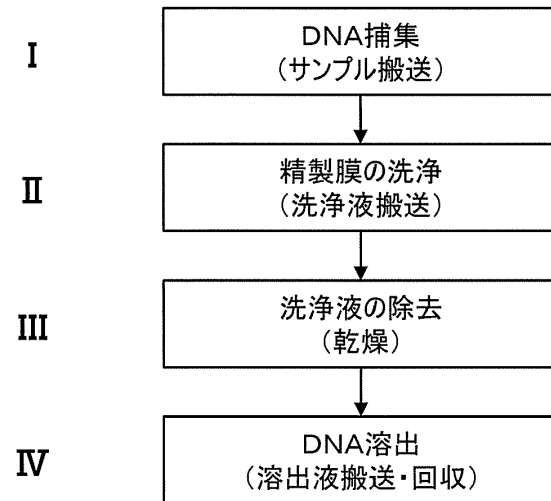


[図1]

図 1



[図2A]

図 2 A

サンプル溶液	
組成	分量
2800MコントロールDNA (0.25 ng/μL)	16 μL
*AL バッファ (溶解バッファ)	320 μL
*ATL バッファ (カオトロープバッファ)	320 μL
*プロテイナーゼ K	16 μL
*キャリア RNA (1 μg/μL)	1 μL
100% エタノール※溶解後に追加	160 μL
合計	833 μL

*QIAamp DNA検査キットにおける項目

[図2B]

図 2 B

#	溶液 (順次メンブレンに対して適用)	分量	機材設定	
			ラボ方式 (スピнкаラムおよび遠心機)	本開示提案の方式 (チップデバイスおよびポンプ)
1	サンプルバッファ	833 μL	1000 g × 1 分	4 mL/分 (*1)
2	*AW1 バッファ (洗浄バッファ: カオトロープ+エタノール)	500 μL	1000 g × 1 分	4 mL/分 (*2)
3	*AW2 バッファ (洗浄バッファ: 70% エタノール+ 添加剤)	700 μL	1000 g × 1 分	4 mL/分 (*2)
4	100% エタノール(洗浄バッファ)	700 μL	1000 g × 1 分	4 mL/分 (*2)
5	乾燥空気	-	20000 g × 3 分 + 室温で10分	送気 × 3 分 (送気圧: 100 kPa)
6	*ATE バッファ (溶液バッファ)	20 μL	20000 g × 1 分	2 mL/分 (*2)

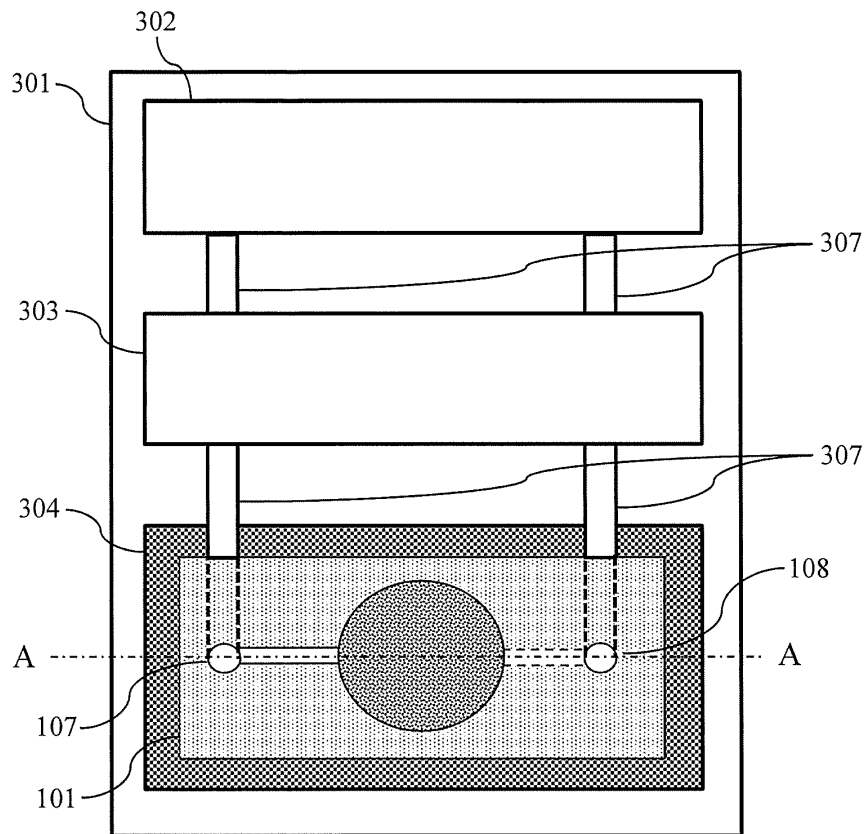
*QIAamp DNA検査キットにおける項目

(*1)メンブレンの残溶液が少量になるまでポンプで送液

(*2)溶液が完全排出されるまでポンプで排出

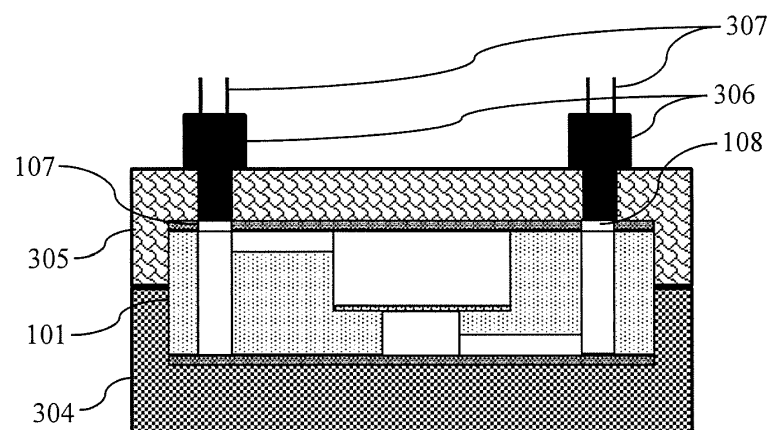
[図3A]

図 3 A



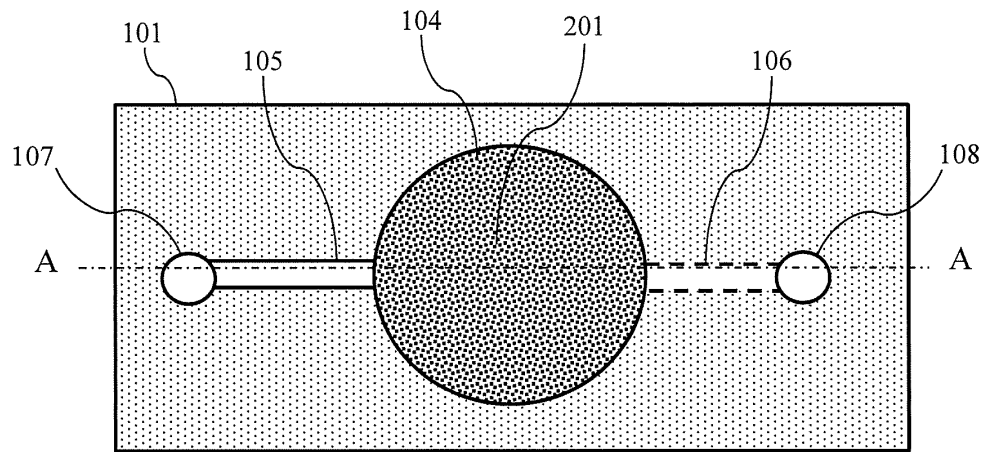
[図3B]

図 3 B



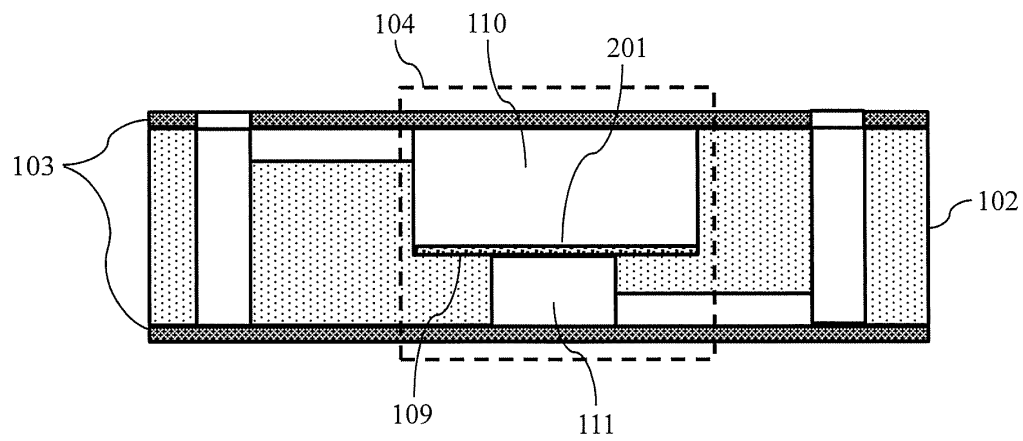
[図4A]

図 4 A



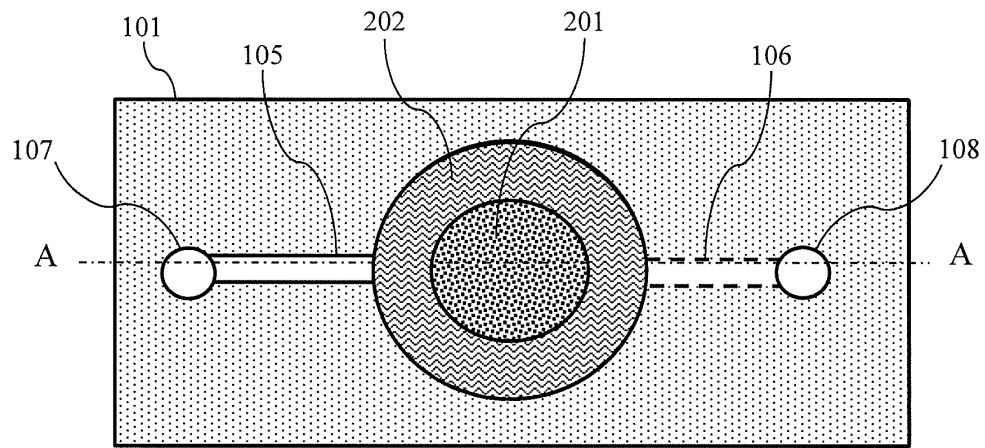
[図4B]

図 4 B



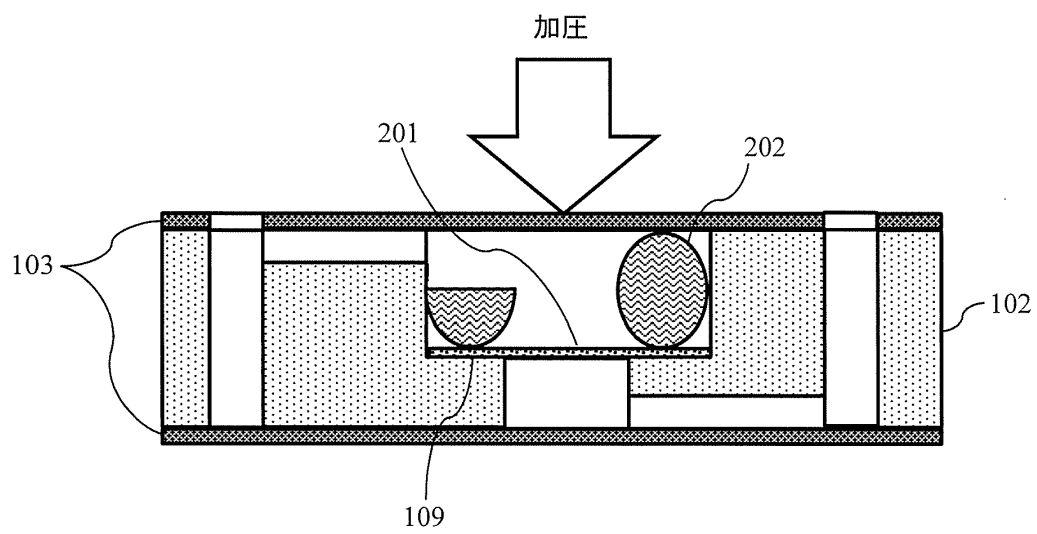
[図5A]

図 5 A



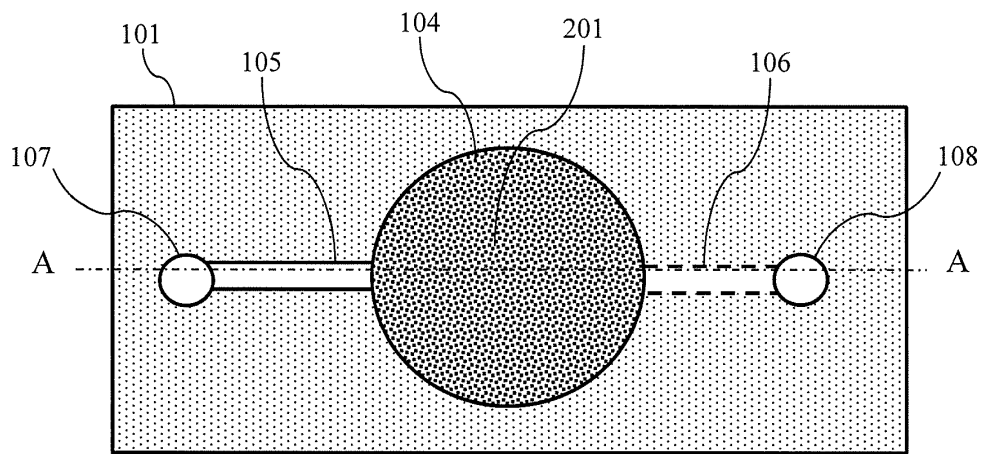
[図5B]

図 5 B



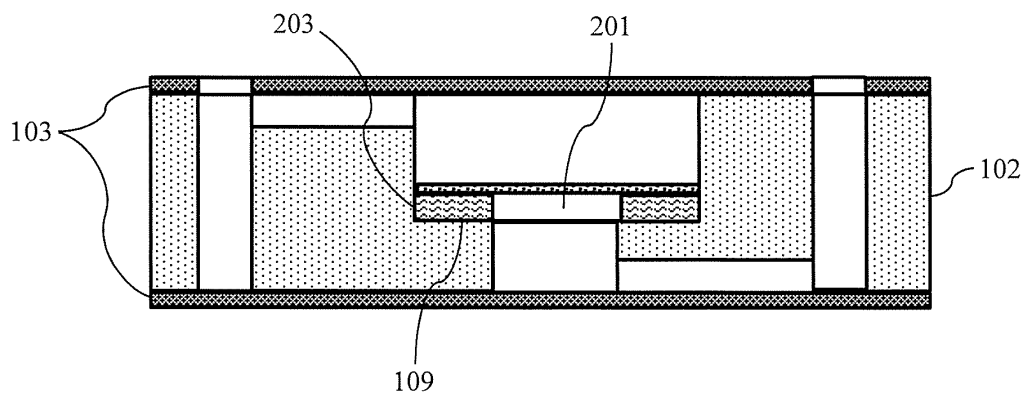
[図6A]

図 6 A



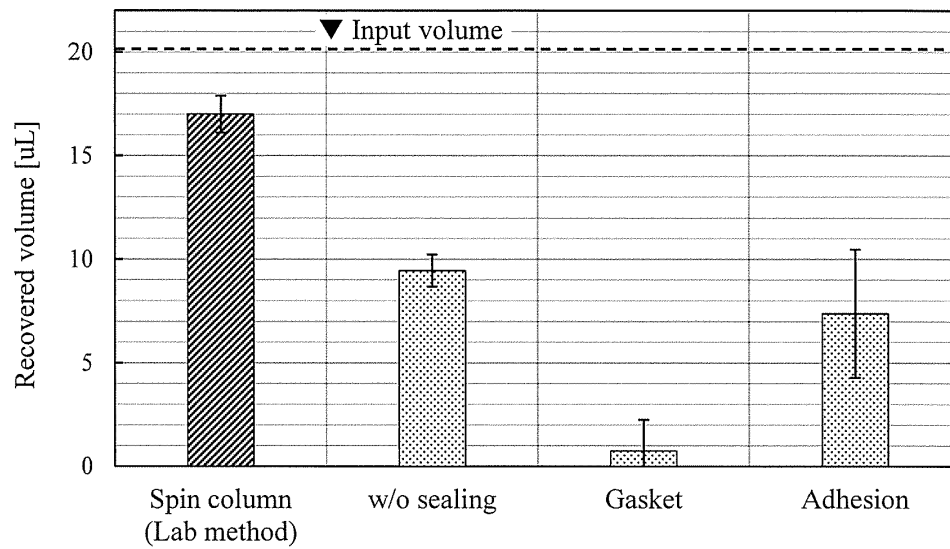
[図6B]

図 6 B



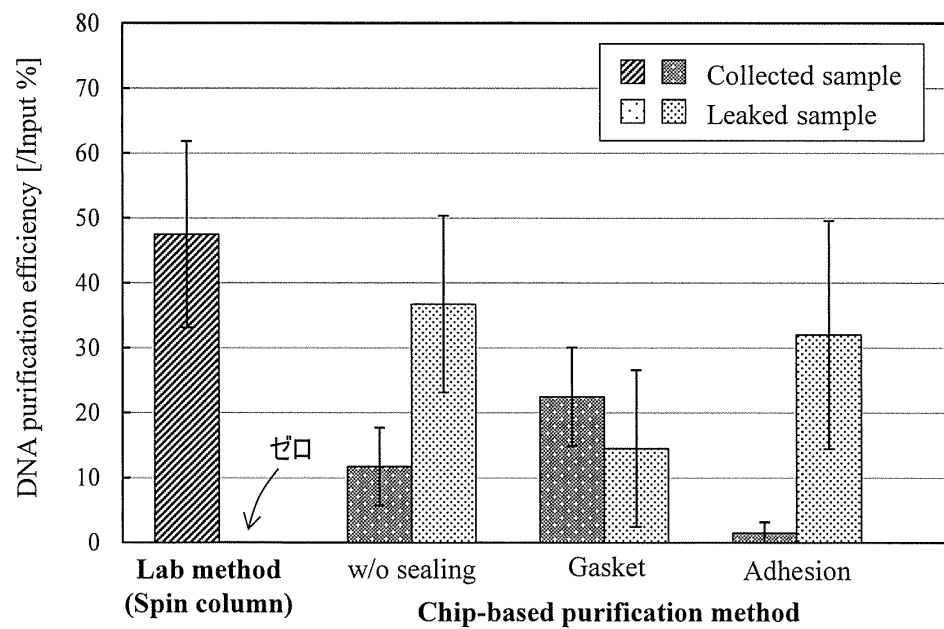
[図7A]

図 7 A



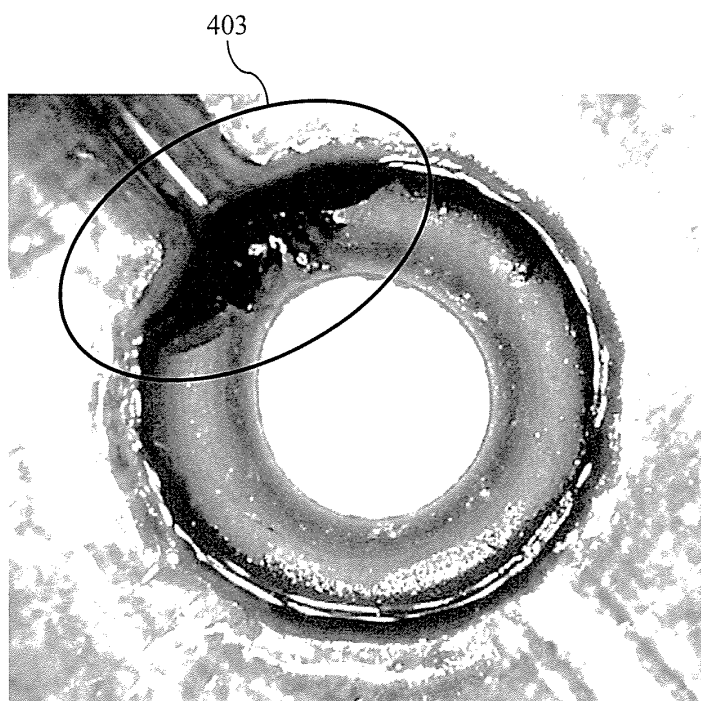
[図7B]

図 7 B



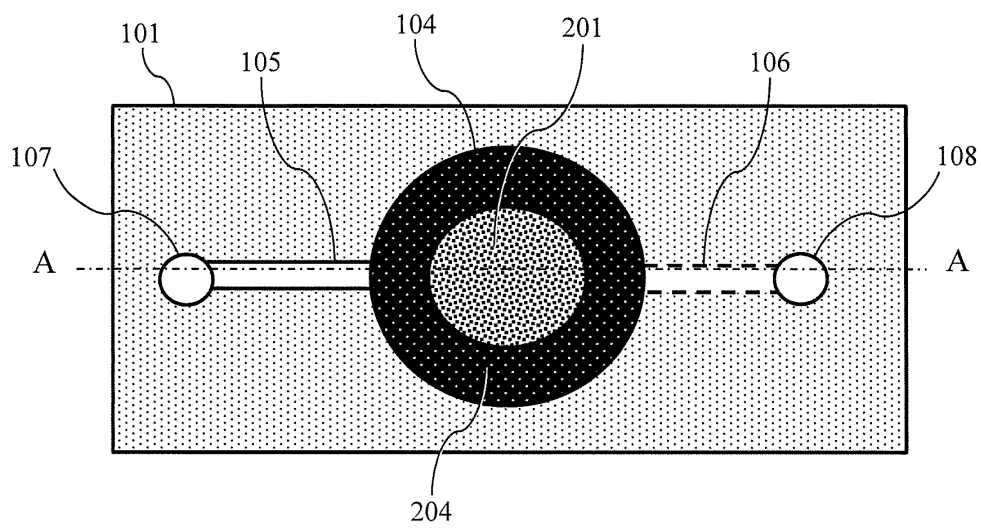
[図8]

図 8



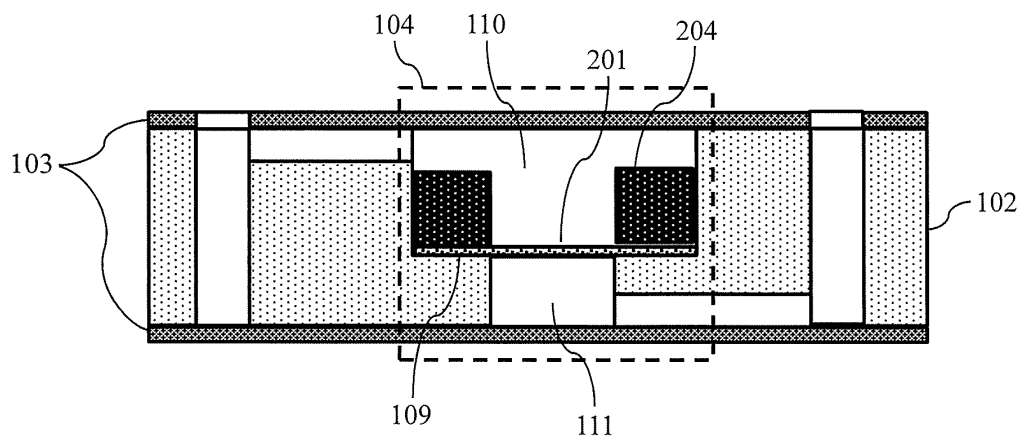
[図9A]

図 9 A

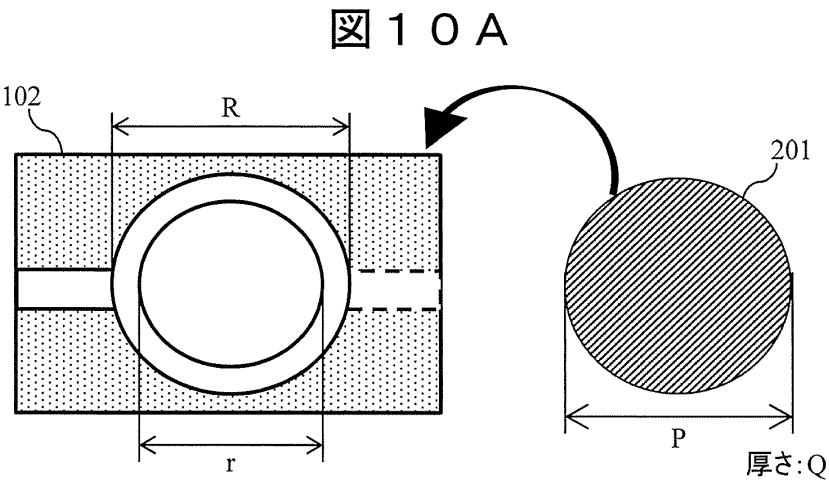


[図9B]

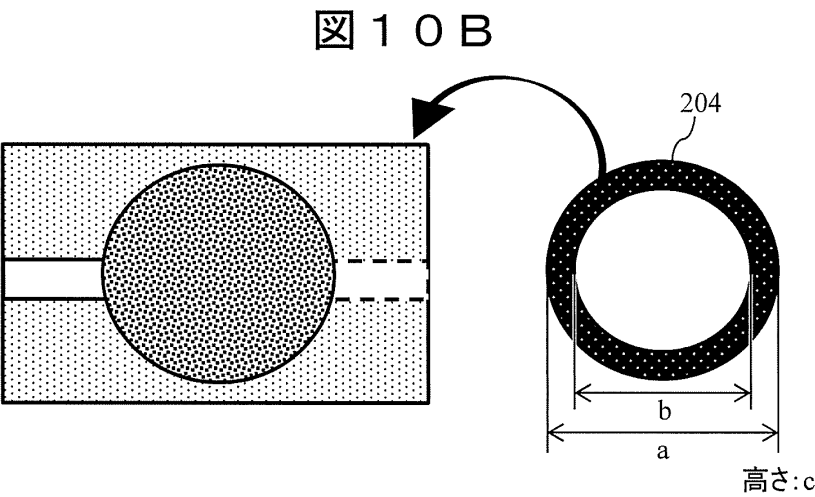
図 9 B



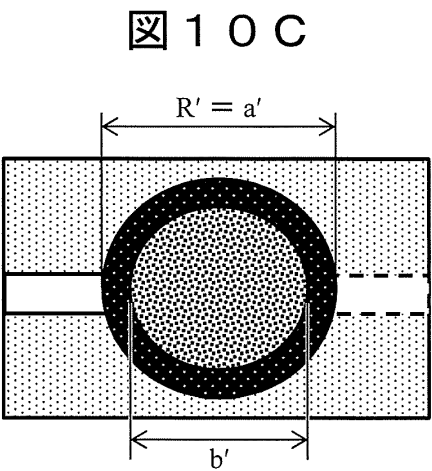
[図10A]



[図10B]

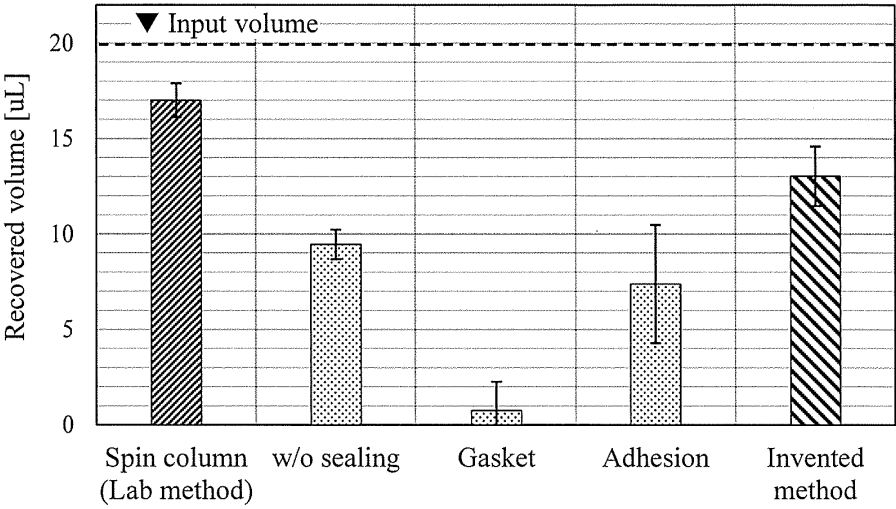


[図10C]



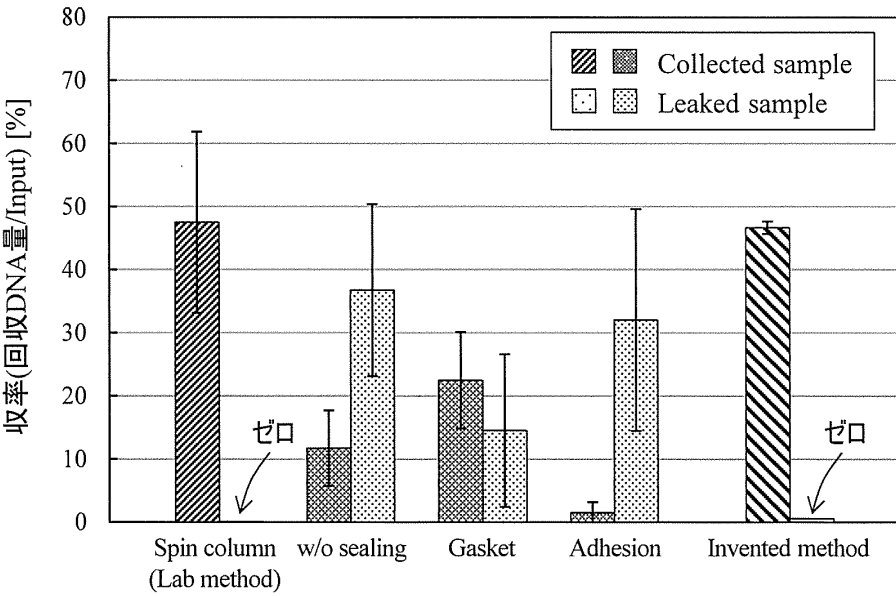
[図11A]

図 1 1 A



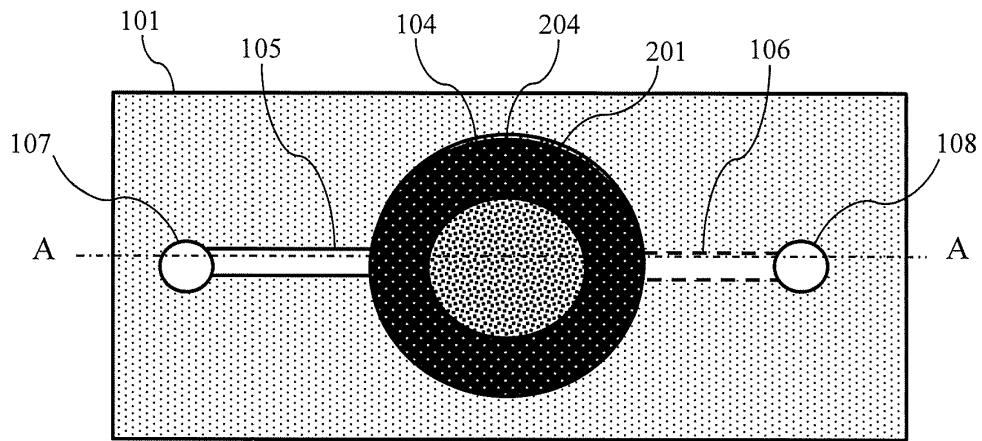
[図11B]

図 1 1 B



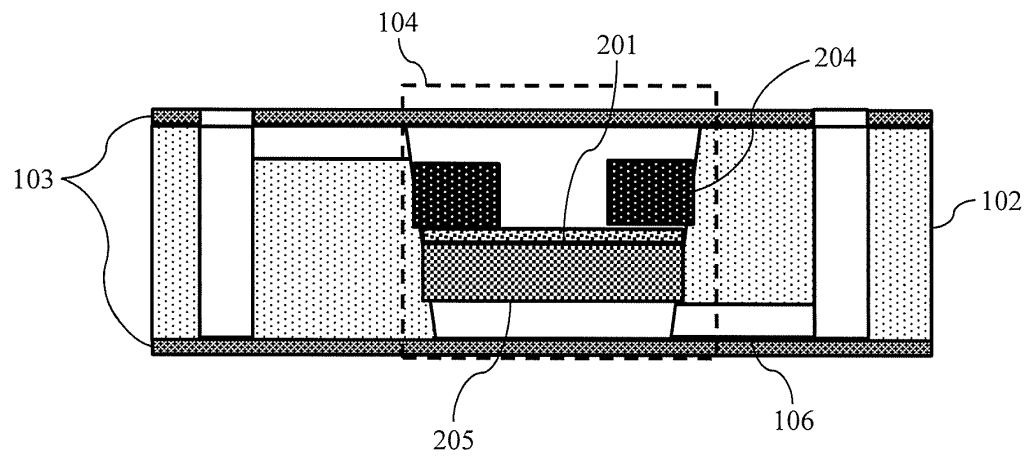
[図12A]

図 1 2 A

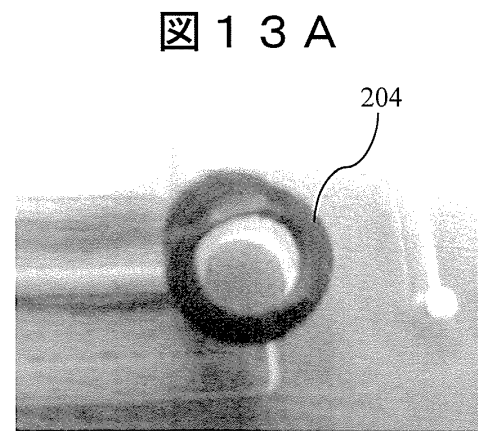


[図12B]

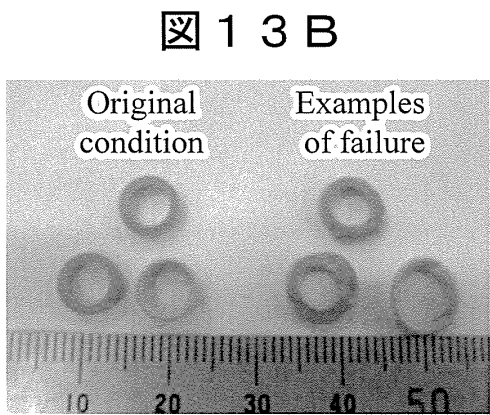
図 1 2 B



[図13A]



[図13B]



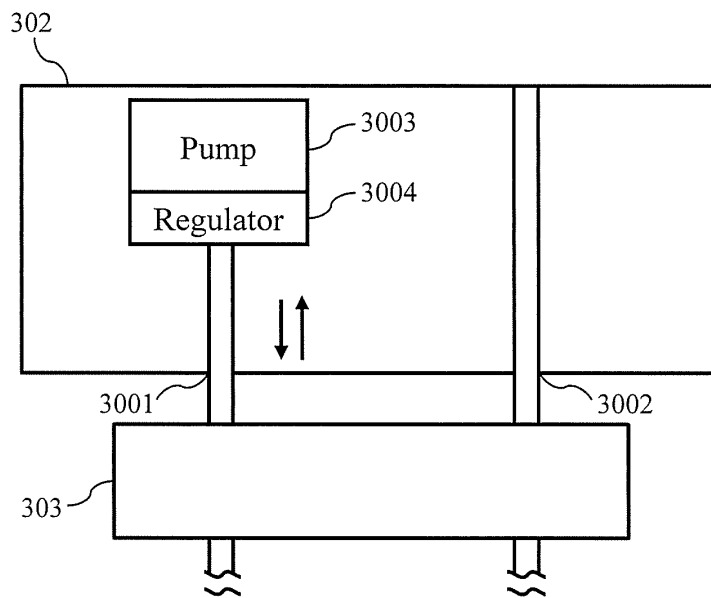
[図13C]

図 1 3 C

	Diameter of Membrane housing R (or S) [mm]	Outer diameter of Plastic fitting ring a (or A) [mm]	Success/failure of membrane fixing
Spin column	6.5	7.0	○
Invented chip device	6.5	6.5	○
		6.6	○
		6.7	○
		6.8	○
		6.9	×
		7	×
		7.1	×

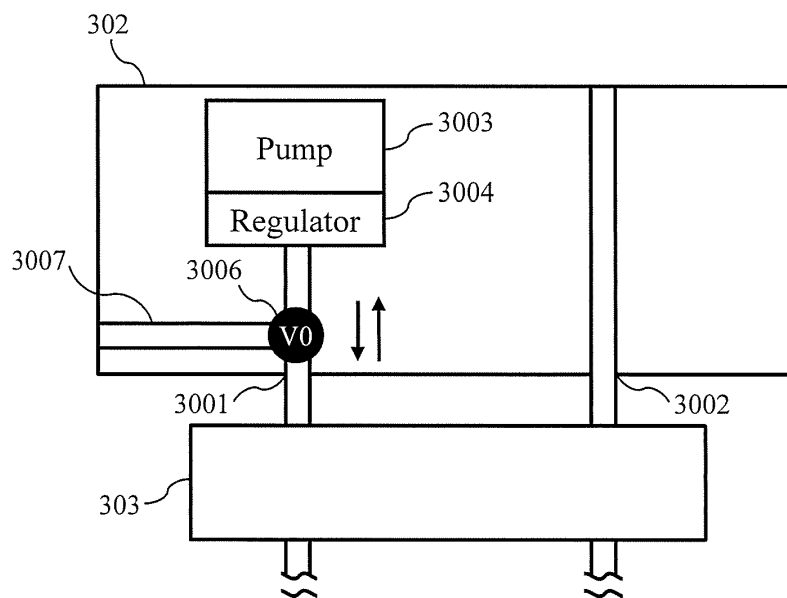
[図14A]

図 1 4 A



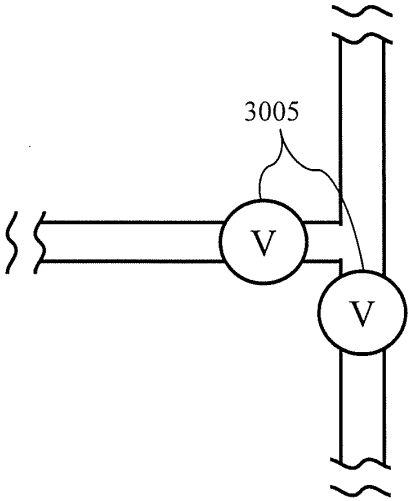
[図14B]

図 1 4 B



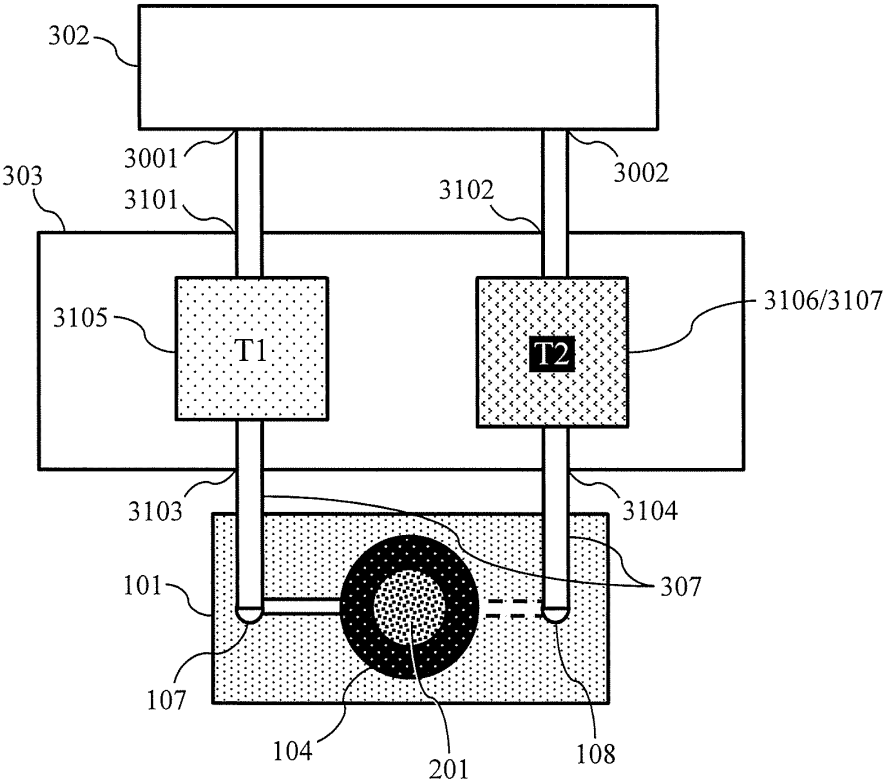
[図15]

図 1 5



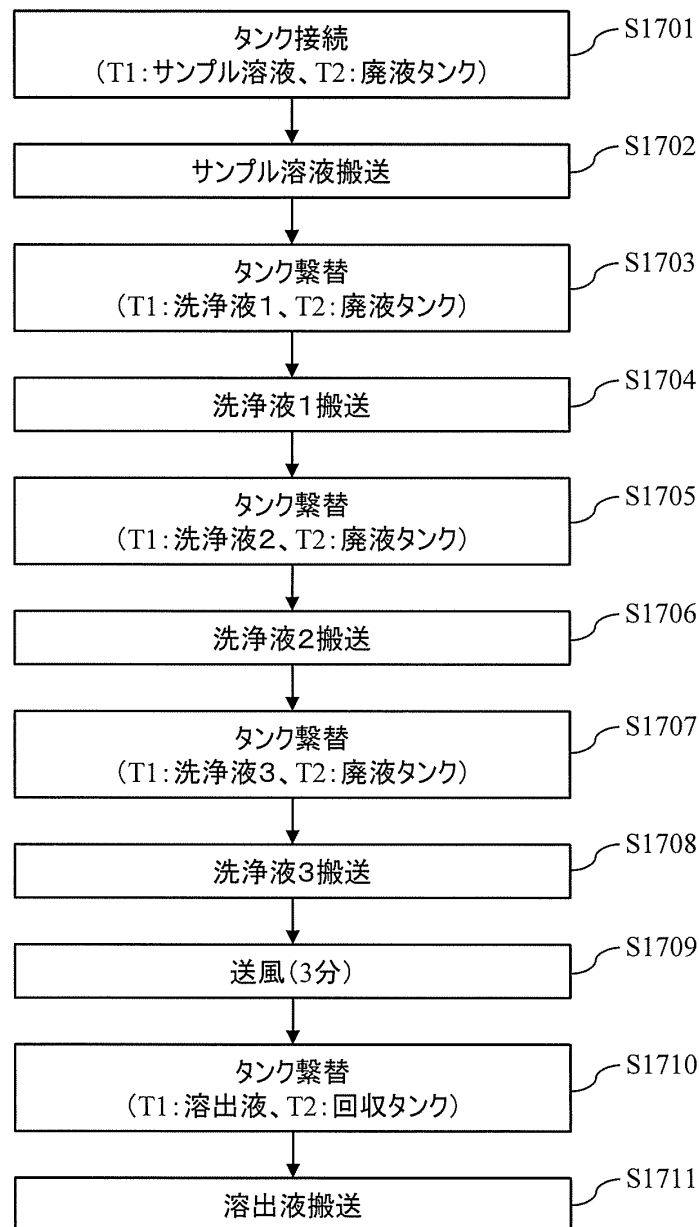
[図16]

図 1 6



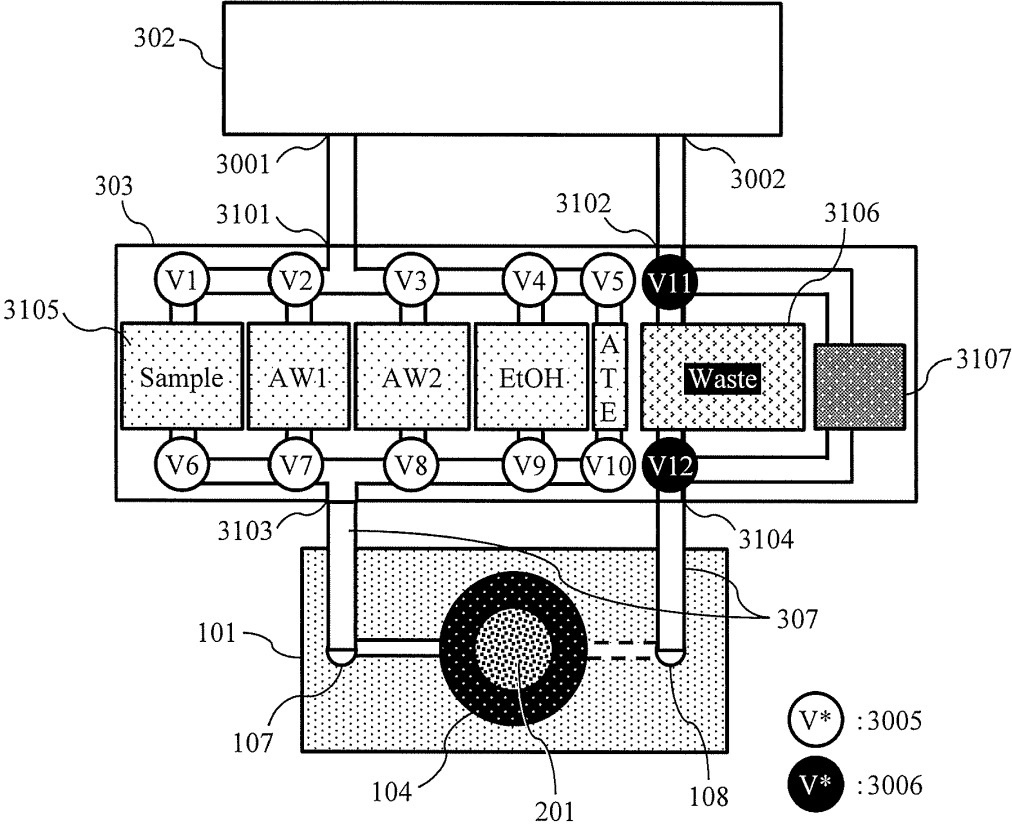
[図17]

図 1 7



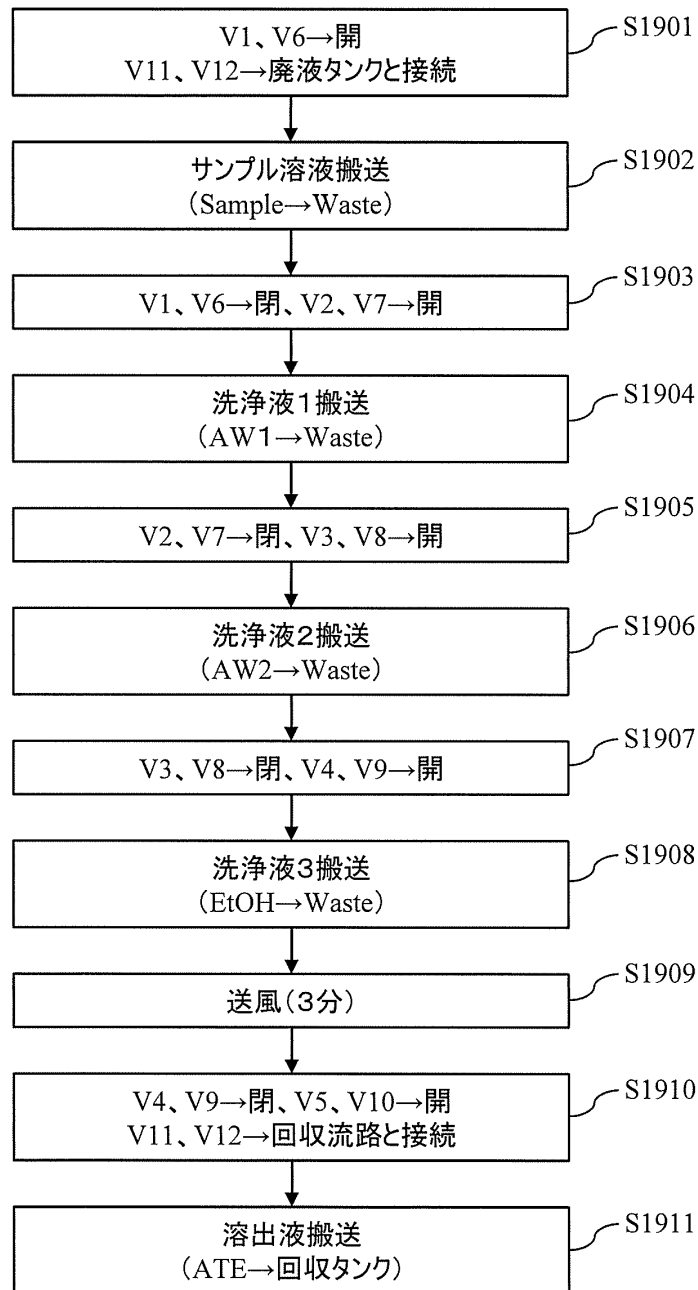
[図18]

図 1 8



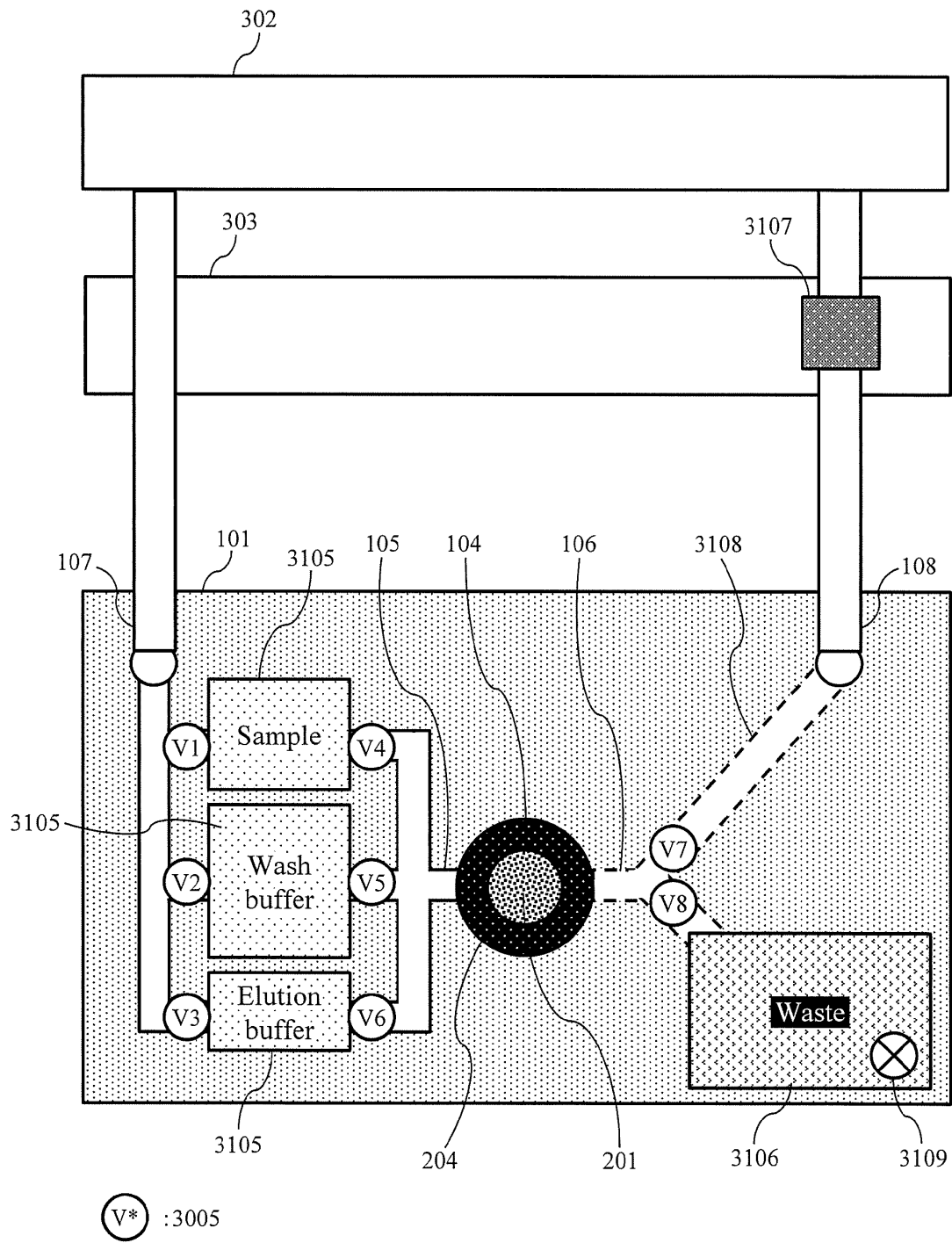
[図19]

図 19



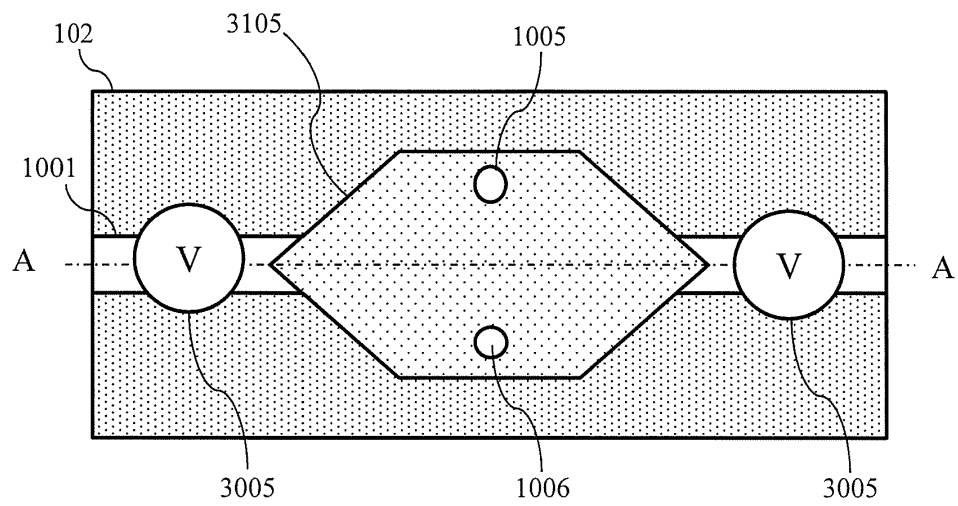
[図20]

図 20



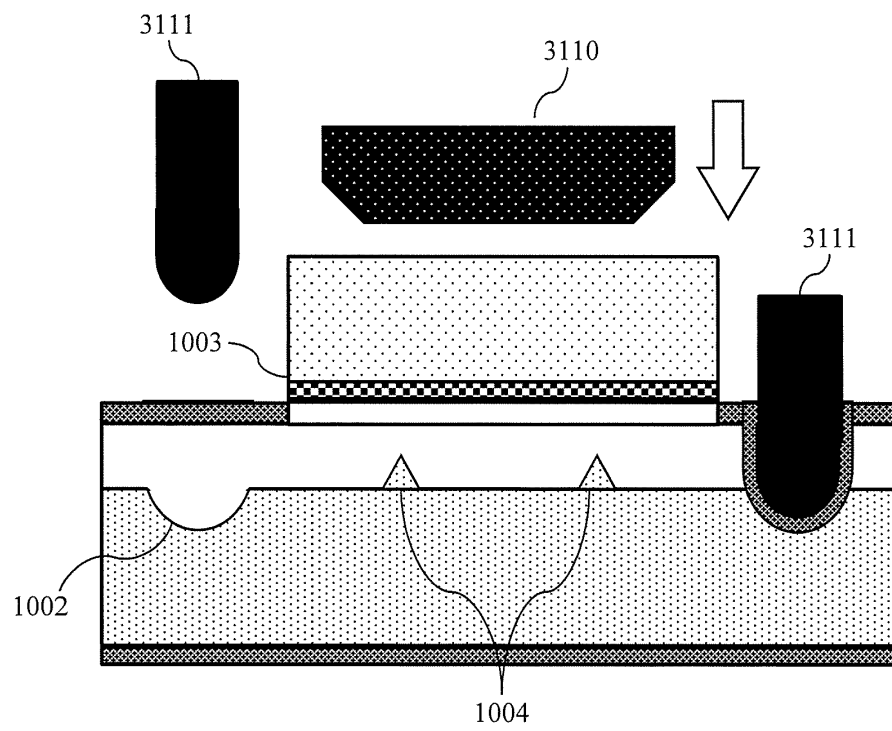
[図21A]

図 2 1 A



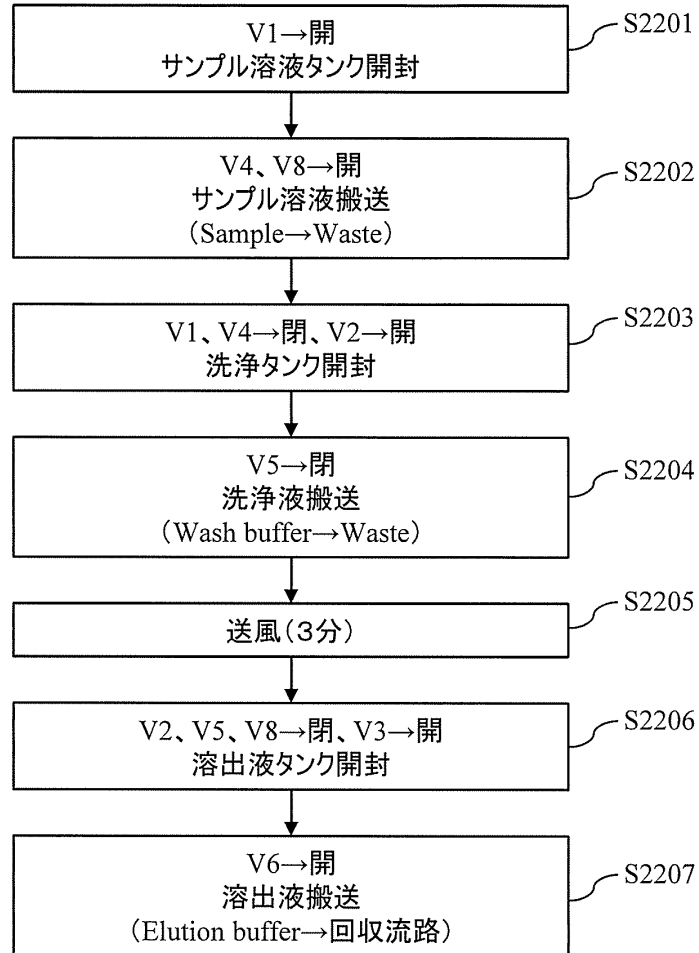
[図21B]

図 2 1 B



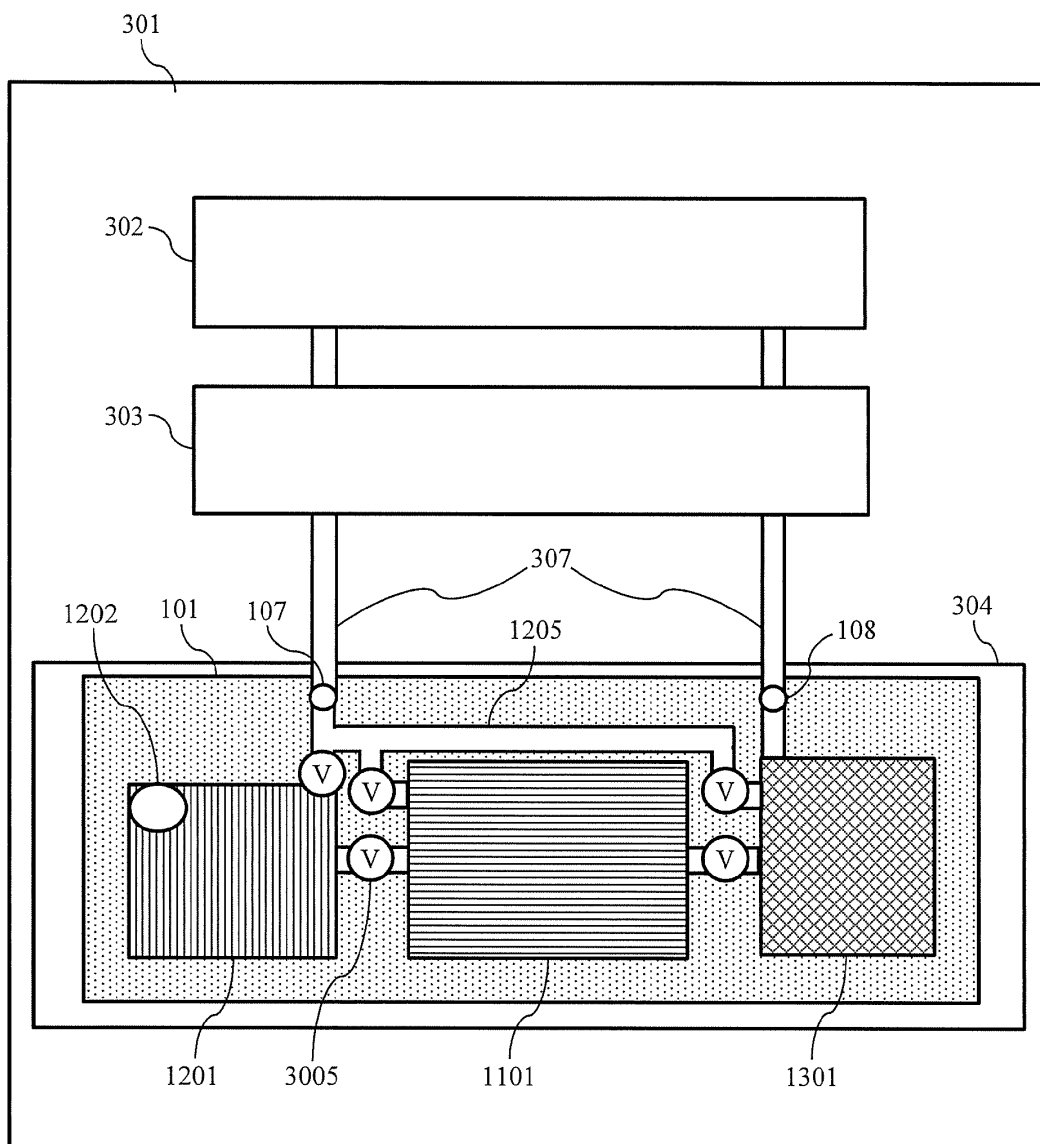
[図22]

図 2 2



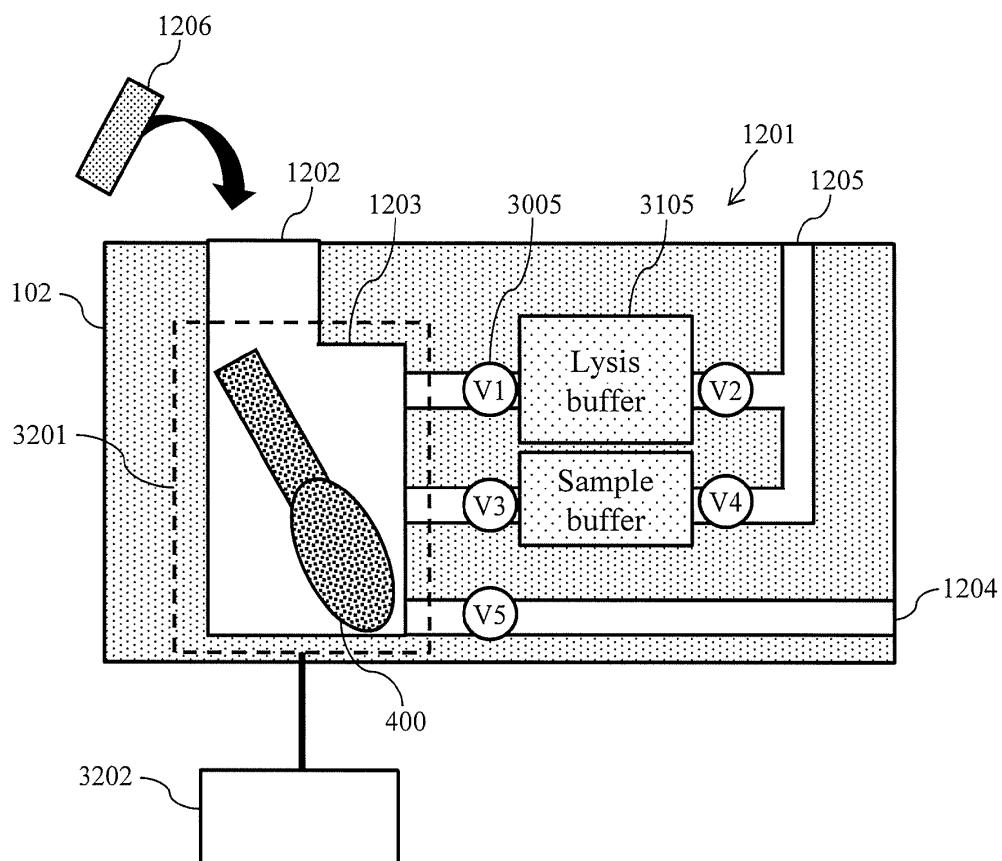
[図23]

図 23



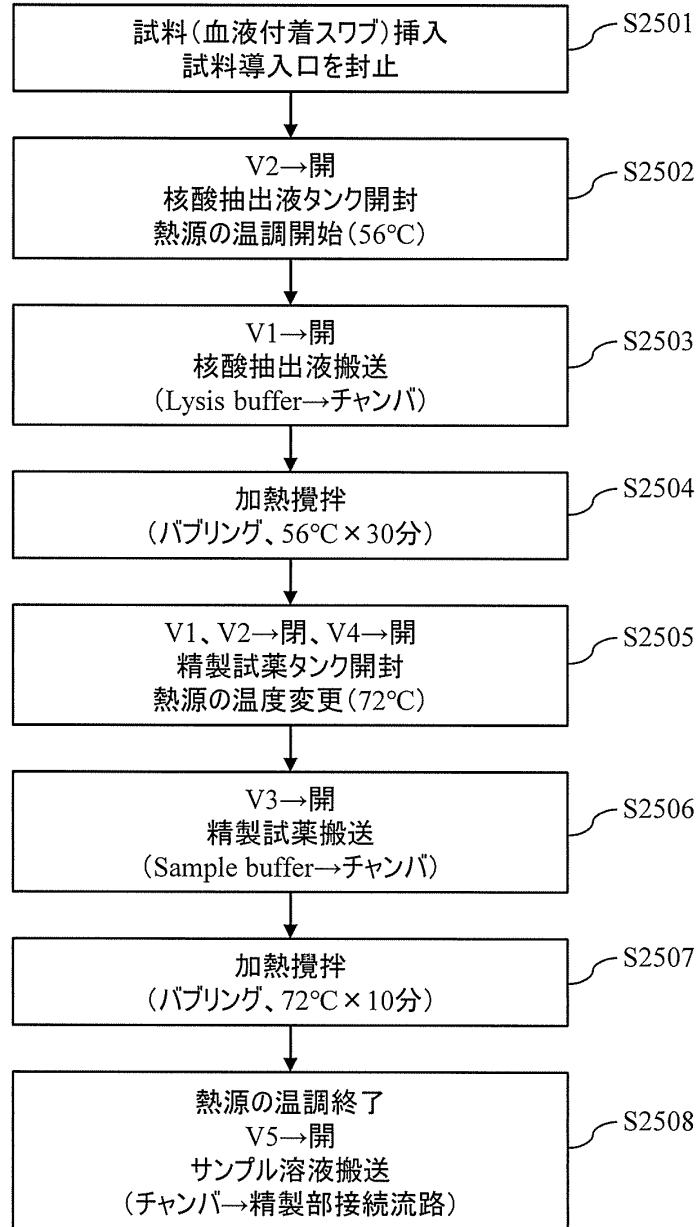
[図24]

図 2 4



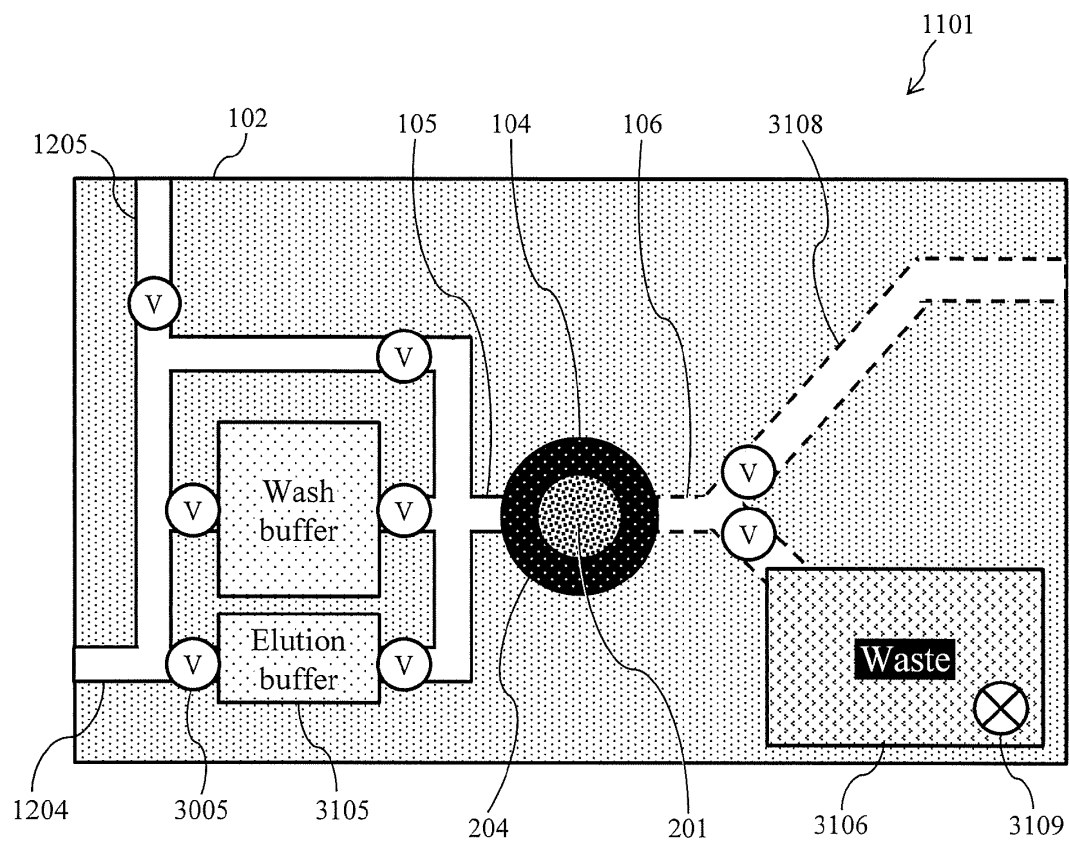
[図25]

図 2 5



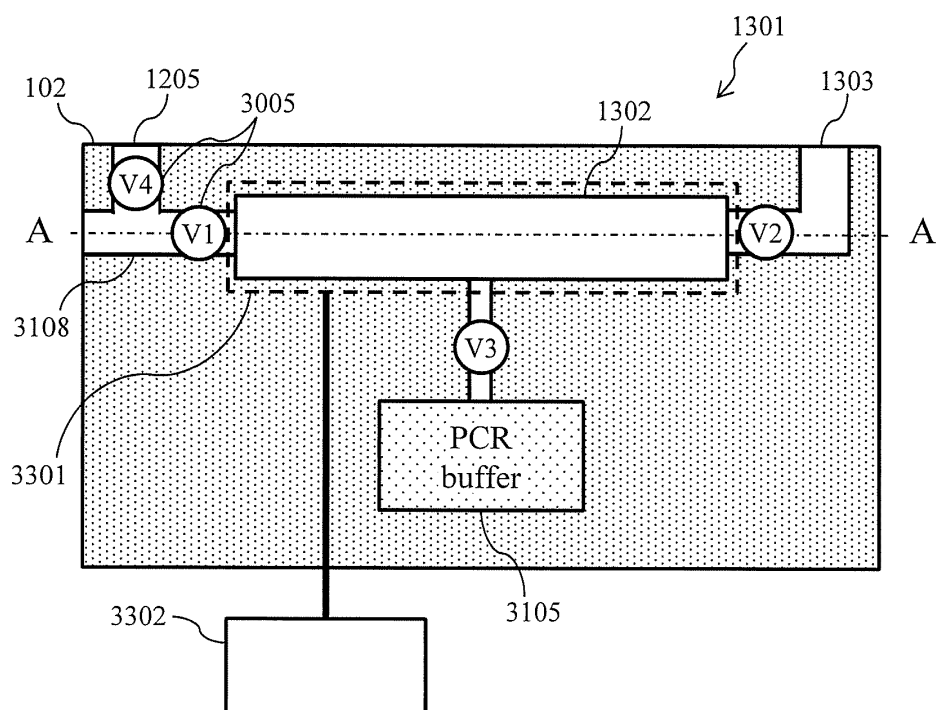
[図26]

図 26



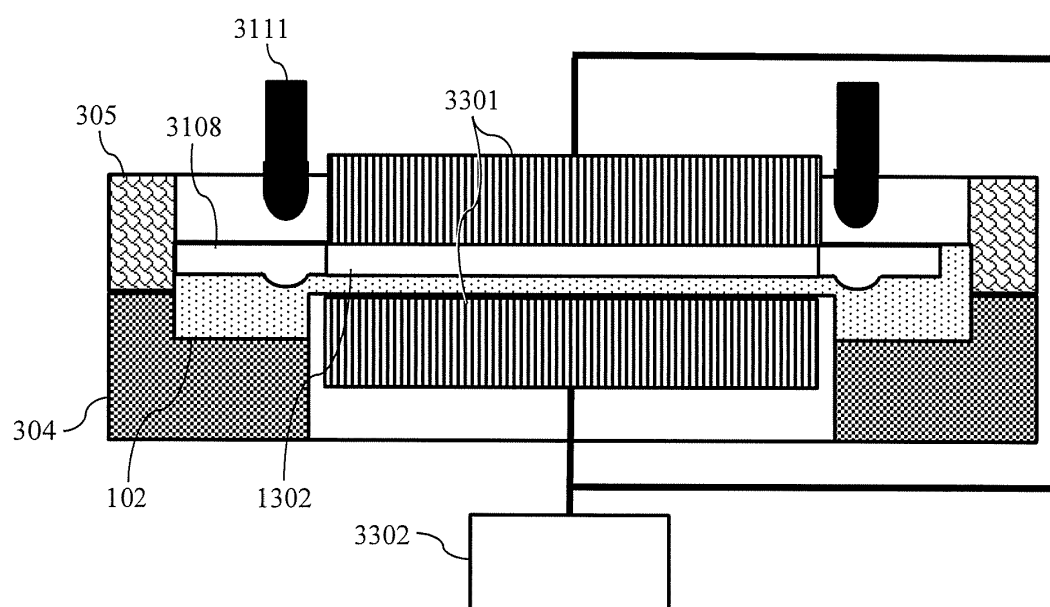
[図27A]

図 27 A



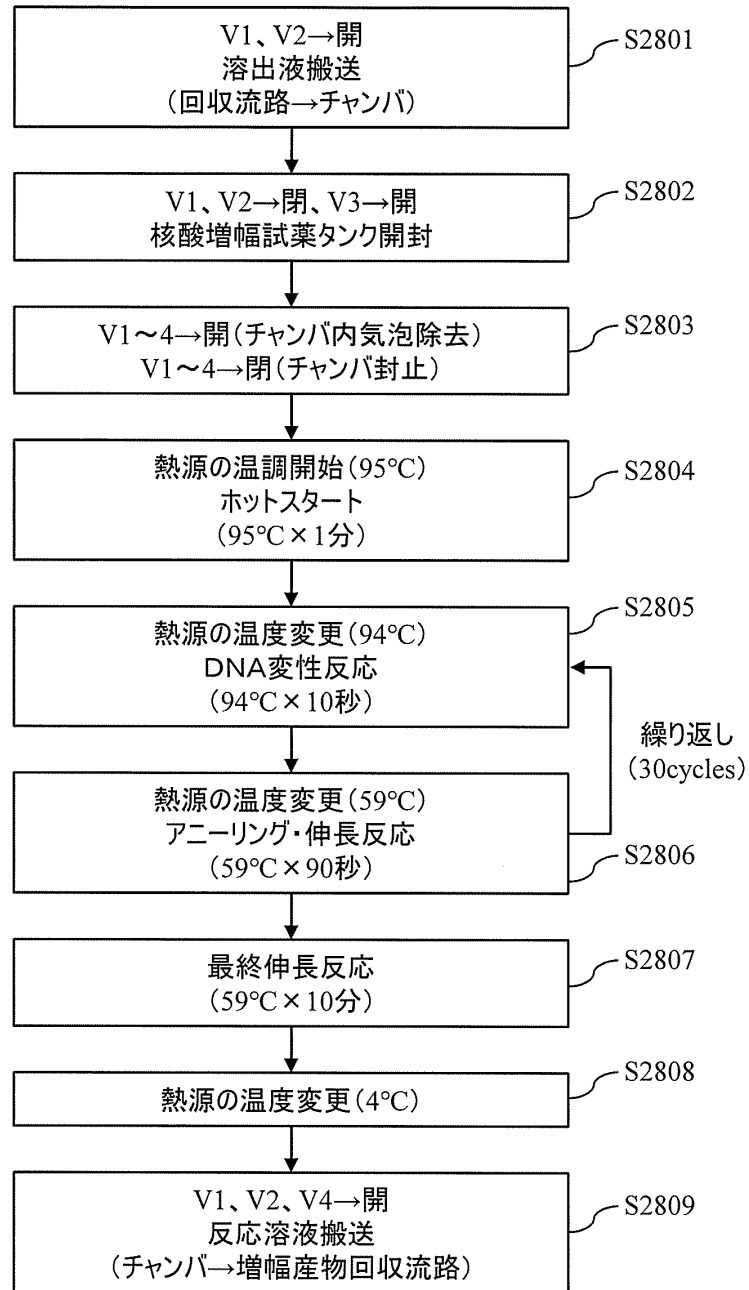
[図27B]

図 27 B



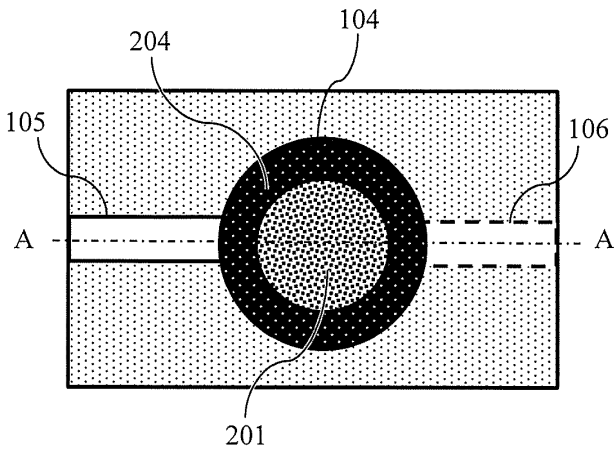
[図28]

図 28



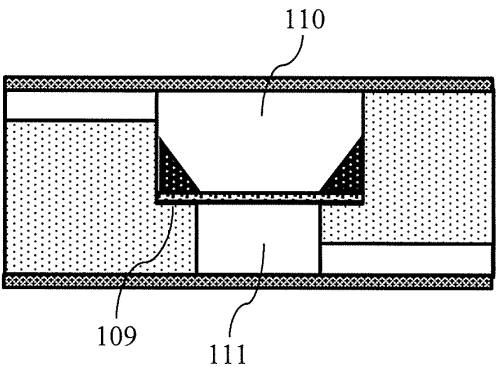
[図29A]

図 2 9 A



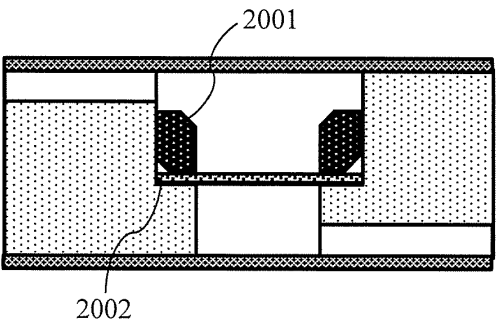
[図29B]

図 2 9 B



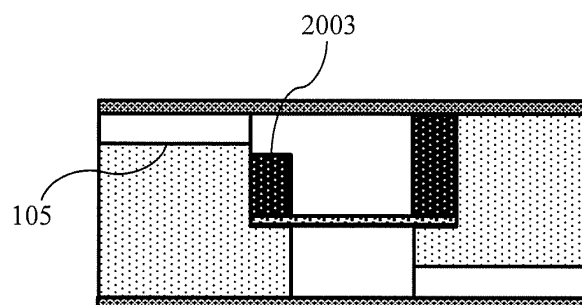
[図29C]

図 2 9 C



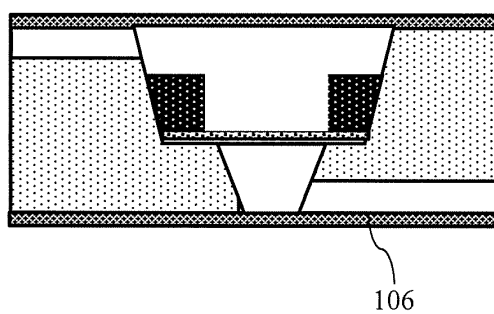
[図29D]

図 2 9 D



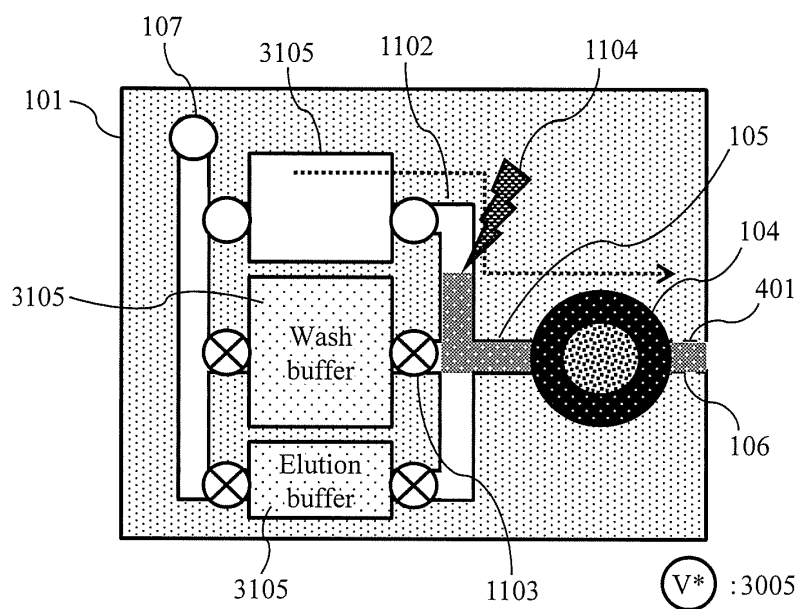
[図29E]

図 2 9 E



[図30A]

図 3 0 A



[図30B]

図 3 0 B

