

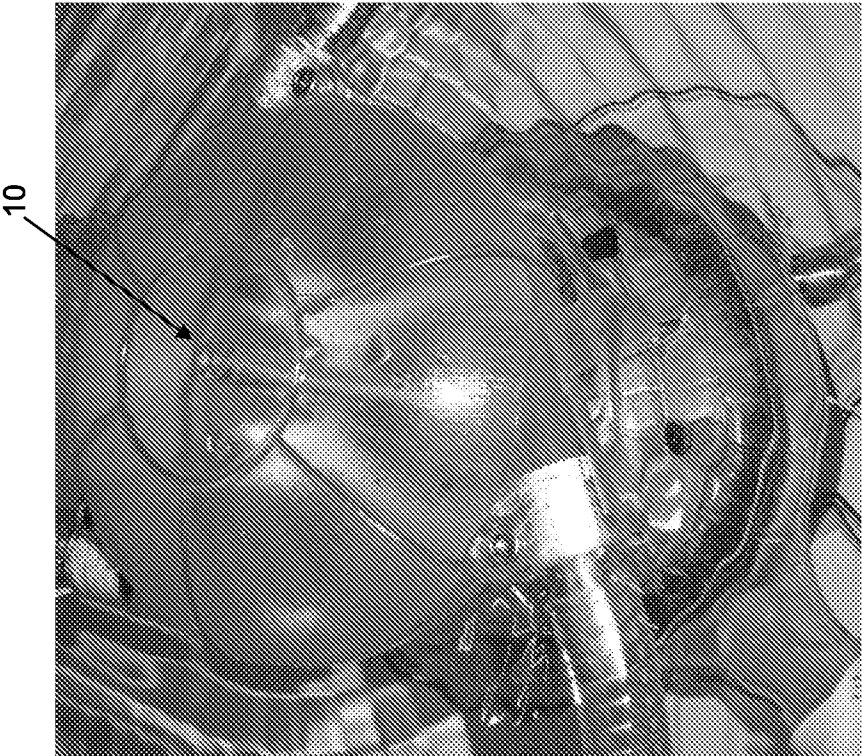


FIG. 1C

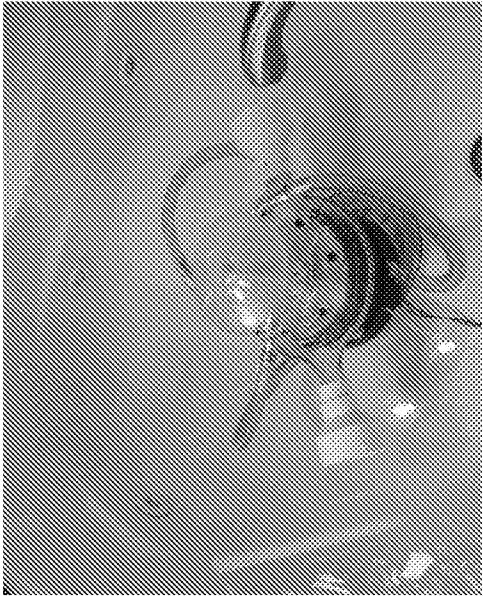
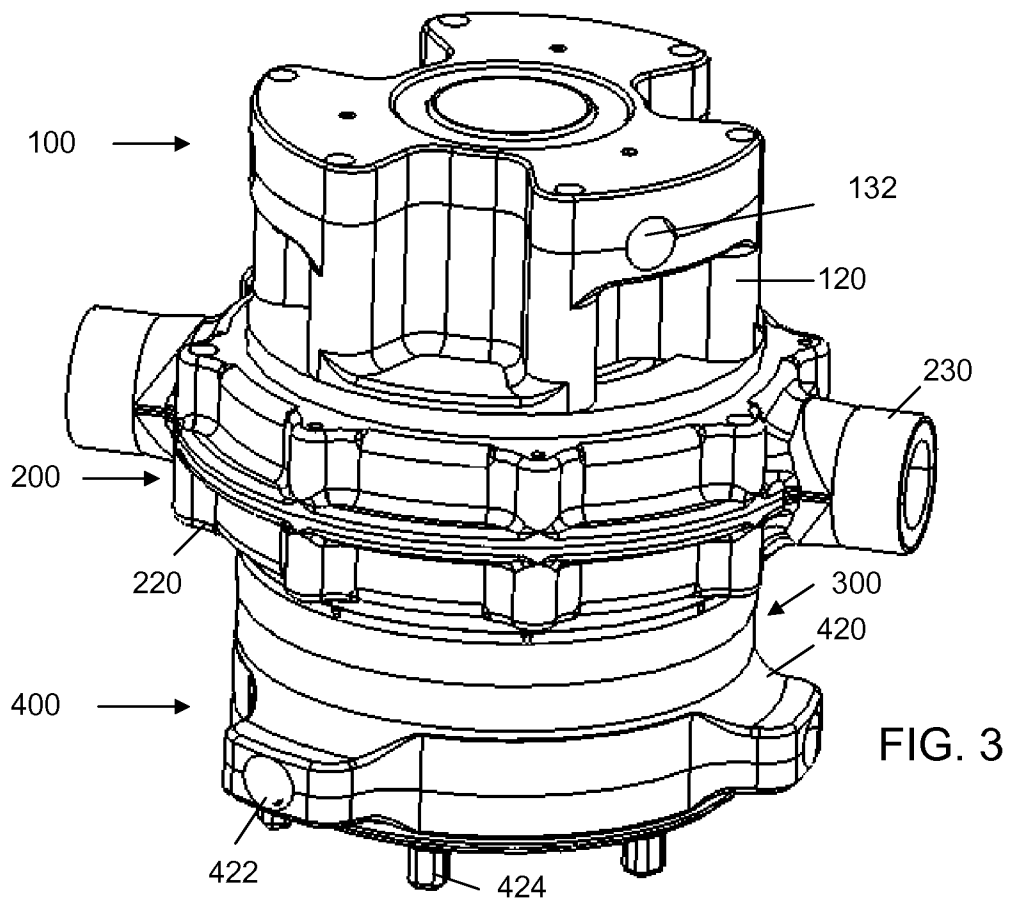
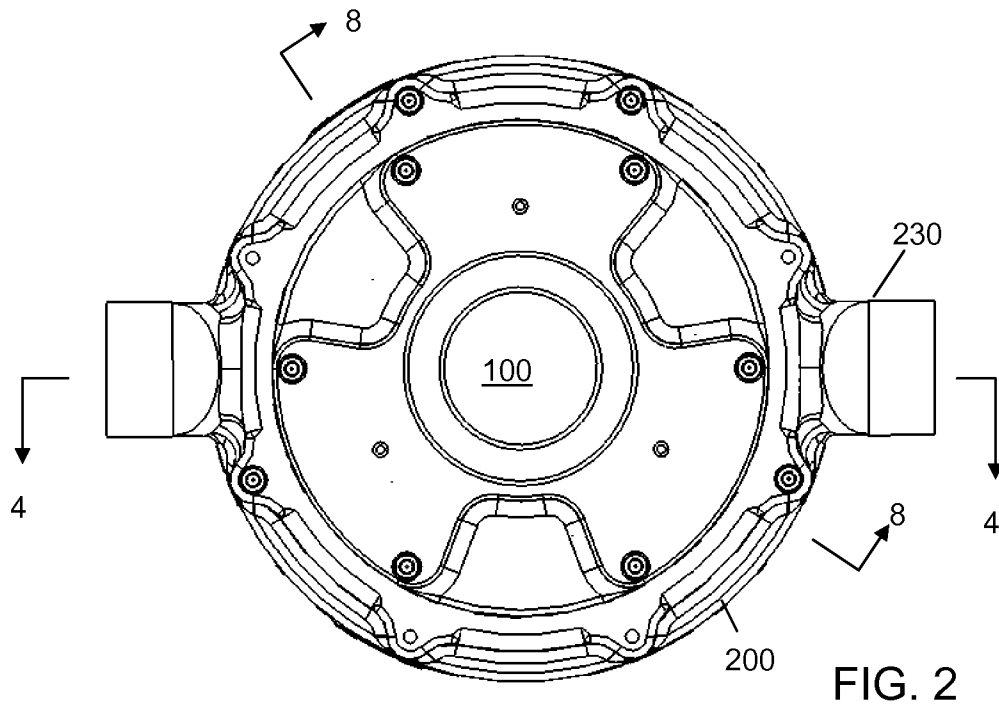
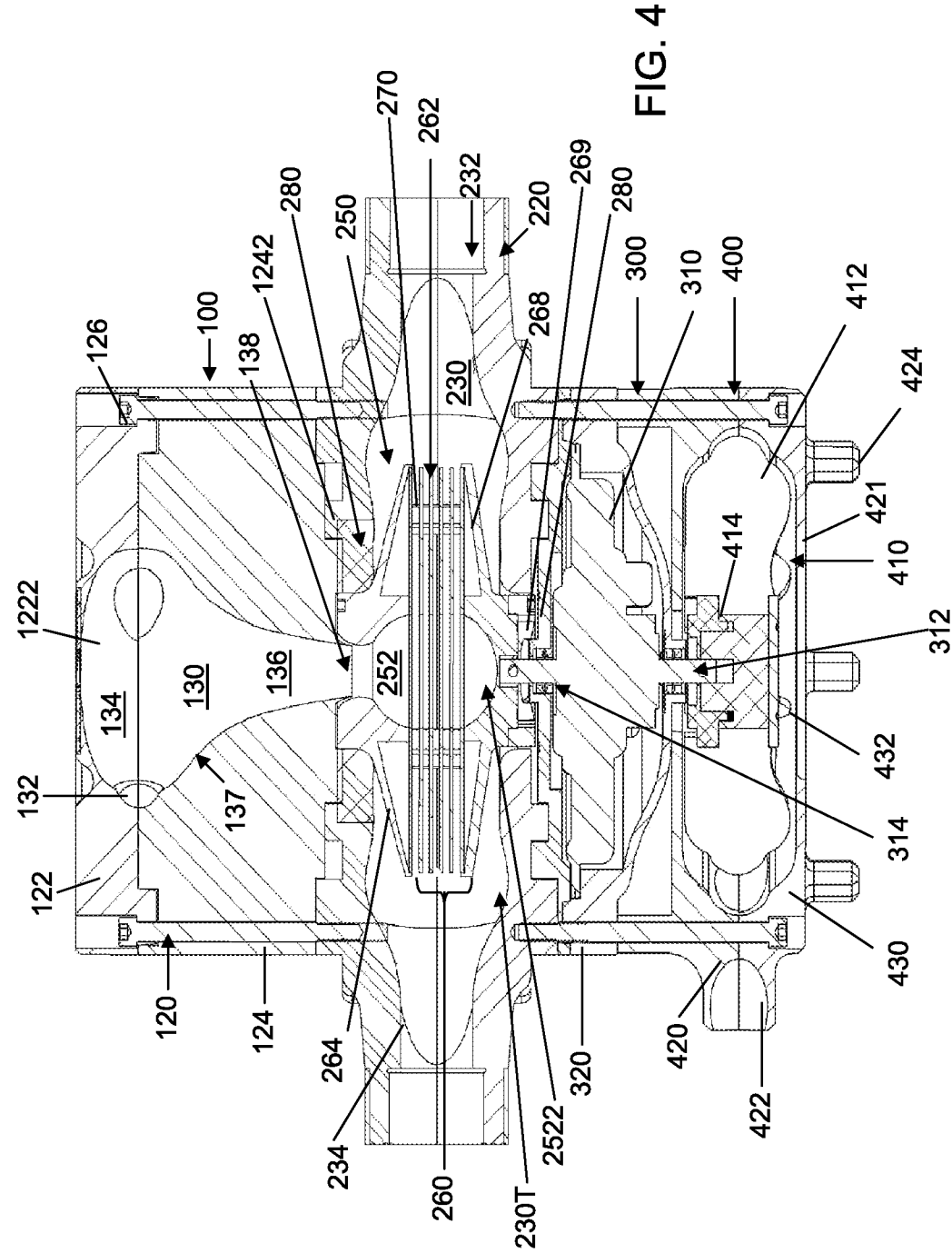


FIG. 1A



FIG. 1B





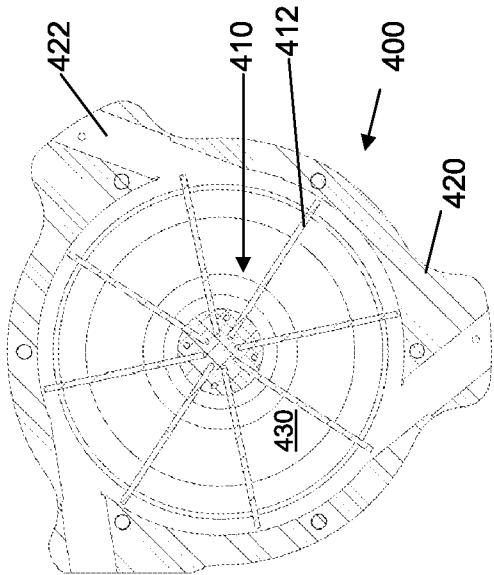


FIG. 7

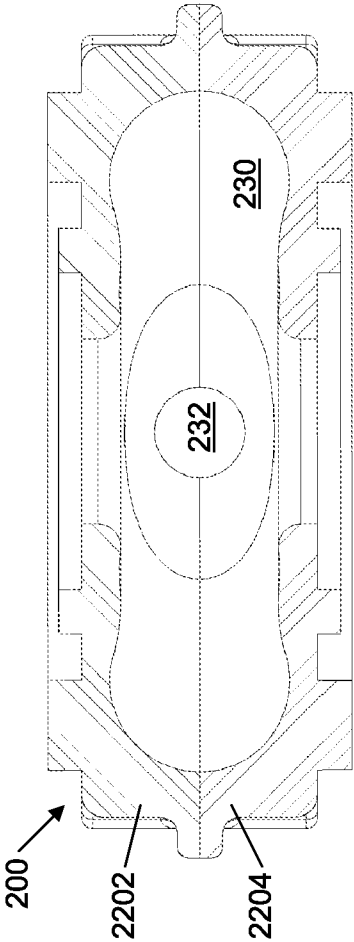


FIG. 10

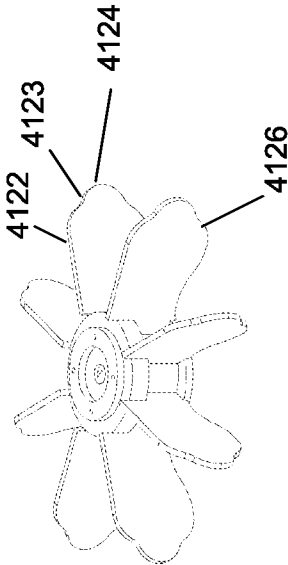


FIG. 6

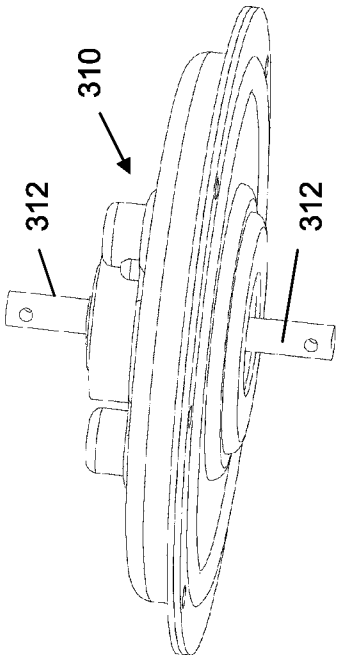


FIG. 5

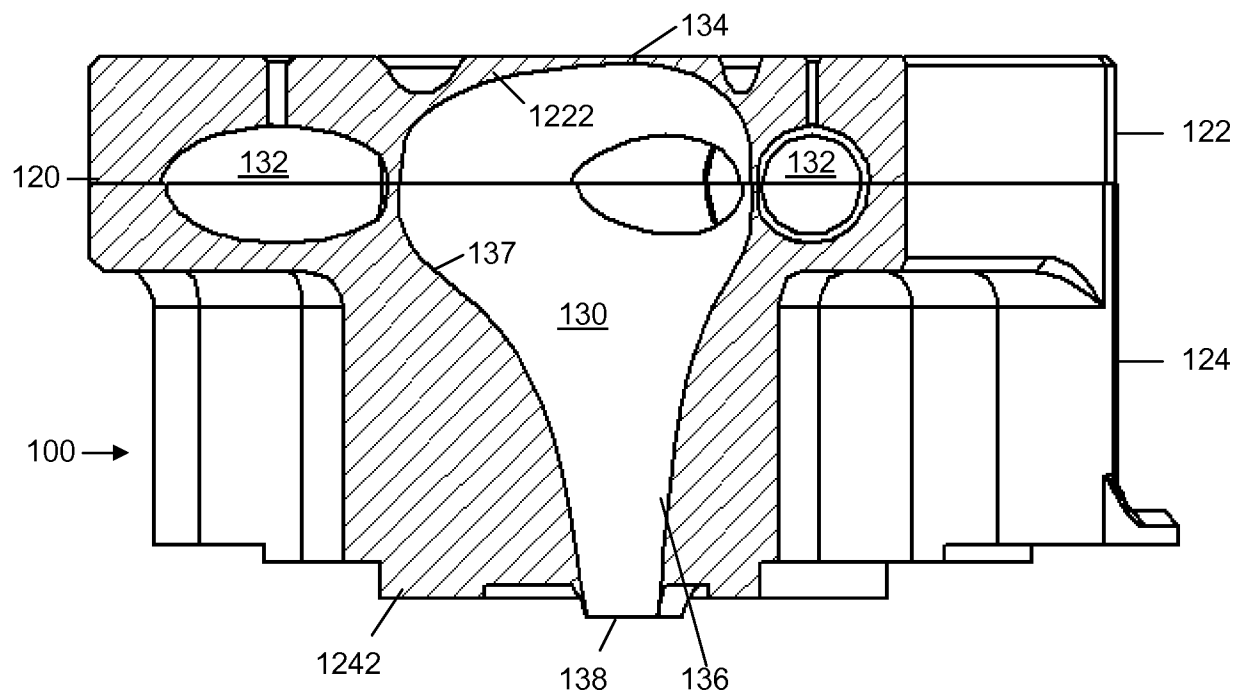


FIG. 8

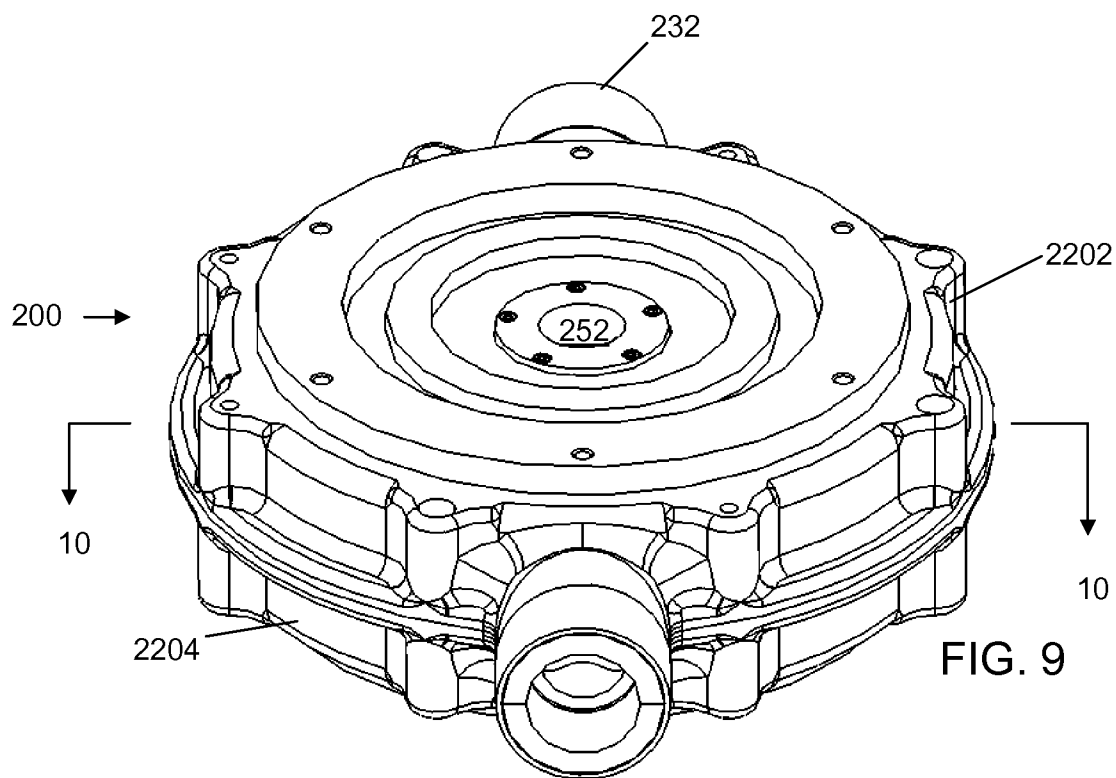


FIG. 9

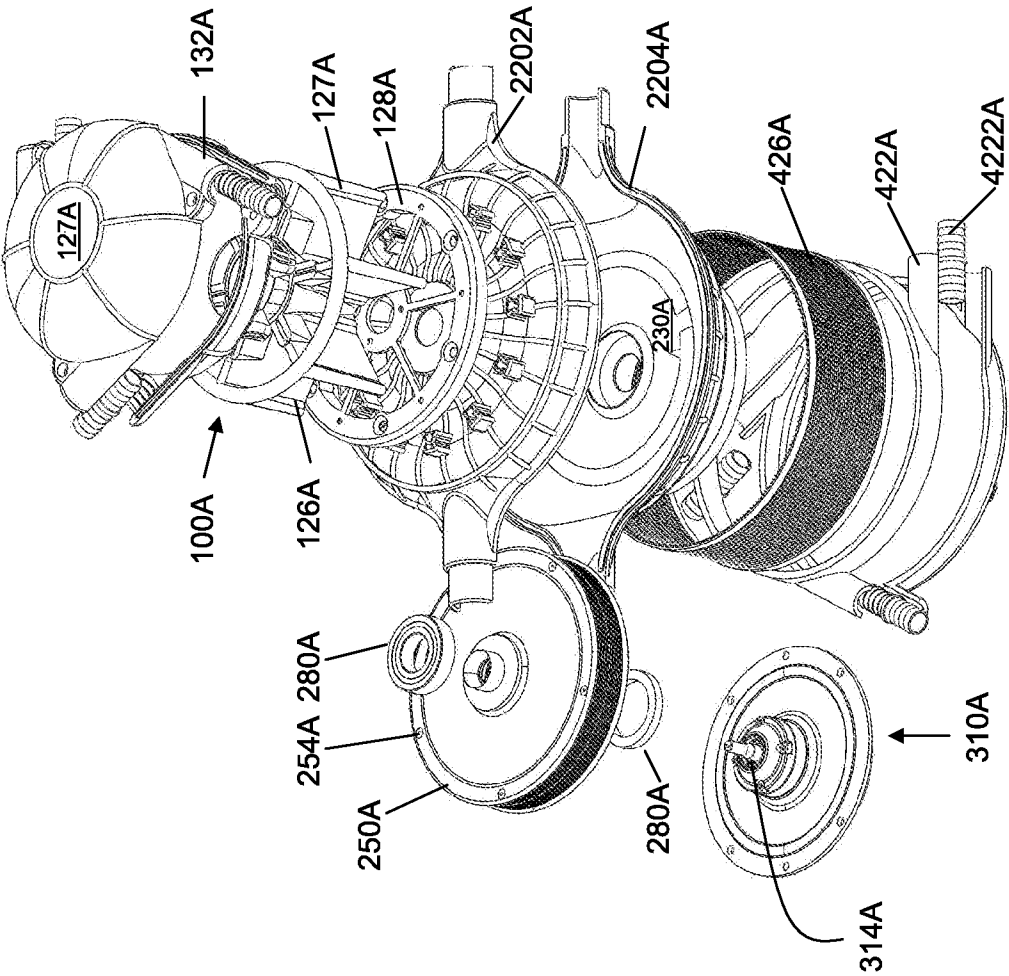


FIG. 14

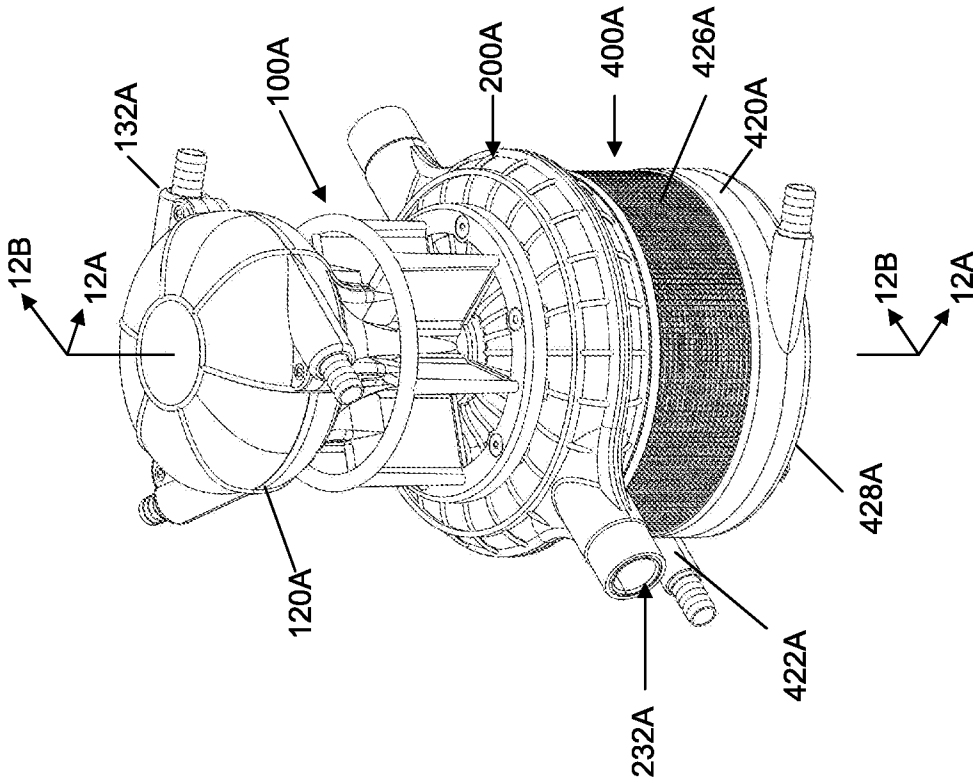


FIG. 11

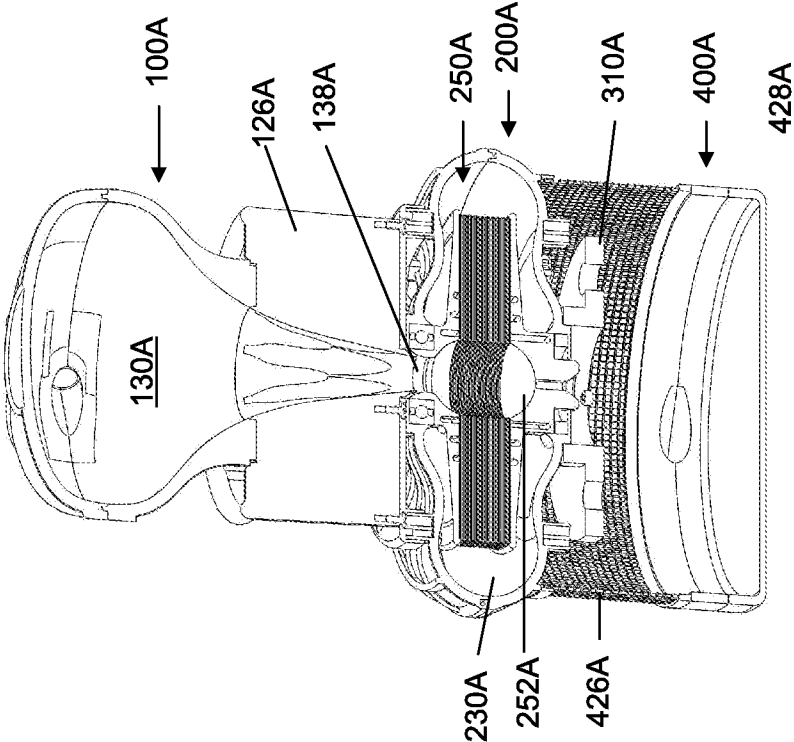


FIG. 12B

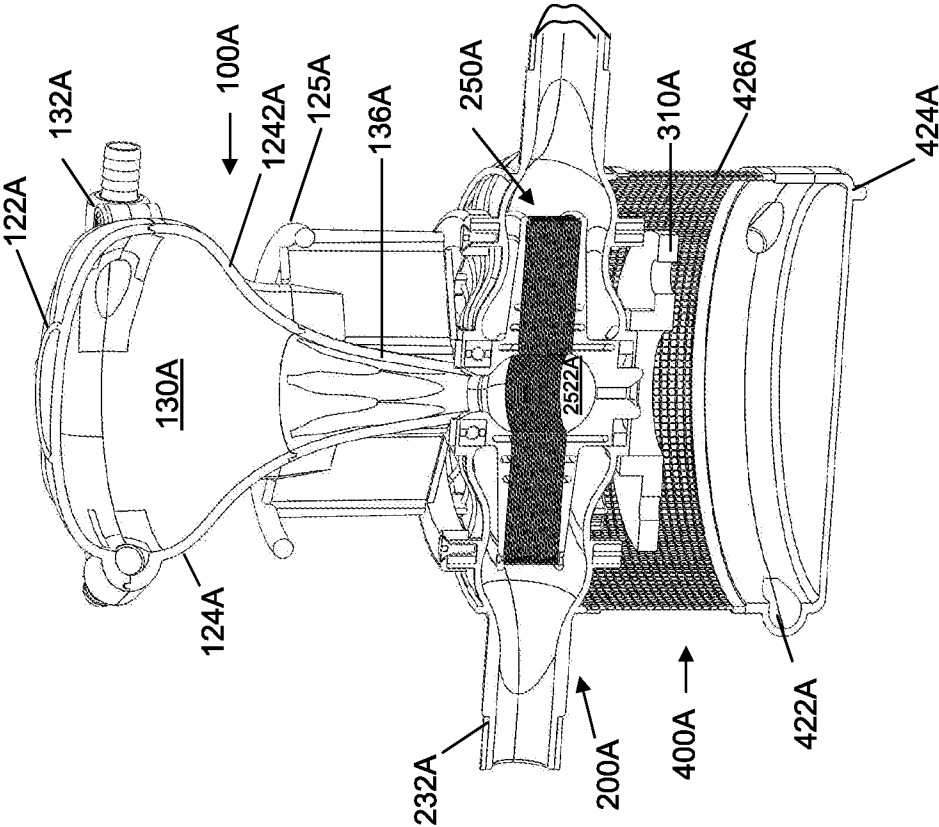


FIG. 12A

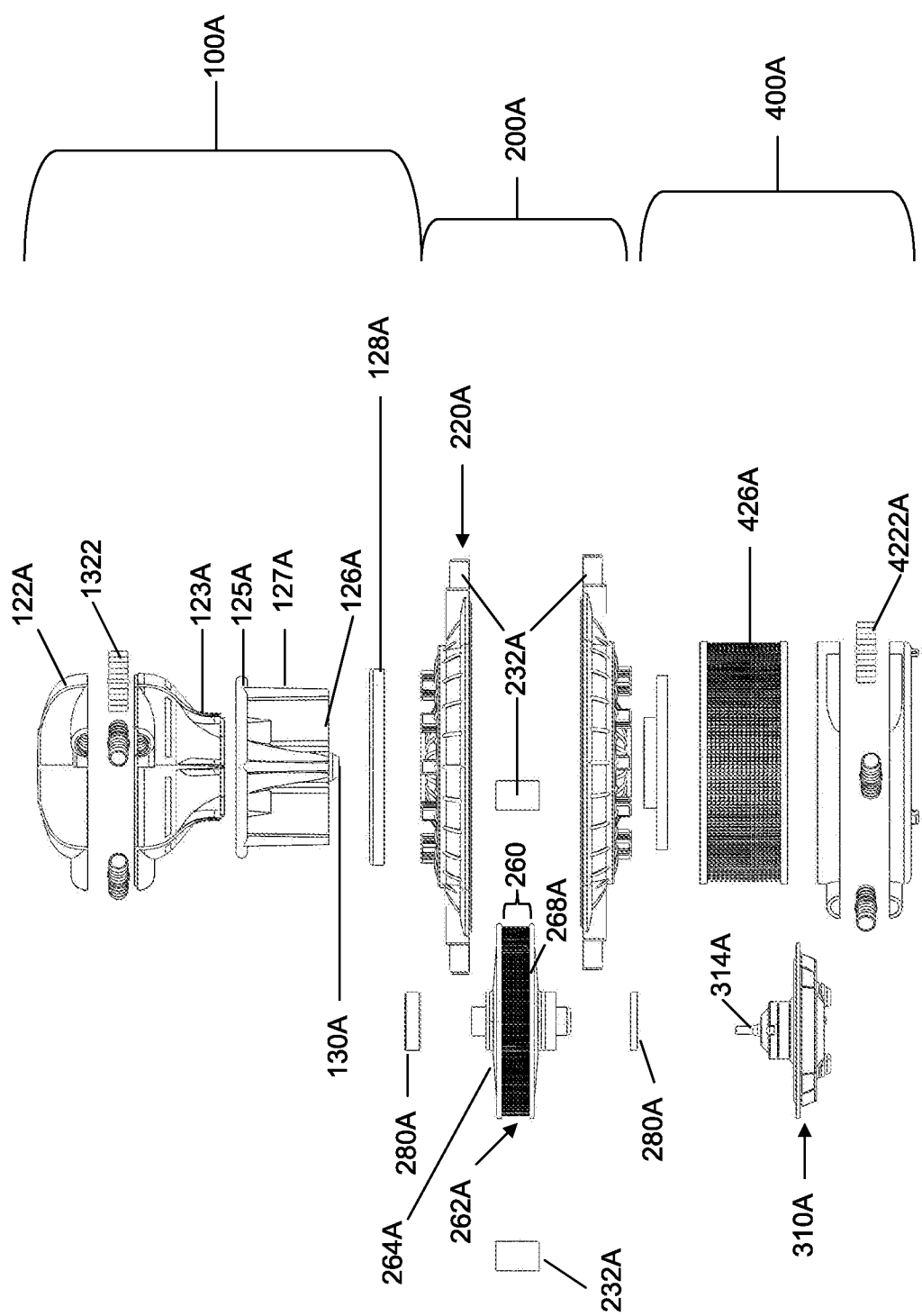


FIG. 13

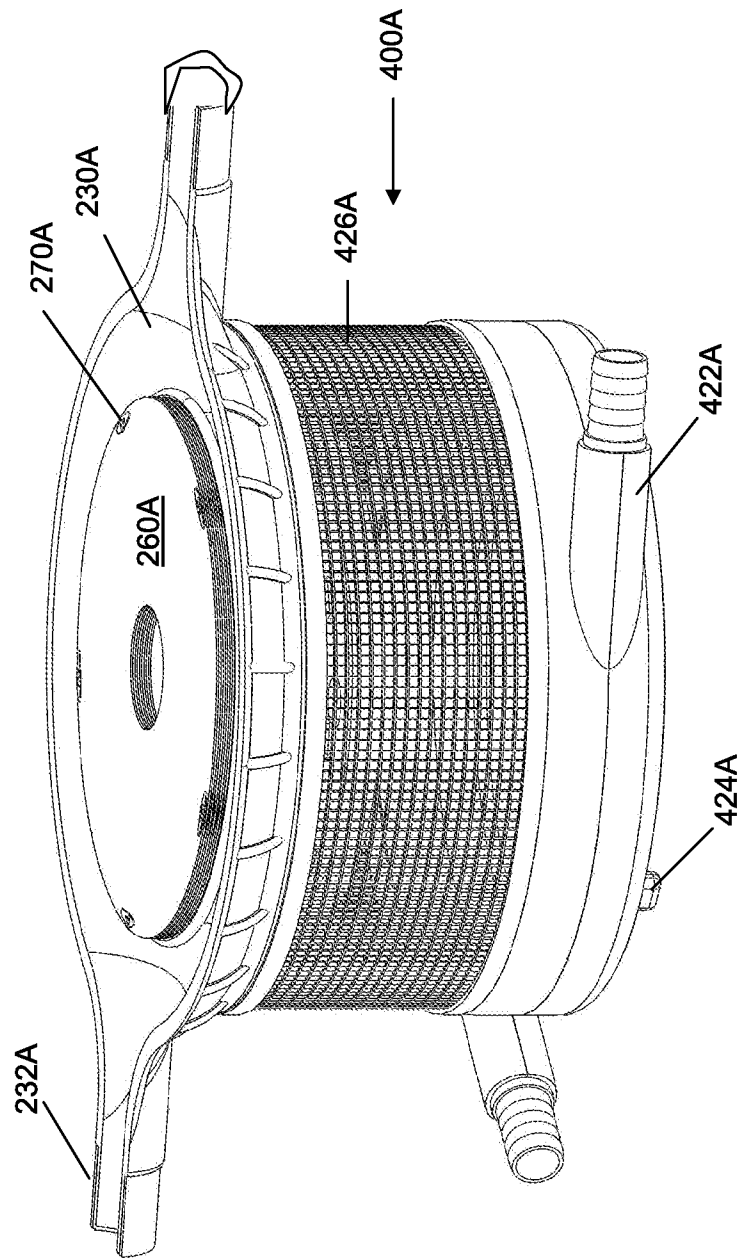


FIG. 15

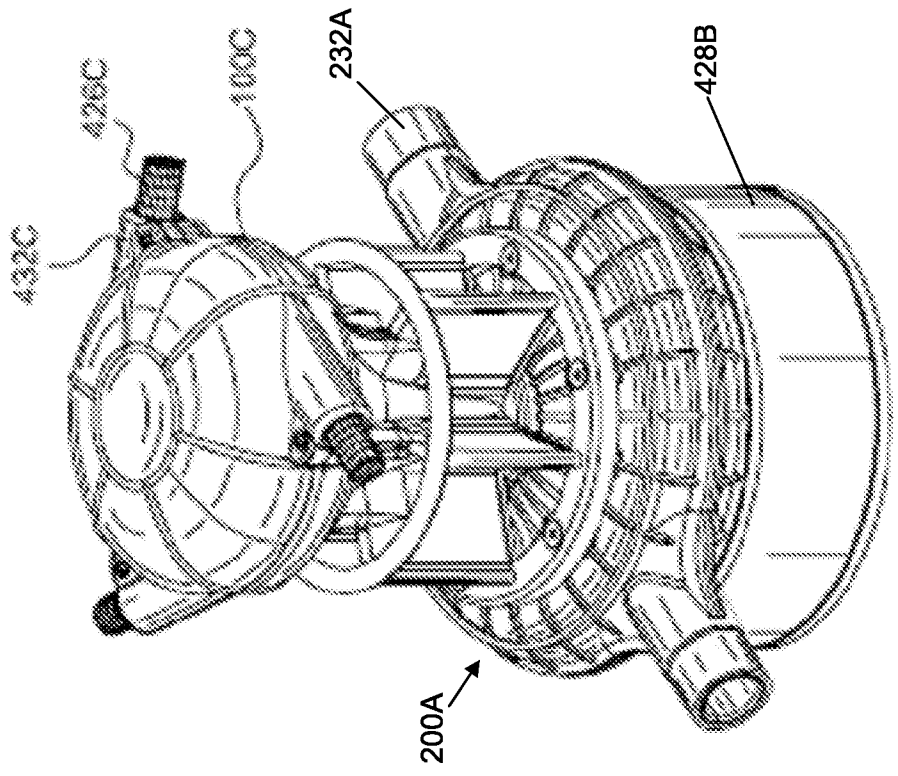


FIG. 17

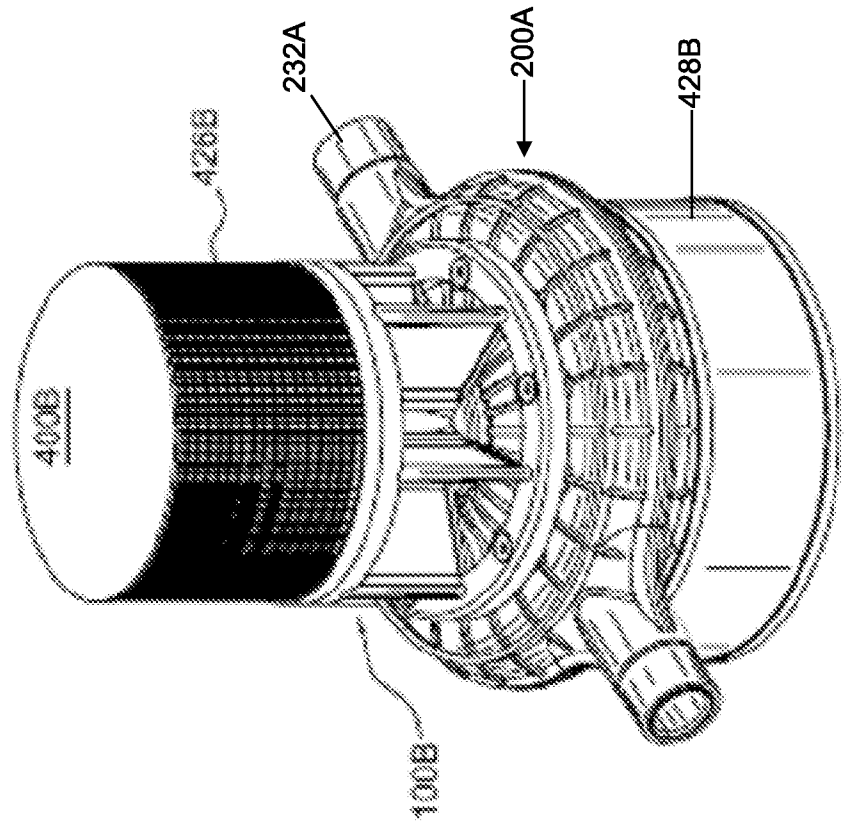


FIG. 16

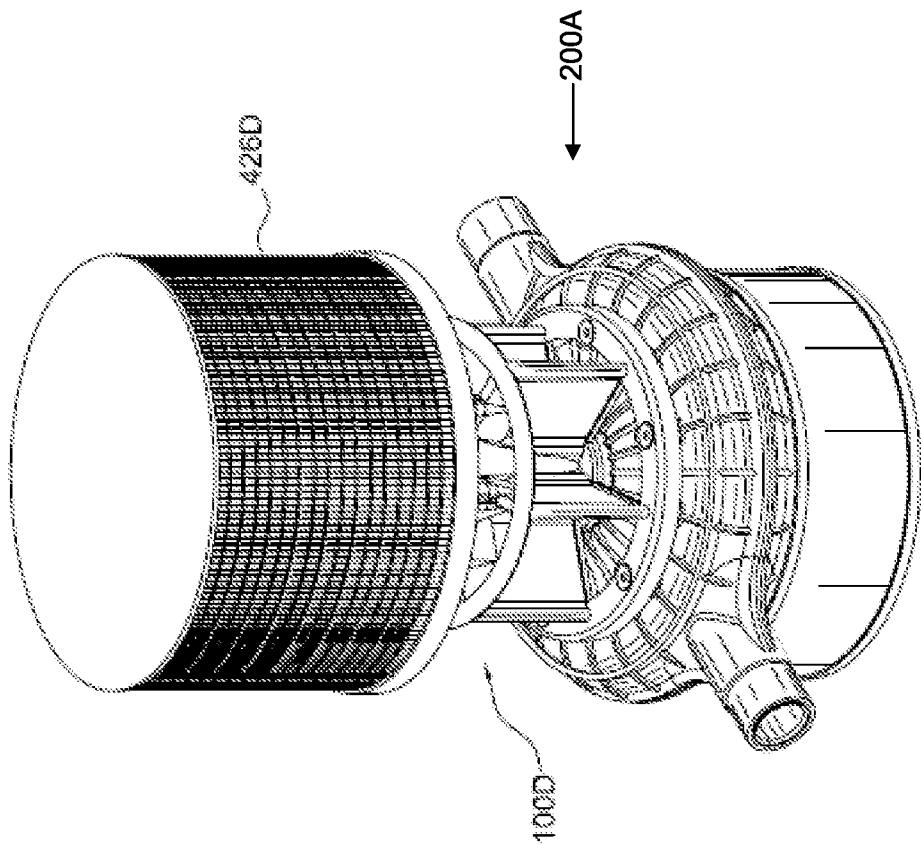


FIG. 18

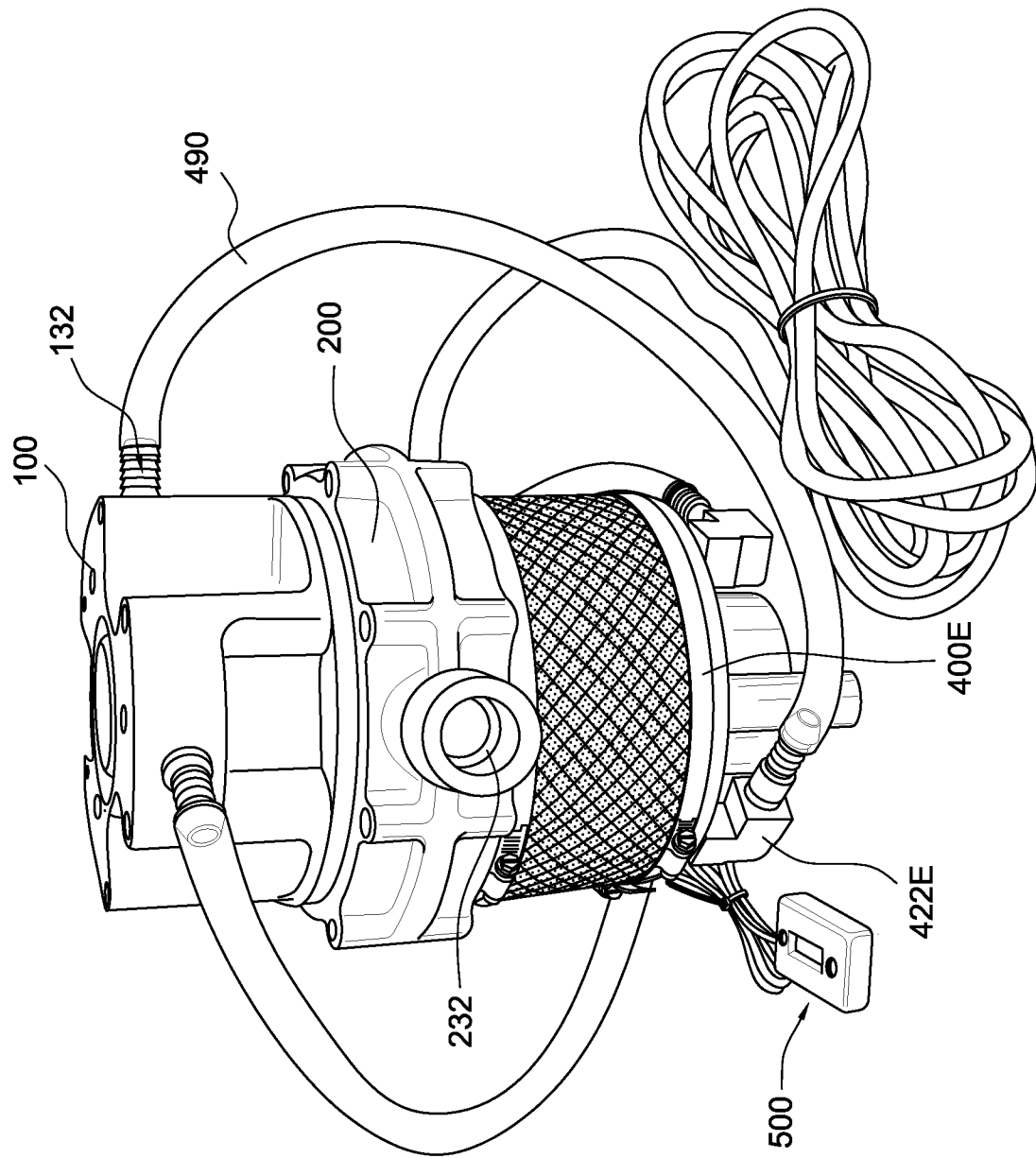


FIG. 19

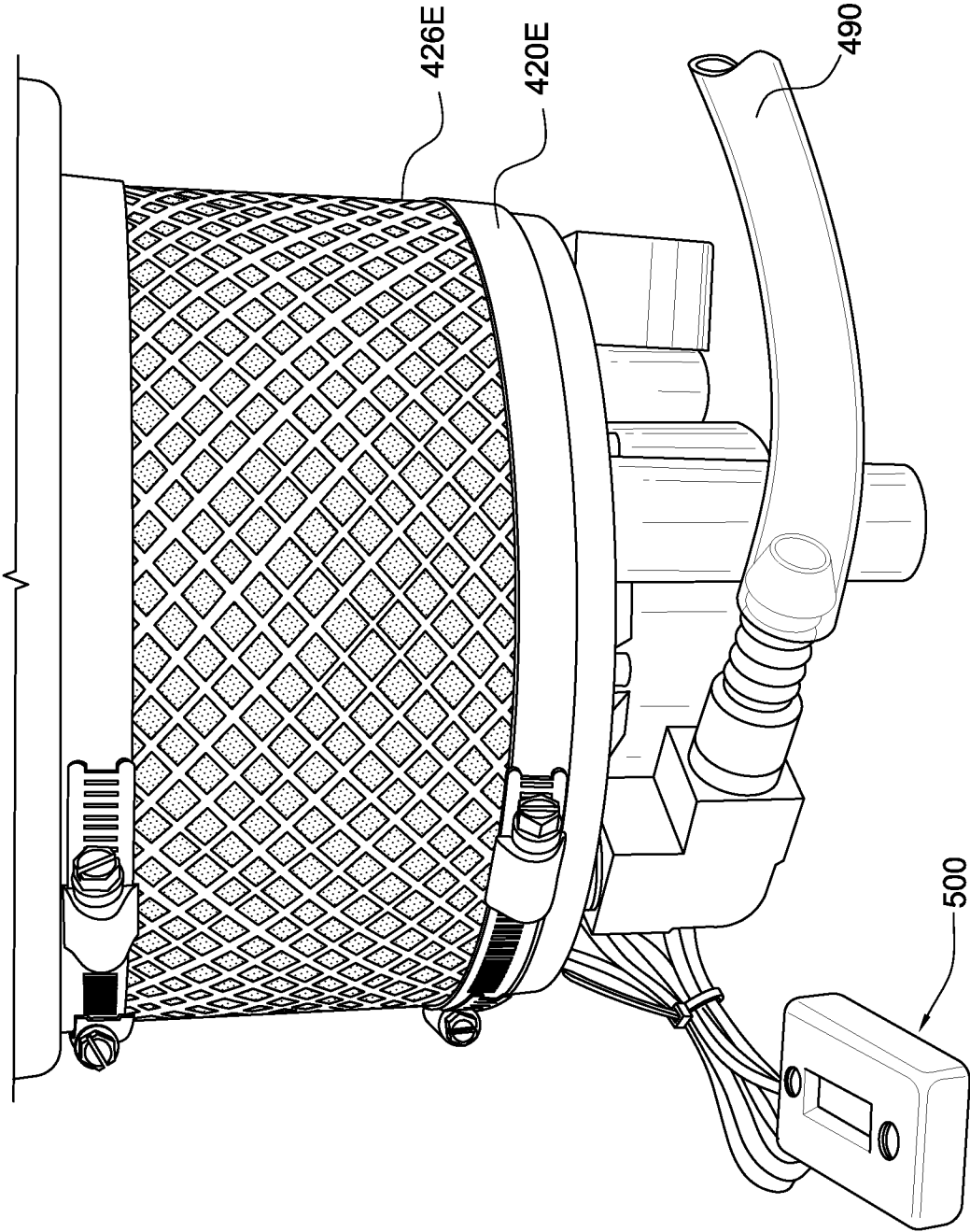


FIG. 20

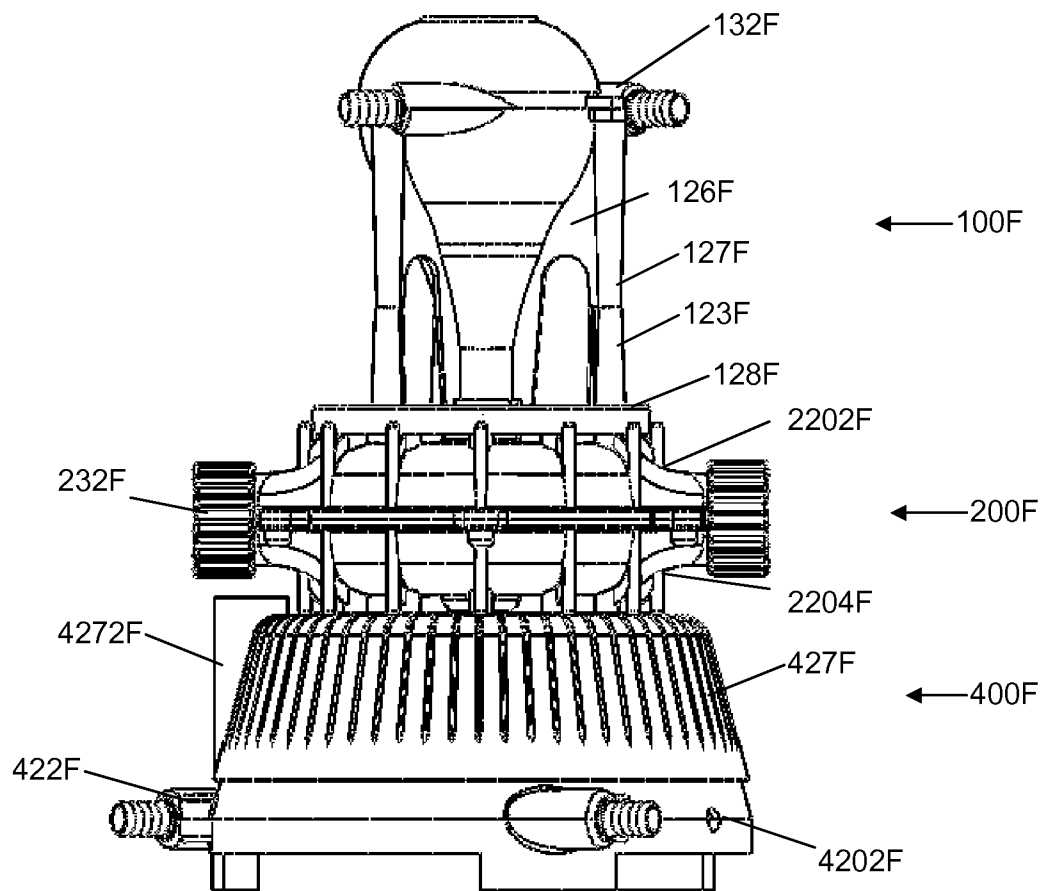


FIG. 21

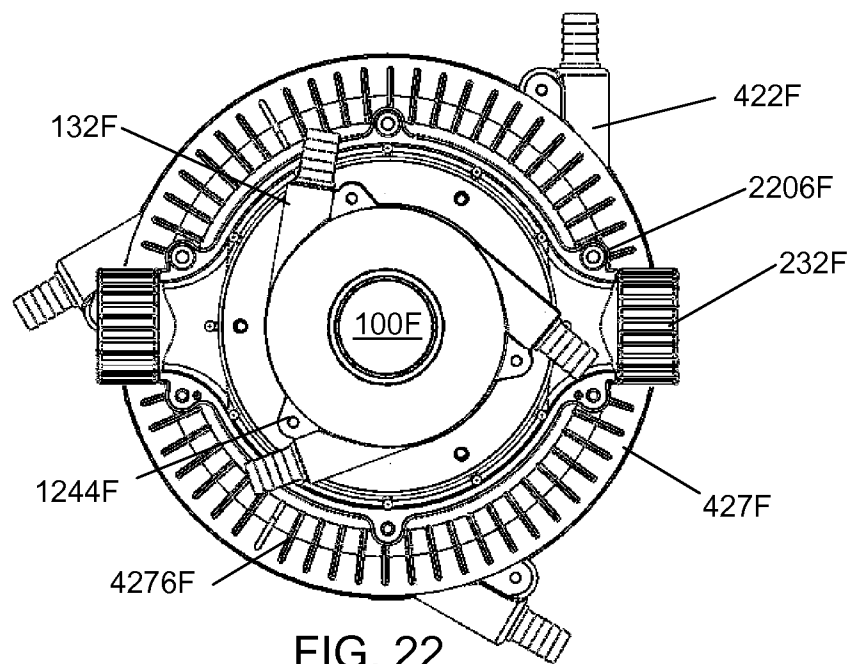


FIG. 22

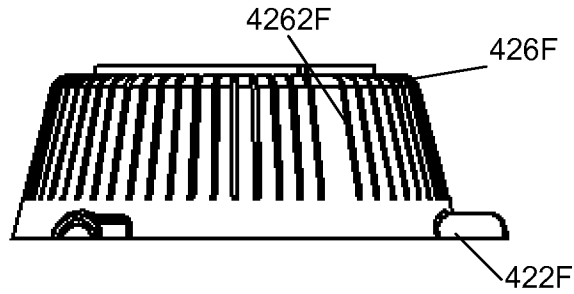


FIG. 23A

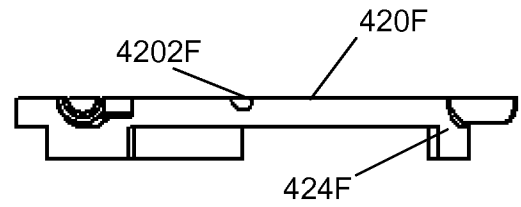


FIG. 23B

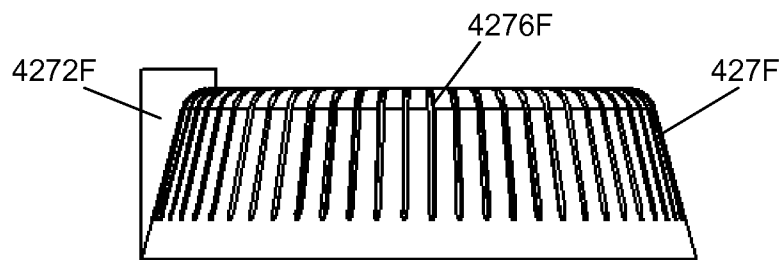


FIG. 23C

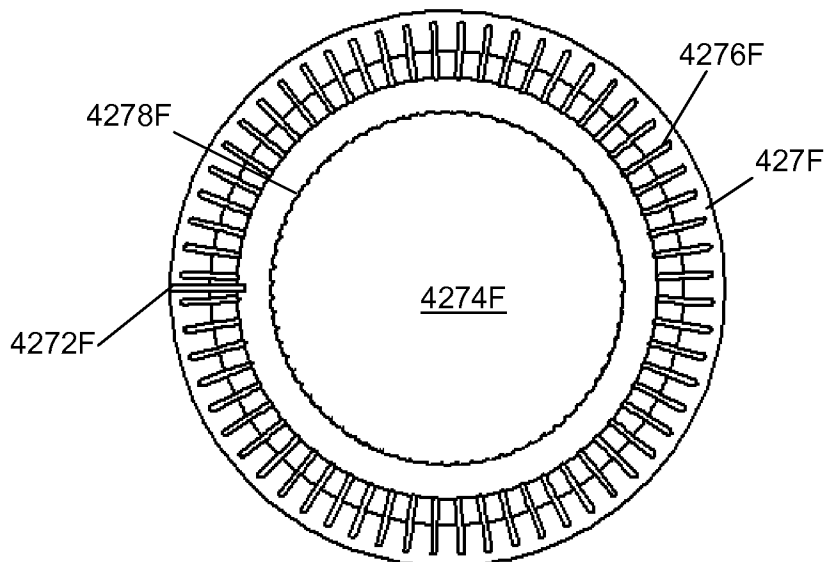


FIG. 23D

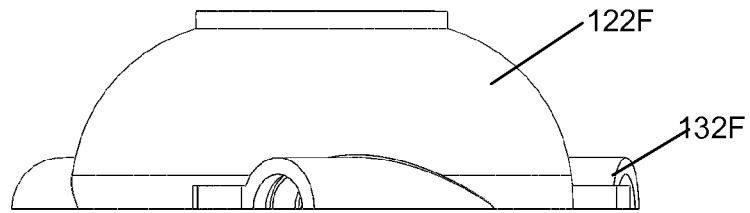


FIG. 24A

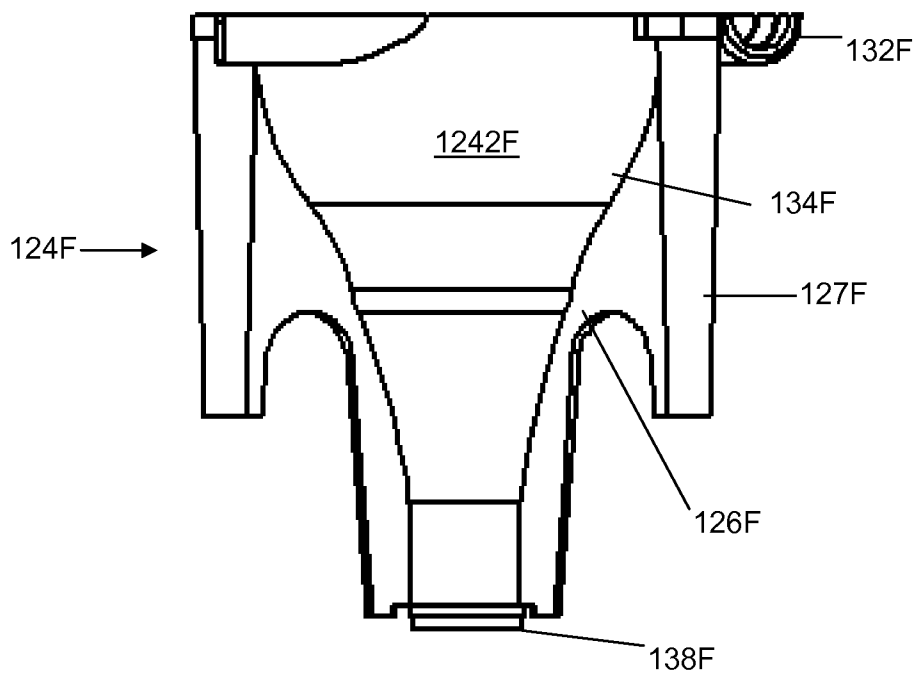


FIG. 24B

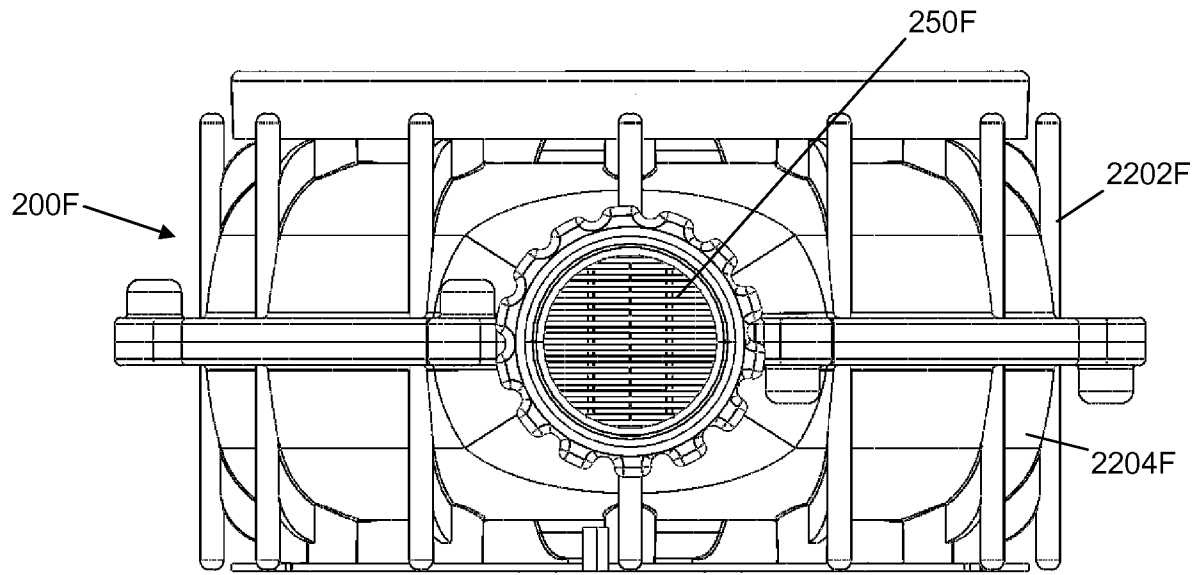


FIG. 25A

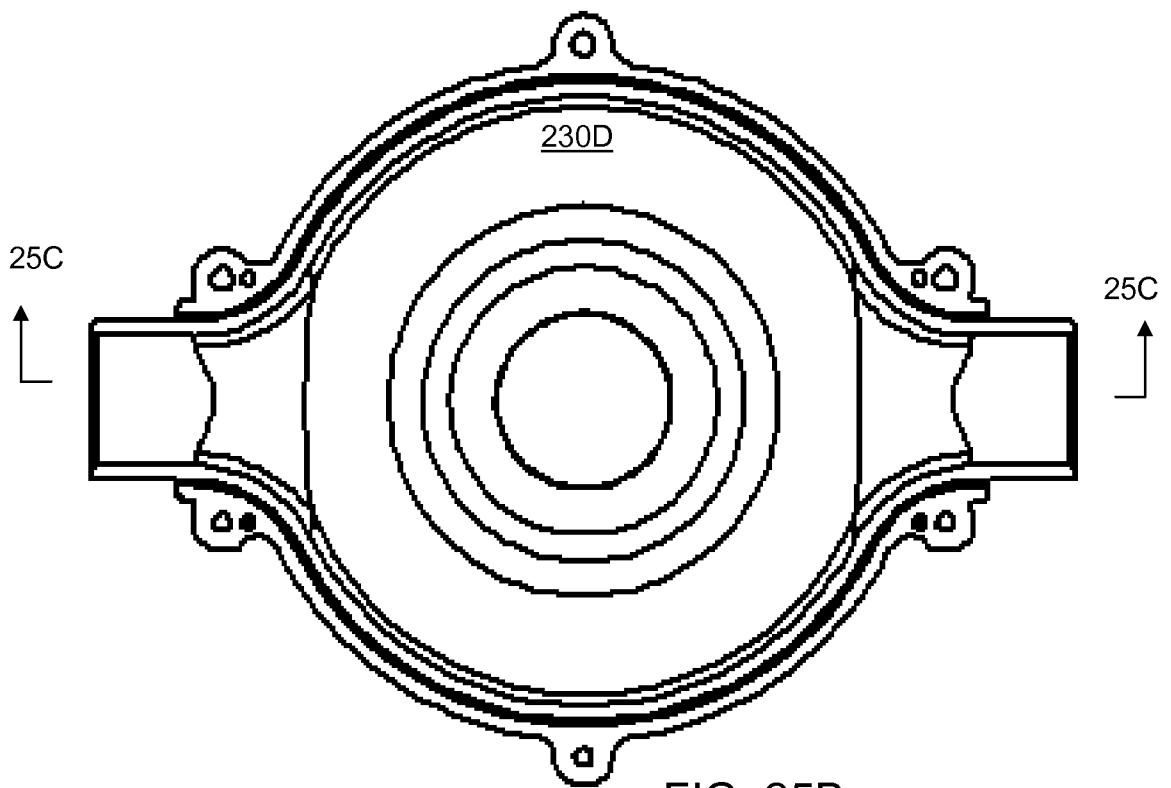


FIG. 25B

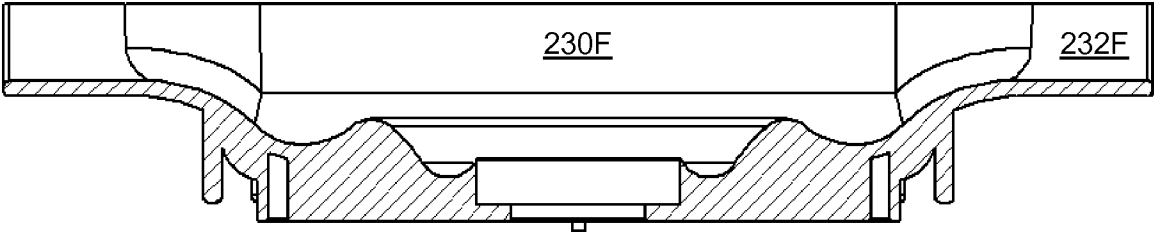


FIG. 25C

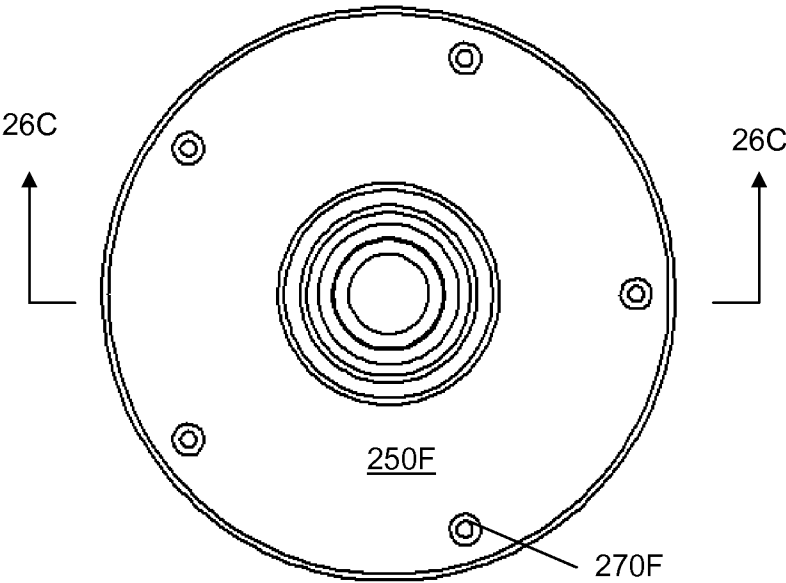


FIG. 26A

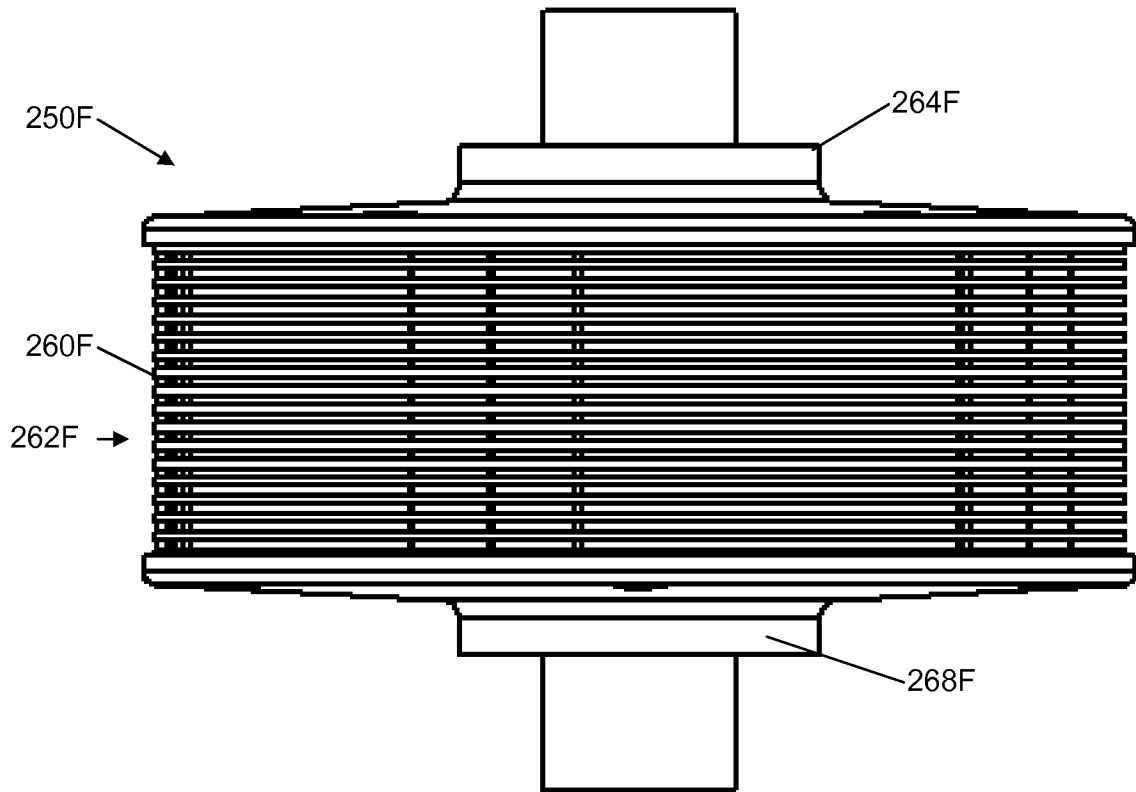


FIG. 26B

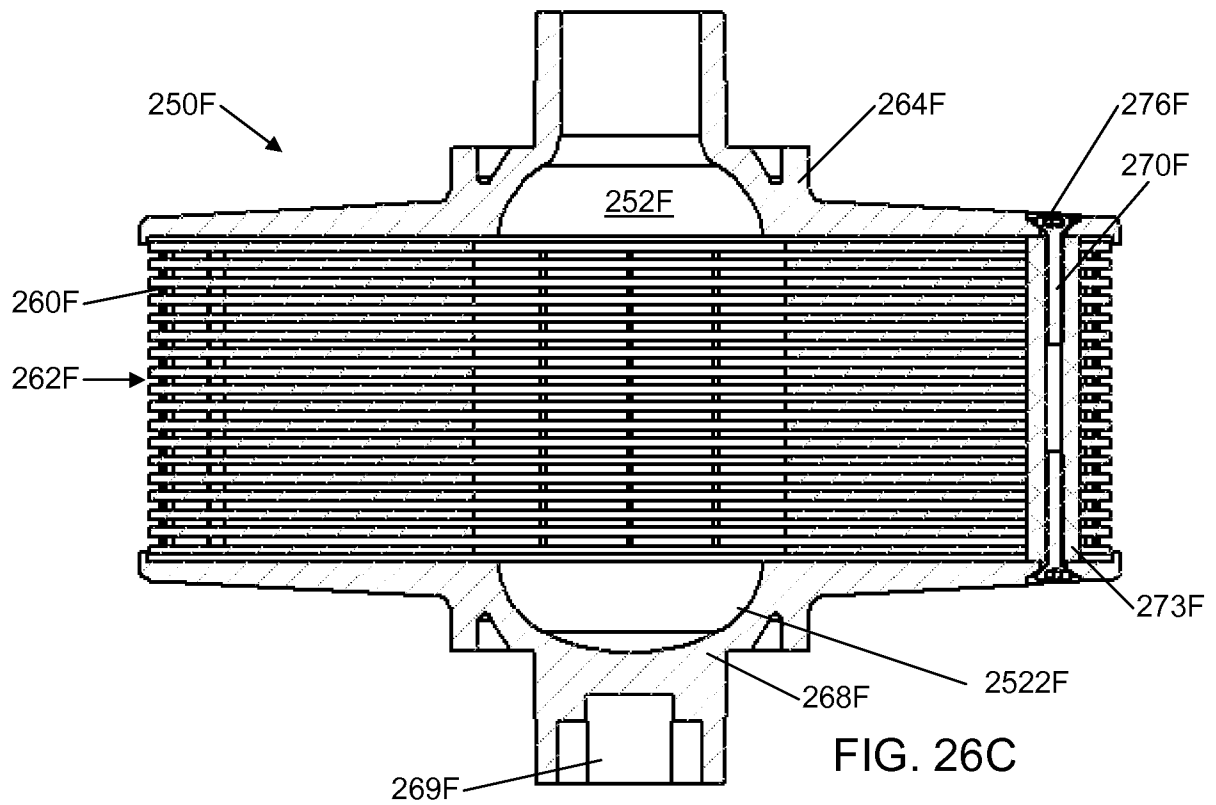


FIG. 26C

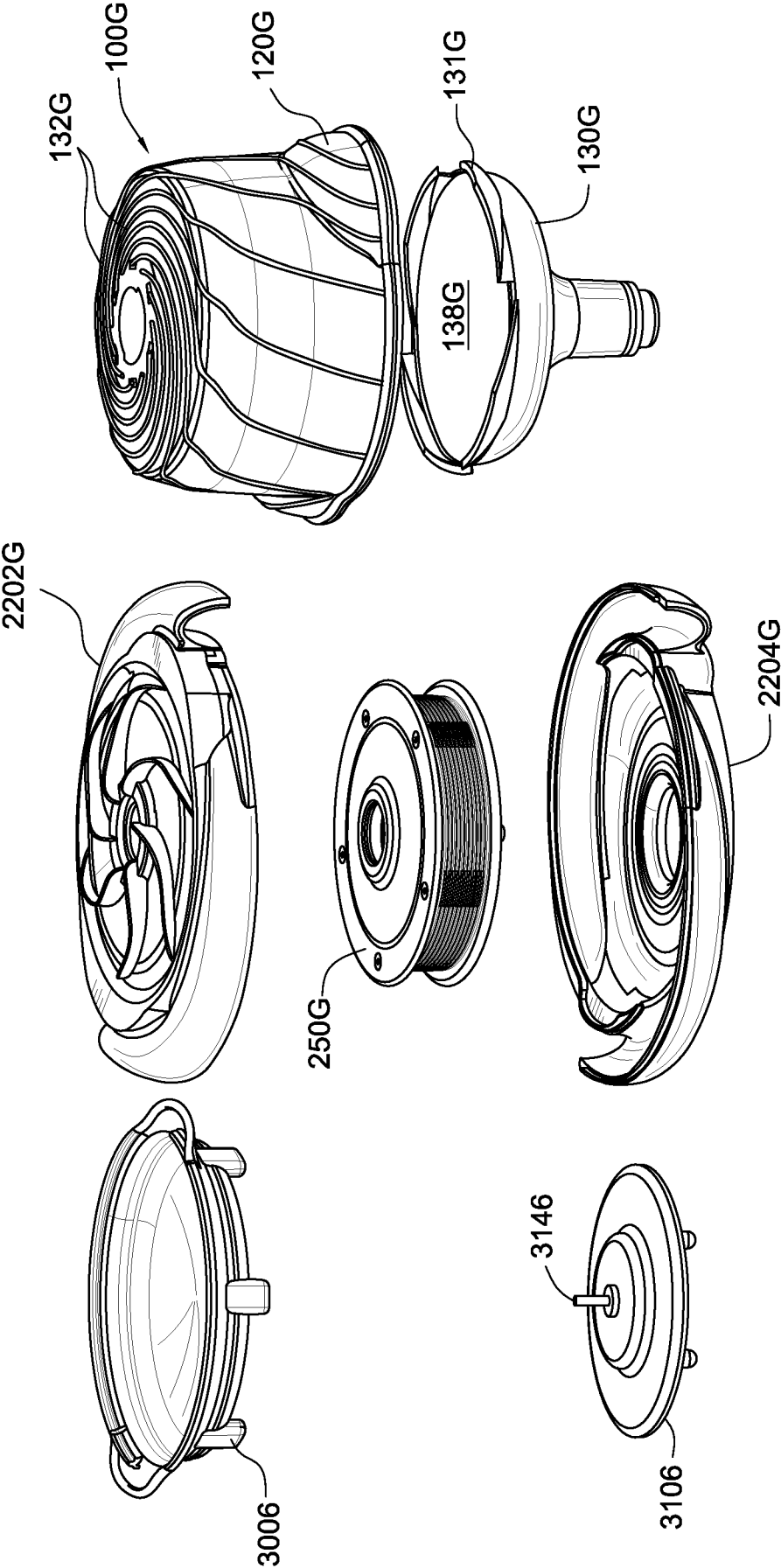


FIG. 27A

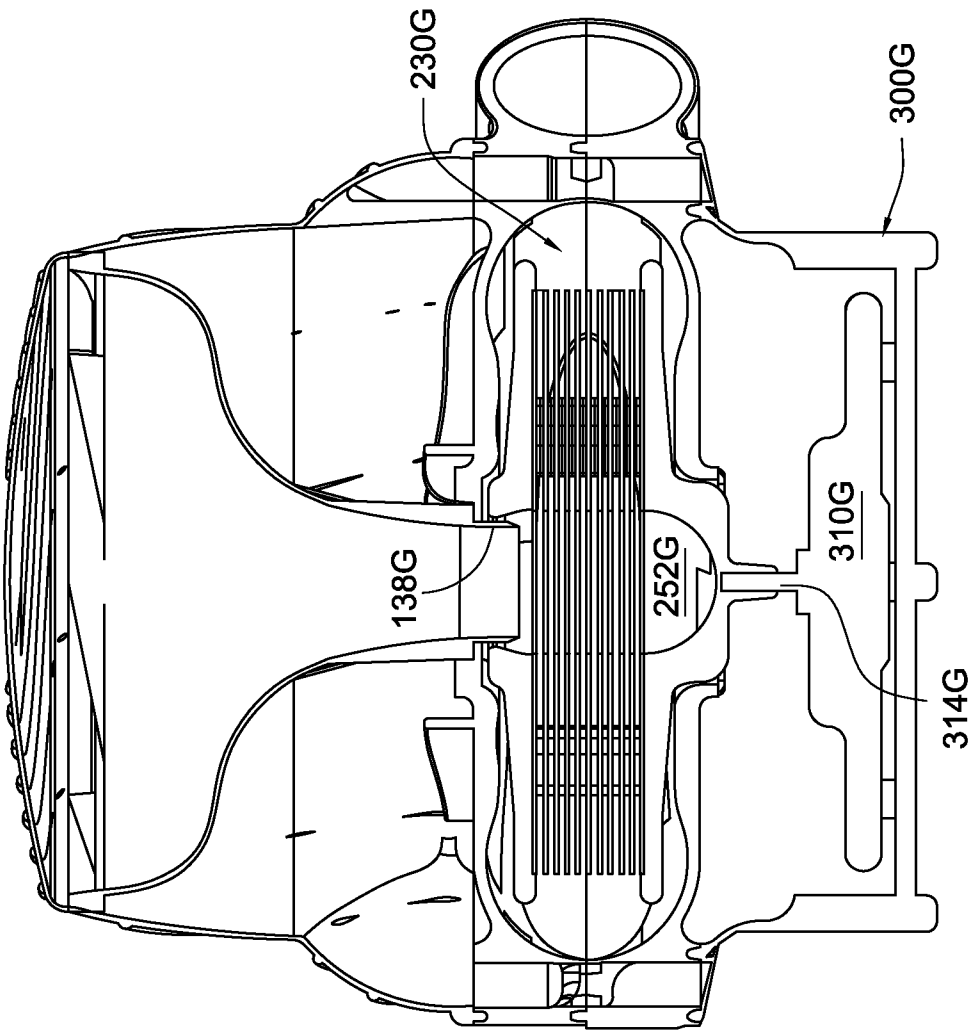


FIG. 27B

23/37

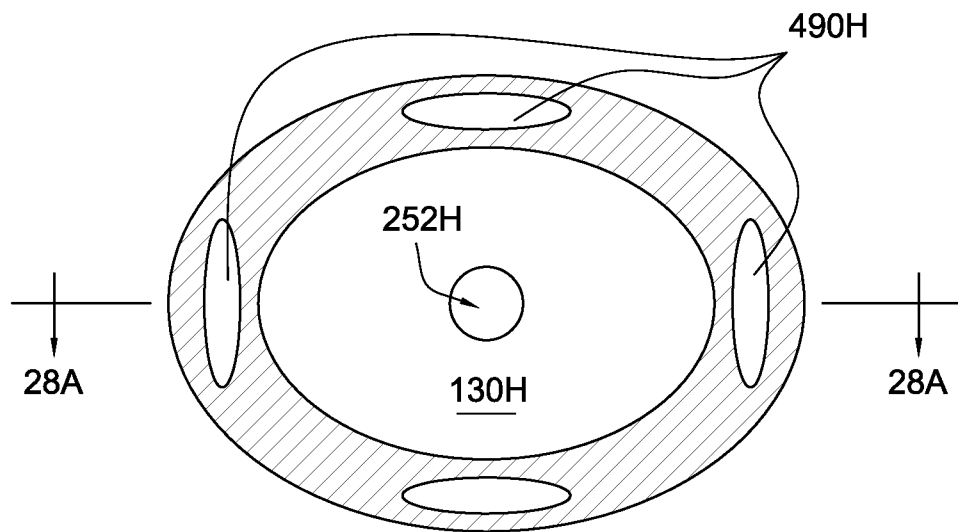


FIG. 28B

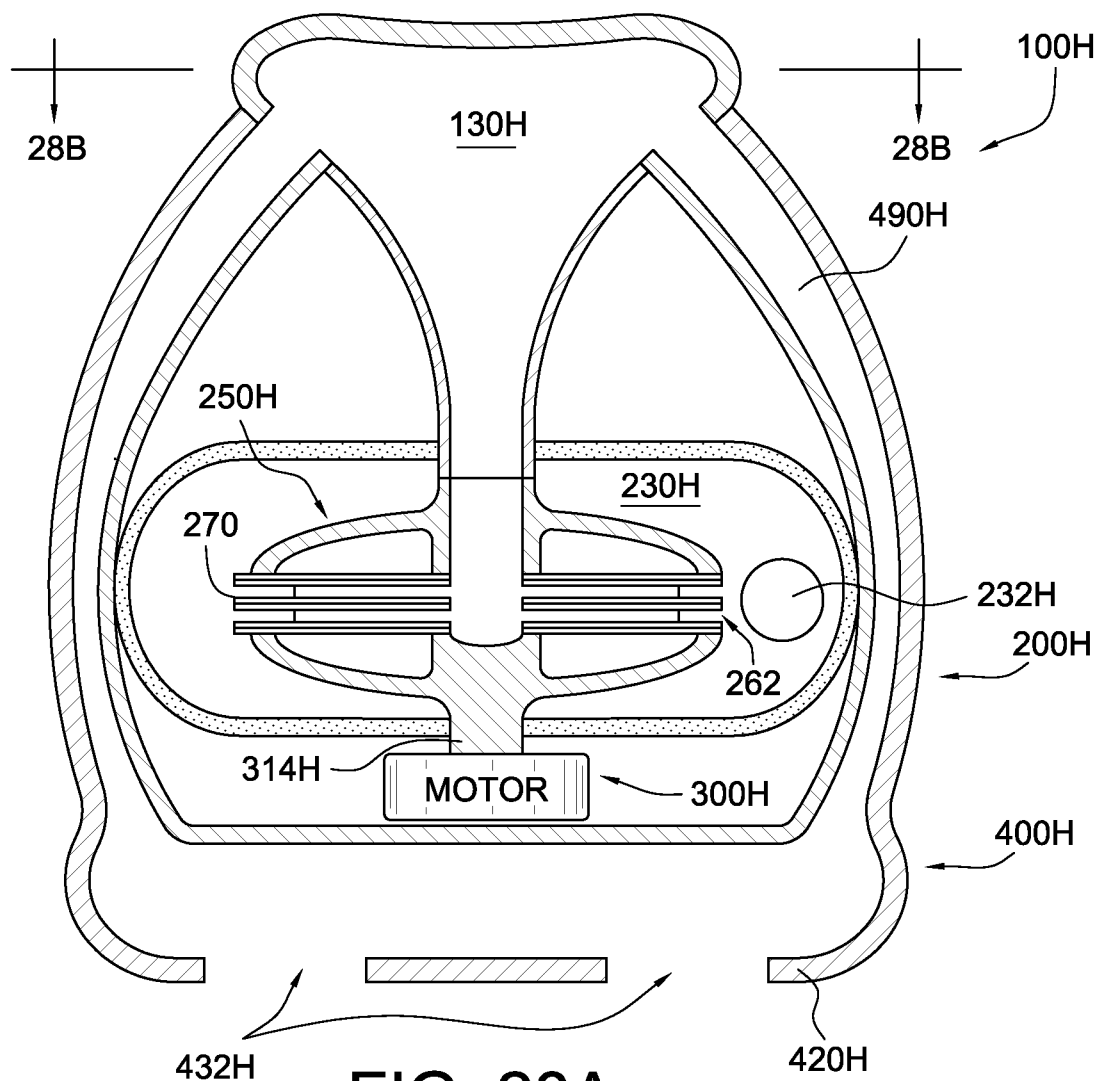


FIG. 28A

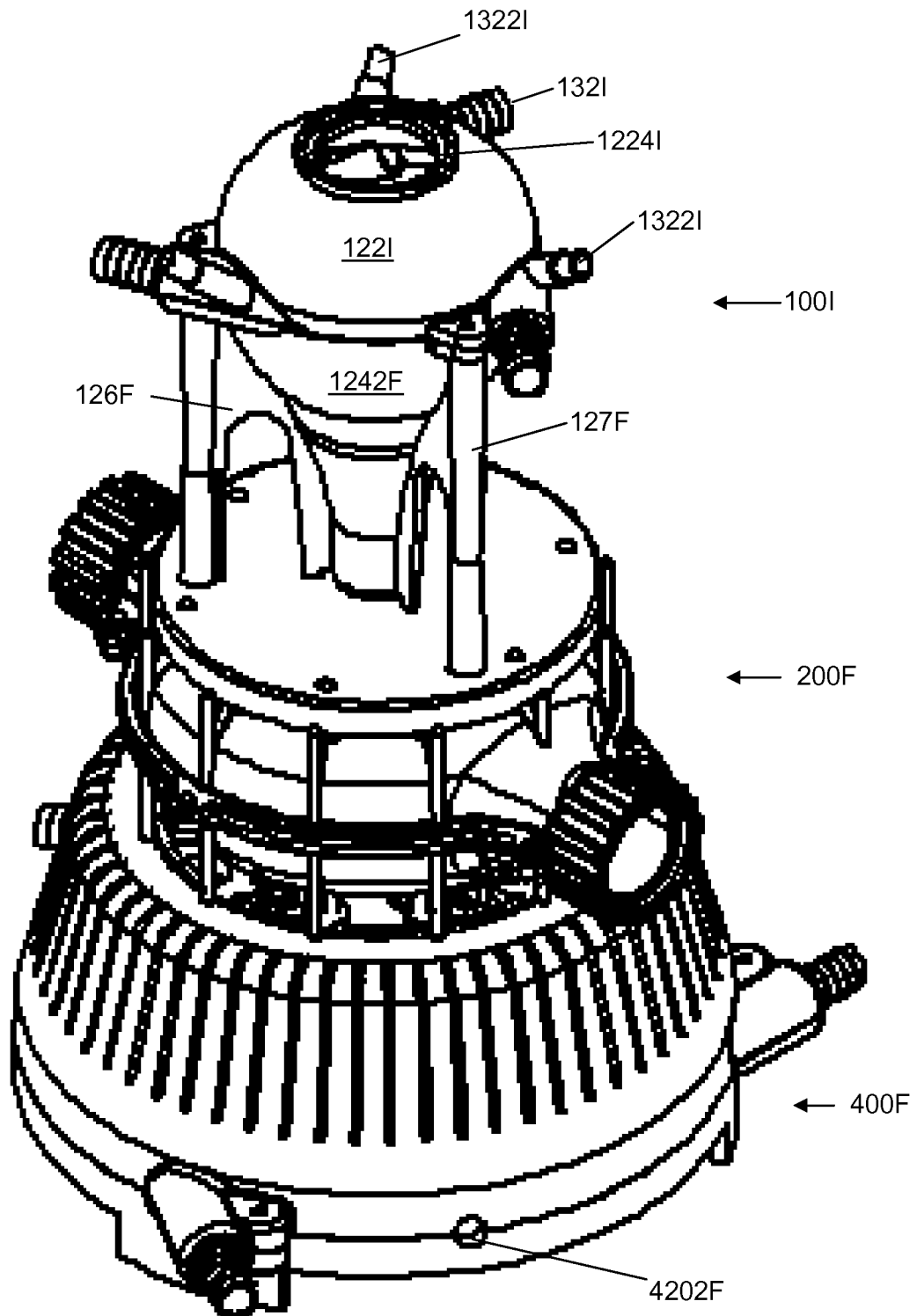


FIG. 29

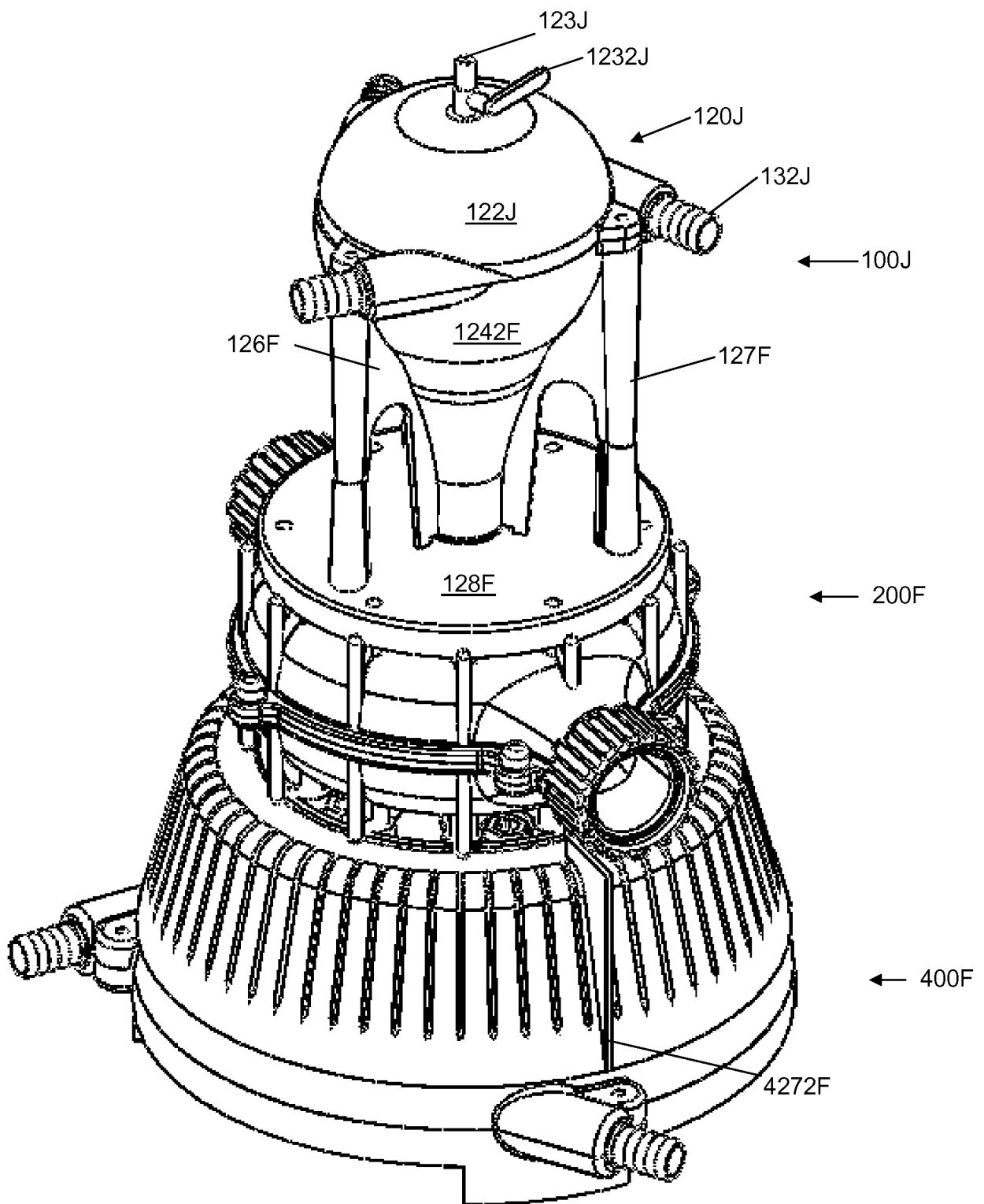


FIG. 30

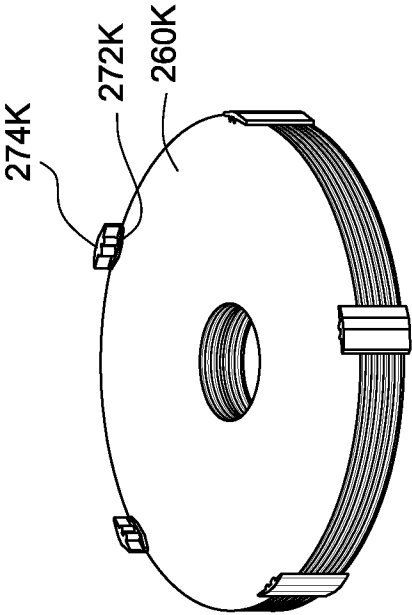


FIG. 31A

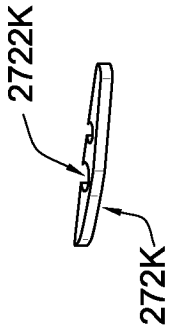


FIG. 31B

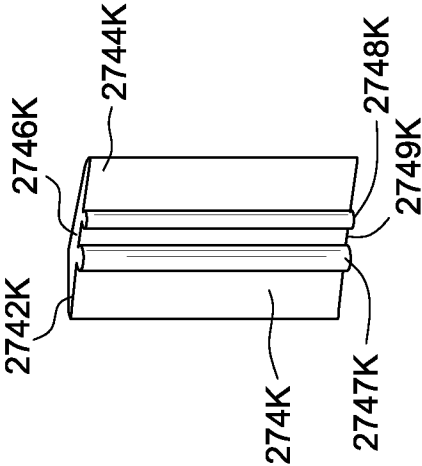


FIG. 31C

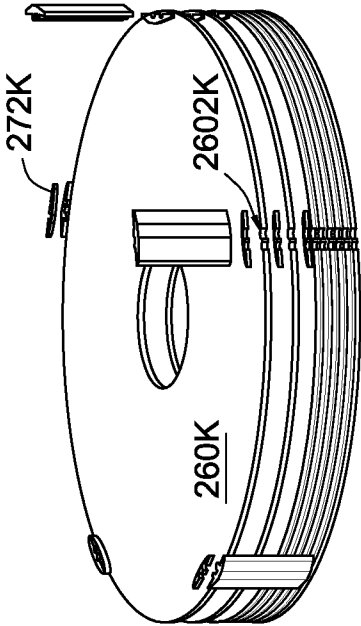


FIG. 31D

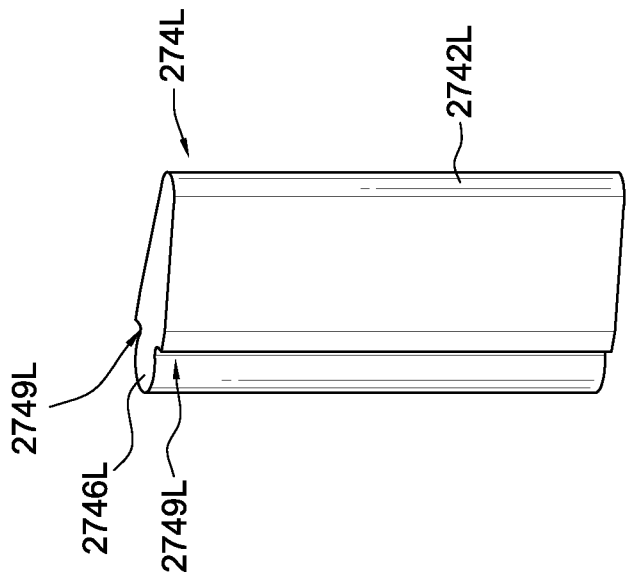


FIG. 32A

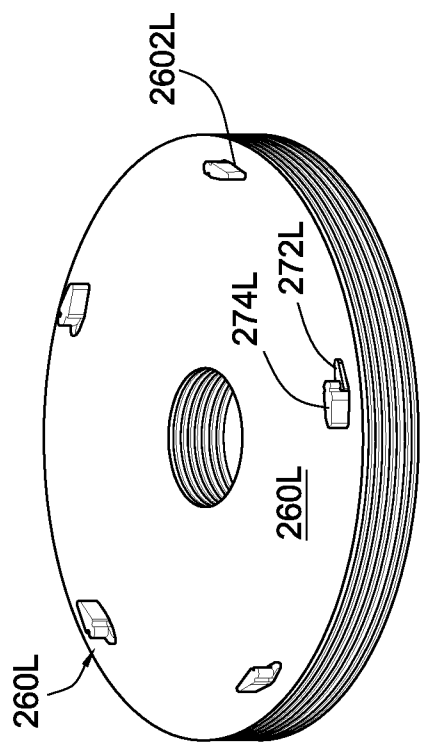


FIG. 32C

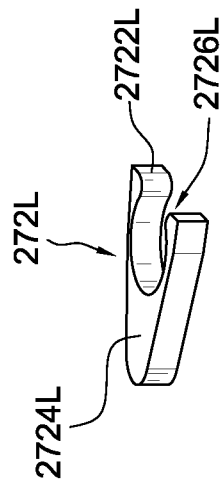


FIG. 32B

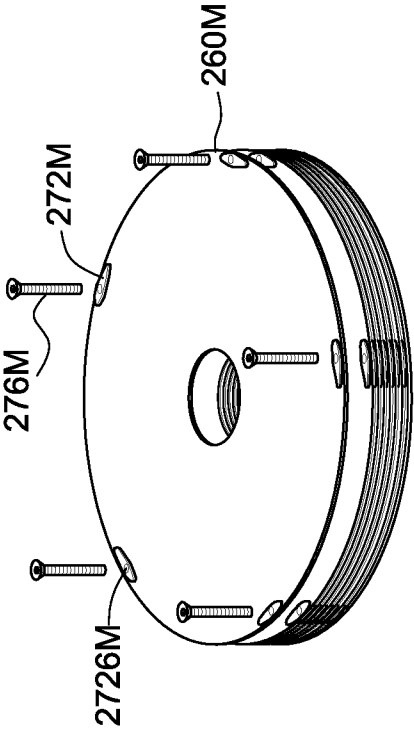


FIG. 33A

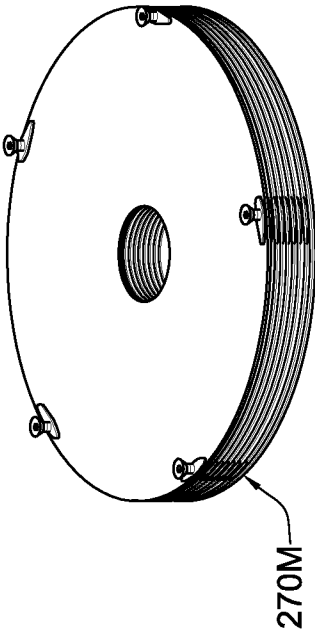


FIG. 33B

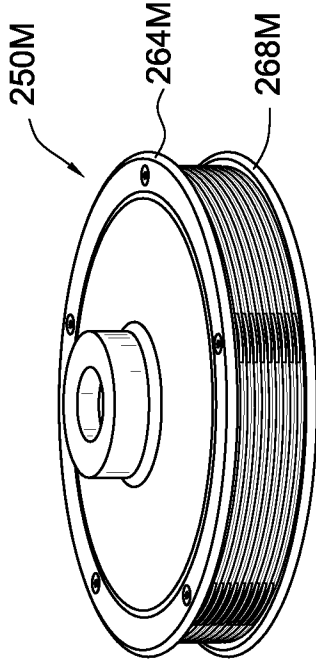


FIG. 33C

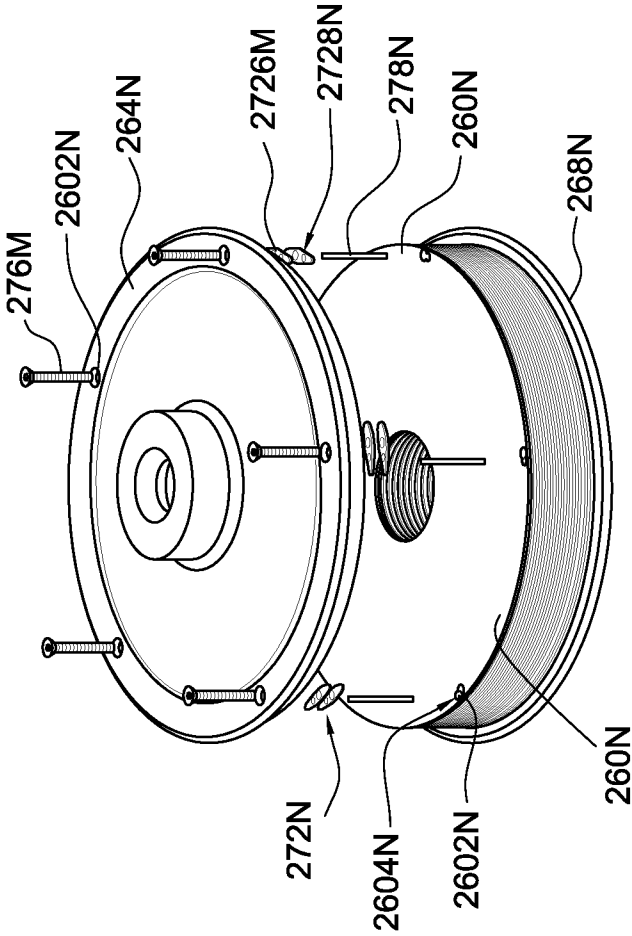


FIG. 34

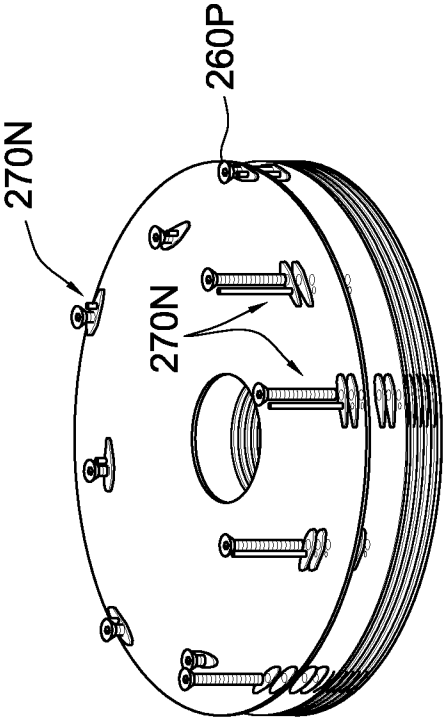


FIG. 35

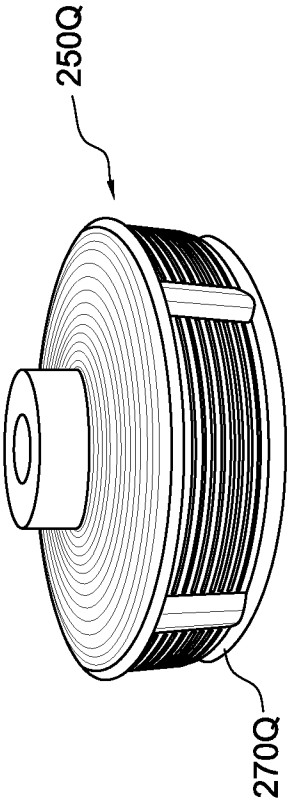


FIG. 36

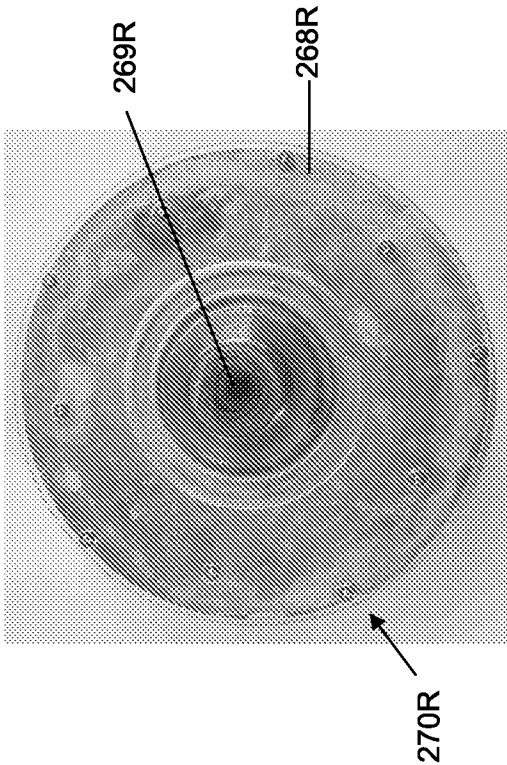


FIG. 37C

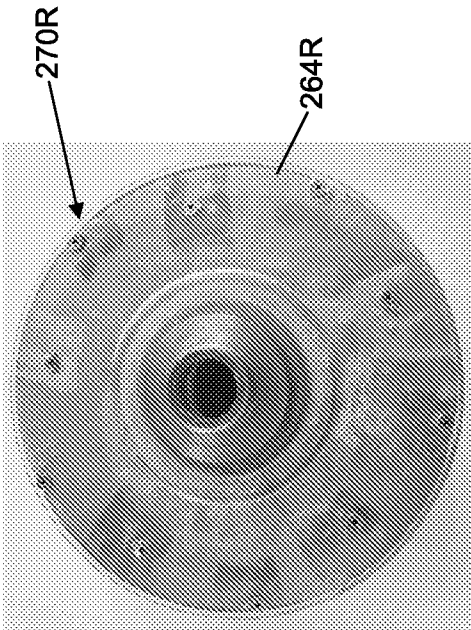


FIG. 37B

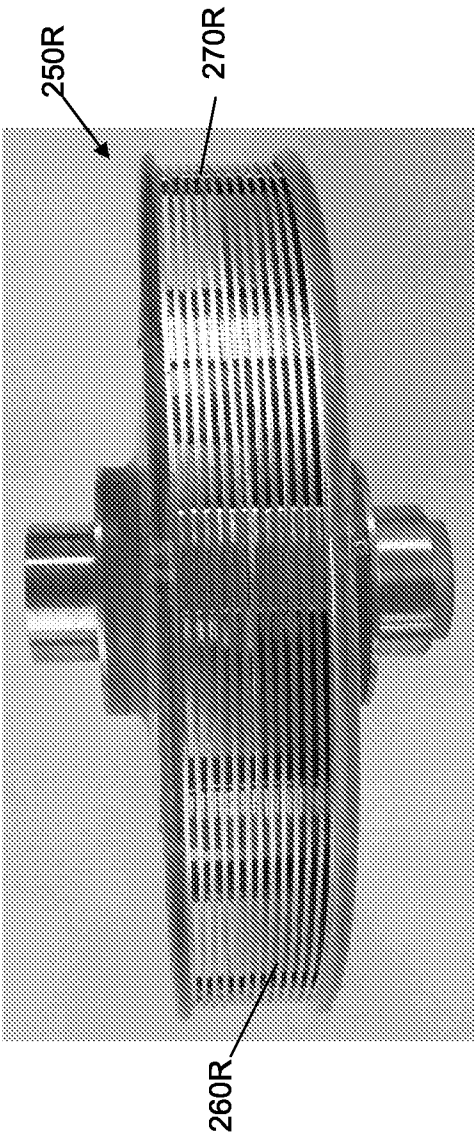


FIG. 37A



FIG. 38B

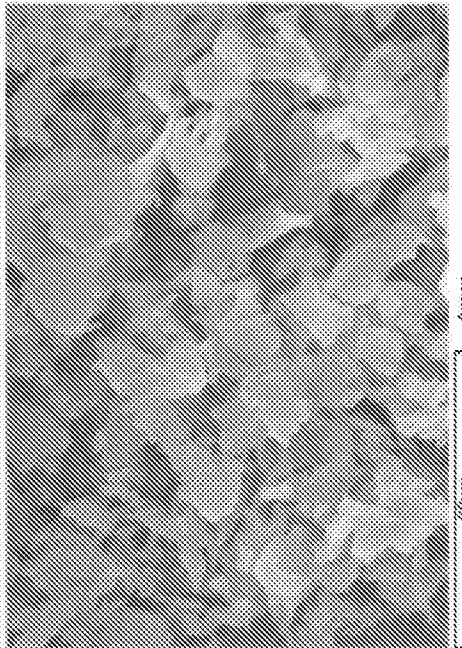


FIG. 38A

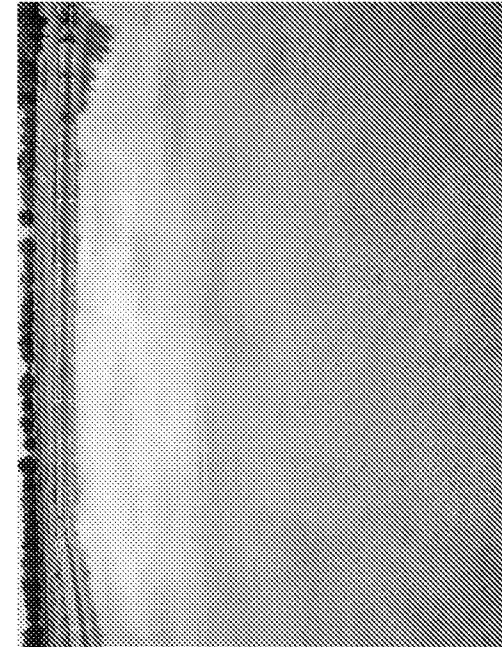


FIG. 39A



FIG. 39B



FIG. 39C



FIG. 40B

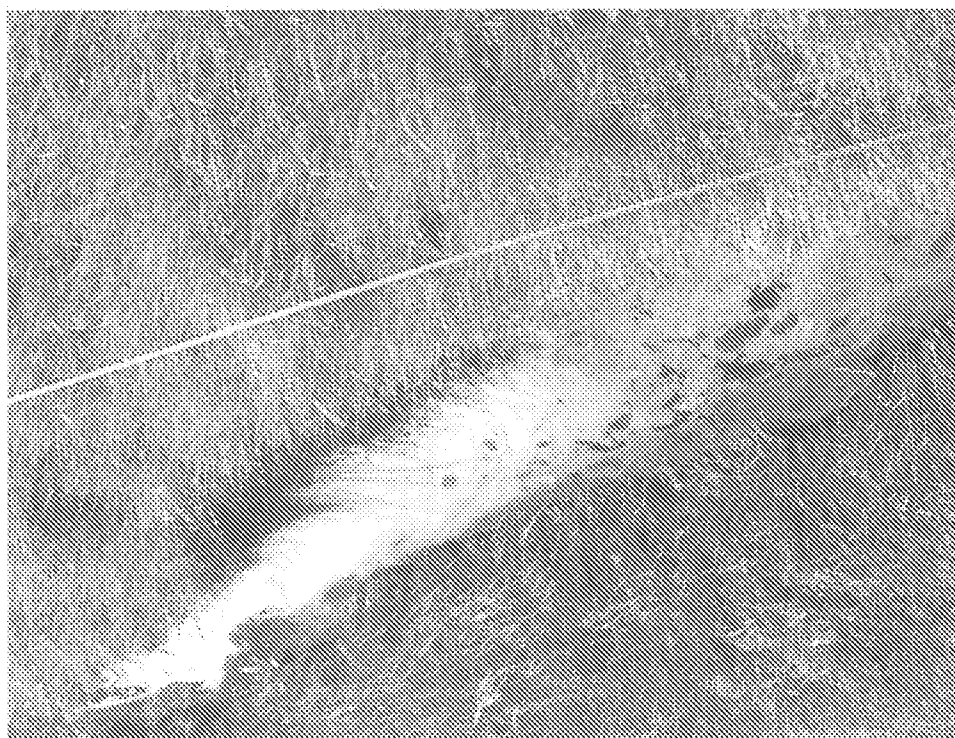


FIG. 40A

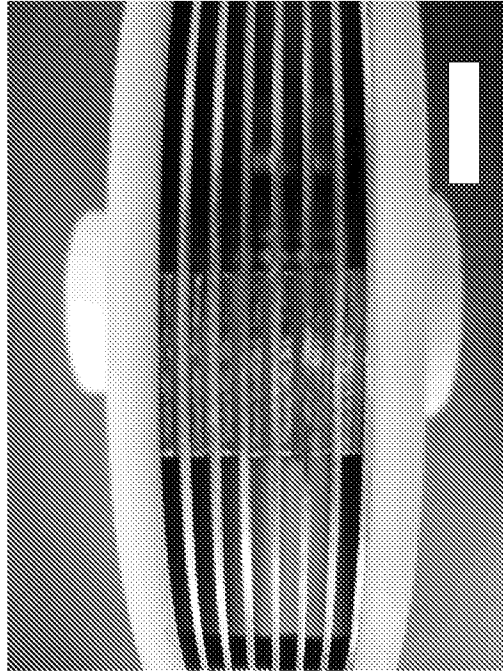


FIG. 41



FIG. 40C

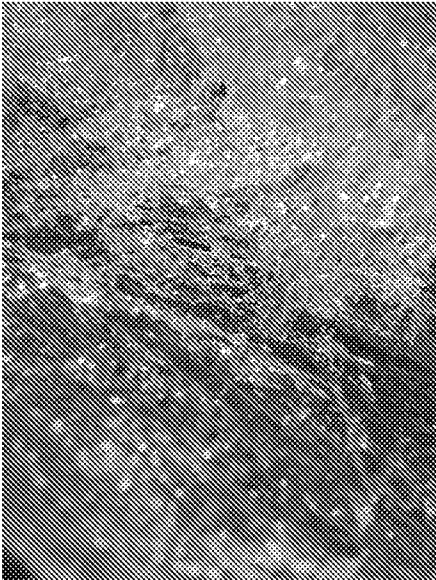


FIG. 42B

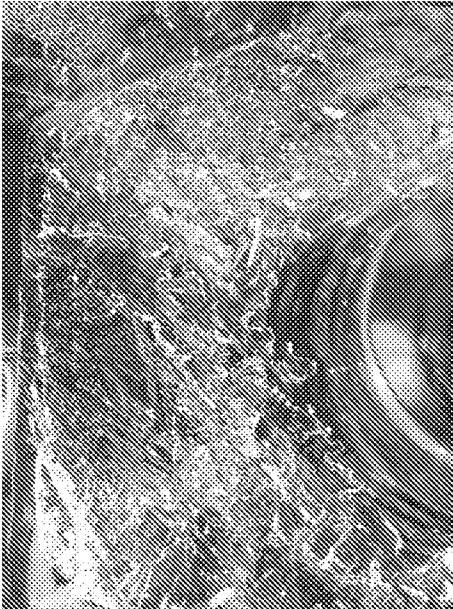


FIG. 42D

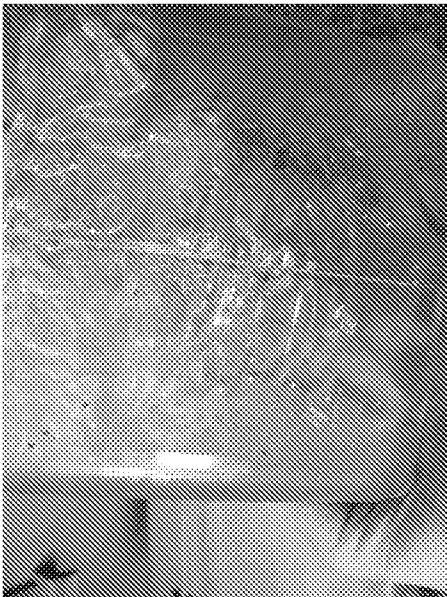


FIG. 42A

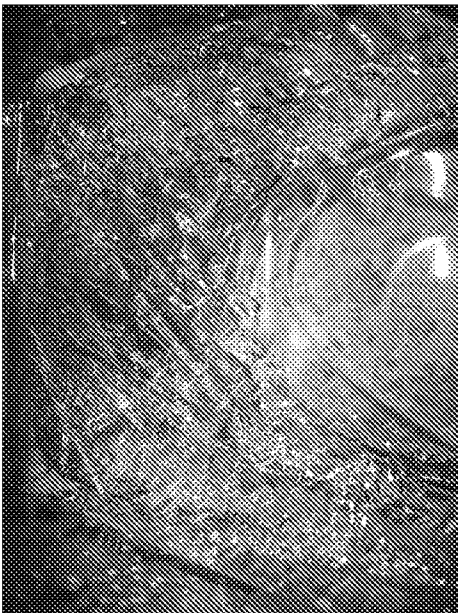


FIG. 42C

TESTS PERFORMED BY INSTITUTO POLITECNICO NACIONAL									
WATER SOURCE: CENTRAL PATIO FOUNTAIN, CONTAMINATED AND ALGAE INFESTED									
LOCATION: ZOUKUPAN, MICHOACAN, MEXICO									
PARAMETER	MAY 1941			AFTER 2 HOURS OF TREATMENT			AFTER 4 HOURS OF TREATMENT		
	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 1	SAMPLE 2	SAMPLE 3
PH	8.9			9			9		
ELECTRIC CONDUCTIVITY	500			500			500		
TOTAL DISSOLVED SOLIDS	260			260			260		
TOTAL HARDNESS	1099.90			1020.53			1020.84		
CHLORIDES	0.1			0.1			0.1		
AMMONIA NITRATES	N.D.			N.D.			N.D.		
SULFATES	8.4			4			3.9		
CADMIUM	N.D.			N.D.			N.D.		
COPPER	N.D.			N.D.			N.D.		
IRON	N.D.			N.D.			N.D.		
MANGANESE	N.D.			N.D.			N.D.		
LEAD	N.D.			N.D.			N.D.		
POTASSIUM	7.7			6.7			5.1		
SODIUM	55.6			54.8			54.2		
ZINC	N.D.			N.D.			N.D.		
TOTAL COLIFORMS	2,200,000	1,200,000	1,200,000	3,300,000	2,300,000	2,300,000	1,300	1,300	9,000
FECAL COLIFORMS	270,000	370,000	280,000	9,000	7,000	4,300	110	210	110
E. COLI	POSITIVE	POSITIVE	POSITIVE	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
NOJES	400	840	380	400	400	300	10	20	10
CLOSTRIDIUM SP	POSITIVE	POSITIVE	POSITIVE	POSITIVE	POSITIVE	POSITIVE	NEGATIVE	NEGATIVE	NEGATIVE
ALGAE	180	185	180	300	370	360	10	20	33
HELMINT EGGS	POSITIVE	POSITIVE	POSITIVE	POSITIVE	POSITIVE	POSITIVE	NEGATIVE	NEGATIVE	NEGATIVE
N.D. NOT DETECTED									
UNITS OF MEASUREMENT METHODOLOGY									
									ml/mes/cm
									mg/l (as CaCO ₃)
									grammeter
									EDTA
									Argentometric
									KJEDAL
									turbidity
									atomic absorption
									atomic absorption
									atomic absorption
									atomic absorption
									atomic absorption
									atomic absorption
									NOM-112-55A1-94
									NOM-112-55A1-94
									NOM-113-55A1-94
									isolation
									Set-Wick-Rafter
									NOM-003E00-1997

FIG. 43

TESTS PERFORMED BY INSTITUTO POLITECNICO NACIONAL												
WATER SOURCE: IRRIGATION CANAL "VALLEJO DEL REY"												
LOCATION: CAMOERA, MICHOACAN, MEXICO												
PARAMETER	INITIAL			AFTER 2 HOURS OF TREATMENT			AFTER 4 HOURS OF TREATMENT			UNITS OF MEAS/METHODOLOGY		
	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 1	SAMPLE 2	SAMPLE 3			
PH	7.4			7.5			7.5			mmho/cm		
	300			300			300			mg/l		
	50			50			50			mg/l (as CaCO3)		
	614.25			557.13			542.35			grammeter		
	0.1			0.1			0.1			EDTA		
	N.D.			N.D.			N.D.			Argentometric		
	3.7			4.6			4.6			KUMEDAL		
	N.D.			N.D.			N.D.			turbidity		
	N.D.			N.D.			N.D.			atomic absorption		
	2.4			2.4			2.4			atomic absorption		
ELECTRIC CONDUCTIVITY	N.D.			N.D.			N.D.			atomic absorption		
	0.1			0.1			0.1			atomic absorption		
	2.5			1.5			1.5			atomic absorption		
	15			17.9			17.9			atomic absorption		
	0.1			0.1			0.1			atomic absorption		
	71,400,000.00	71,500,000.00	71,400,000.00	2,500,000	2,200,000	2,100,000	55,000	24,000	17,000	NOM-112-SSA1-94		
	2,000,000.00	3,300,000.00	2,200,000.00	210,000	930,000	110,000	240,000	240,000	110,000	NOM-112-SSA1-94		
	POSITIVE	POSITIVE	POSITIVE	POSITIVE	POSITIVE	POSITIVE	ABSENT	ABSENT	ABSENT	NOM-112-SSA1-94		
	1000	4000	5000	720	800	620	200	300	600	NOM-113-SSA1-94		
	POSITIVE	POSITIVE	POSITIVE	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE	NEGATIVE	POSITIVE	nitration		
FECAL COLIFORMS	3500	3700	3000	280	370	300	200	110	30	2nd-4th-5th		
	POSITIVE	POSITIVE	POSITIVE	POSITIVE	POSITIVE	POSITIVE	NEGATIVE	NEGATIVE	NEGATIVE	NOM-003SCOL-1997		
N.D. NOT DETECTED												

FIG. 44