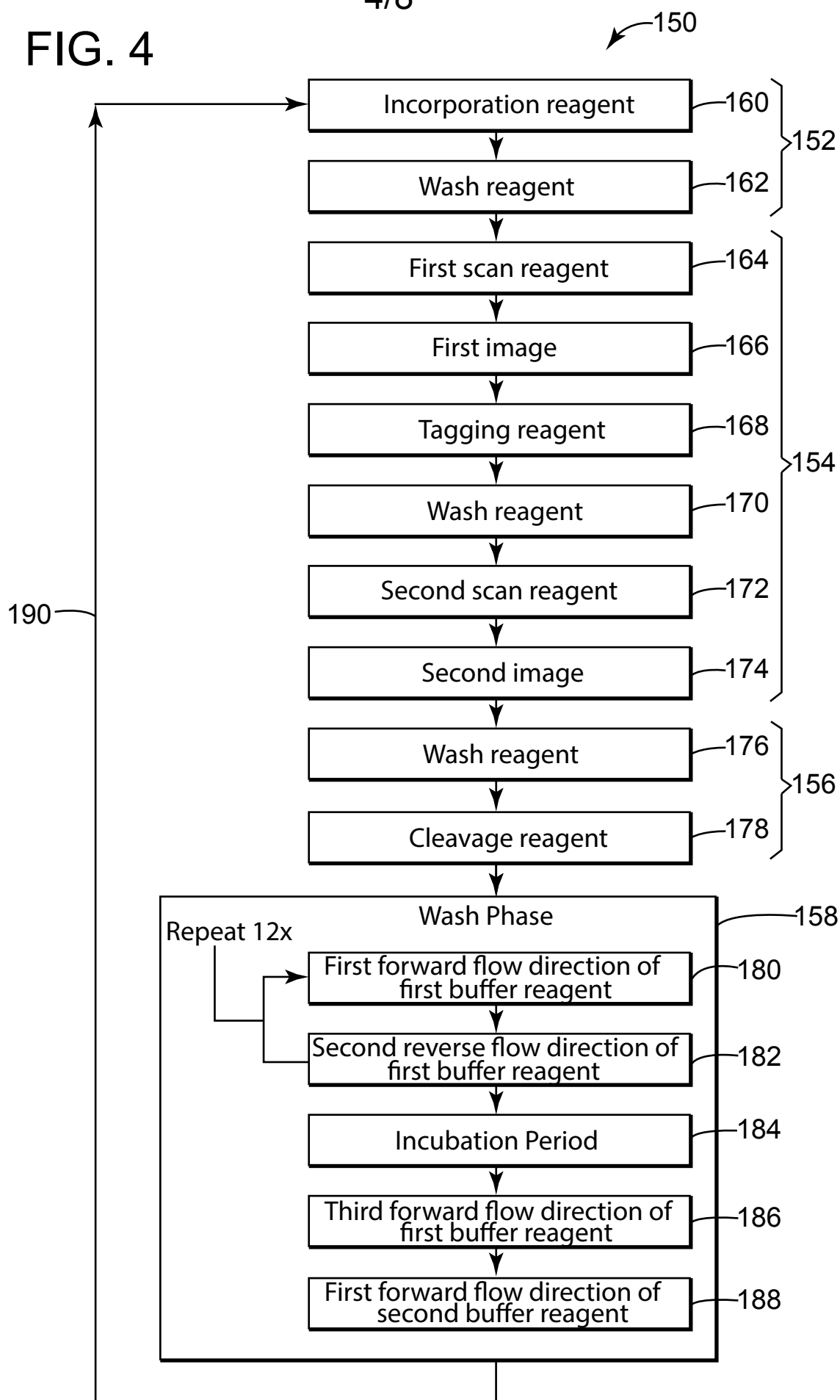


FIG. 5

Total Fluidic Consumption Held at 48 (μL)

190 

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$\frac{\text{Total Sweep Volume } (\mu\text{L})}{\text{Total Fluidic Consumption } (\mu\text{L})}$	Total Sweep Volume (μL)	First Forward Flow Volume (μL)	Second Reverse Flow Volume (μL)	# of Cycles	Third Forward Flow Volume (μL)	
$48/48 = 1$	48	0	0	0	48	—190-1
$100/48 = 2.08$	100	25	13	2	24	—190-2
$200/48 = 4.16$	200	25	19	4	24	—190-3
$300/48 = 6.25$	300	25	21	6	24	—190-4
$444/48 = 9.25$	444	25	22	9	21	—190-5
$600/48 = 12.5$	600	25	23	12	24	—190-6
$1200/48 = 25$	1200	25	24	24	24	—190-7

FIG. 6

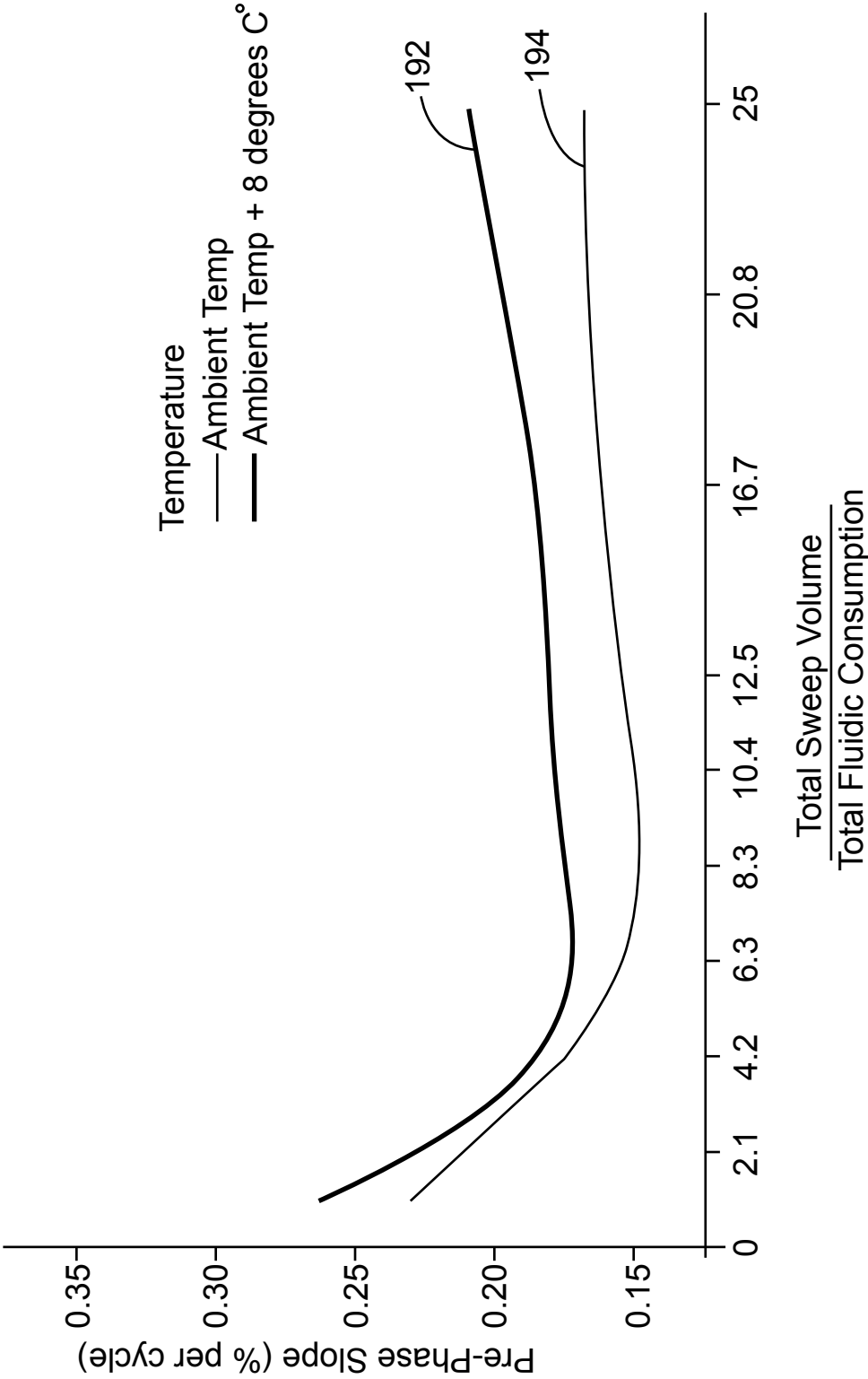
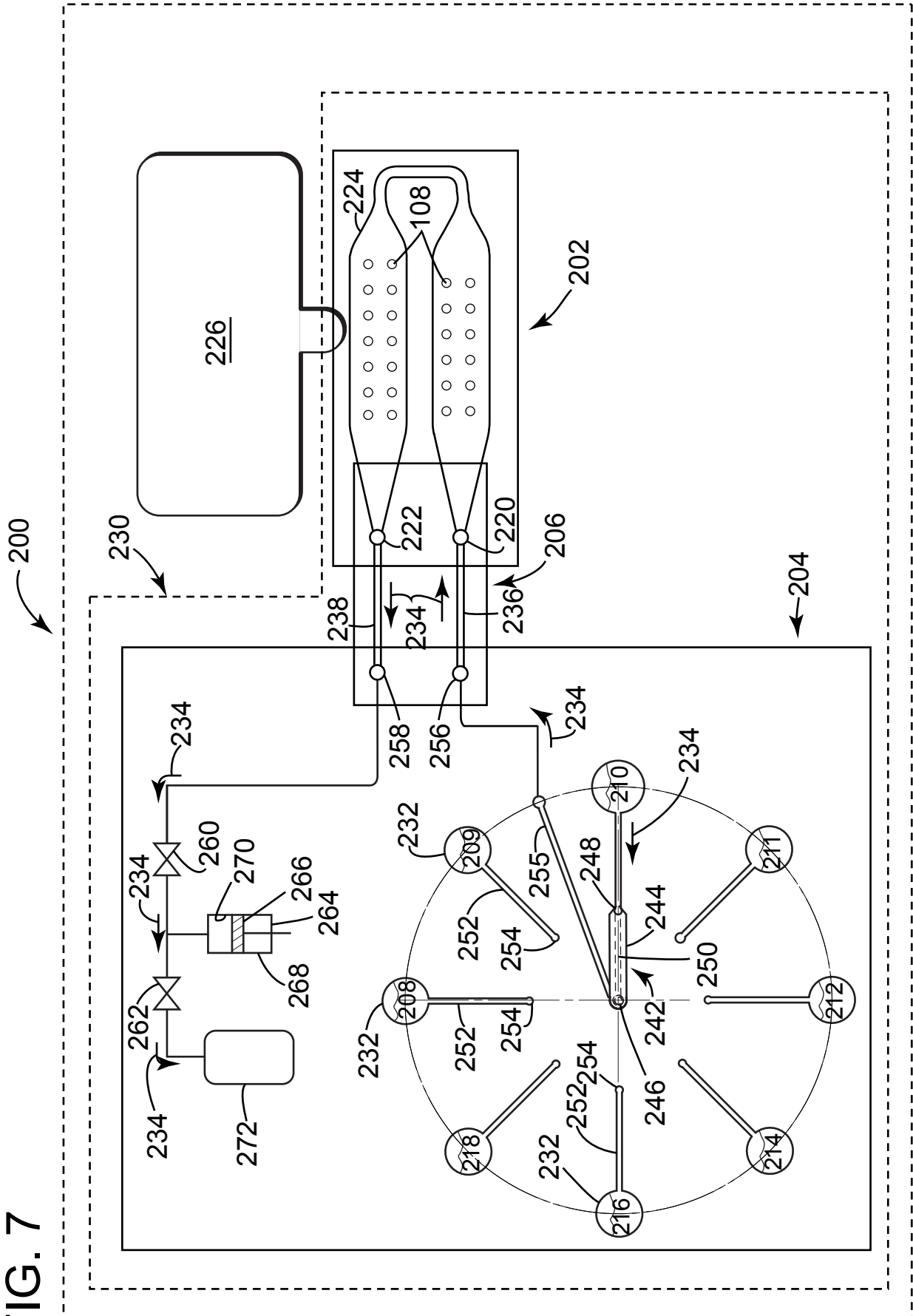


FIG. 7



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FIG. 8

