

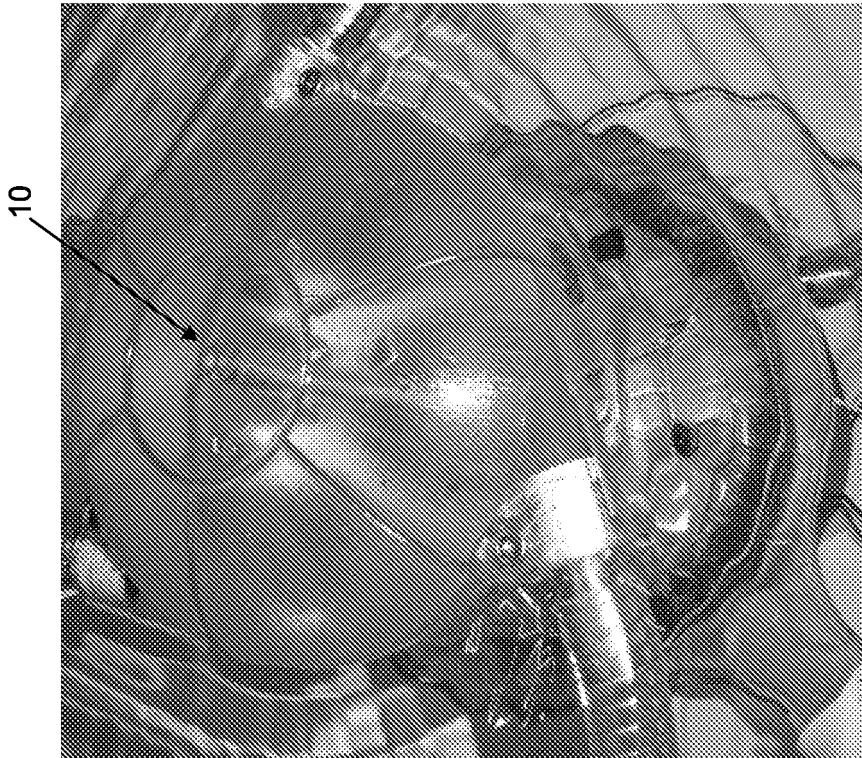


FIG. 1C

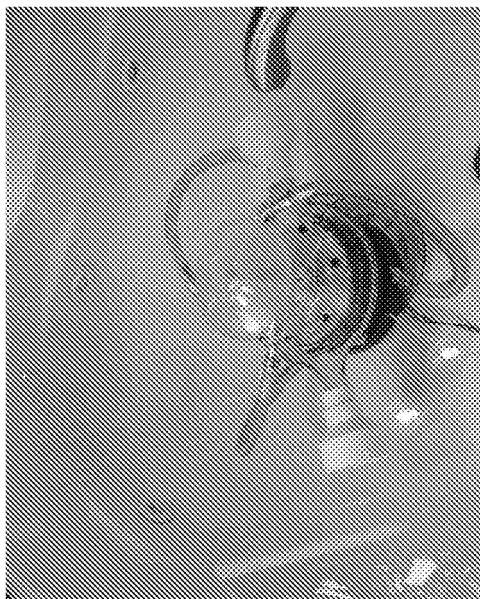
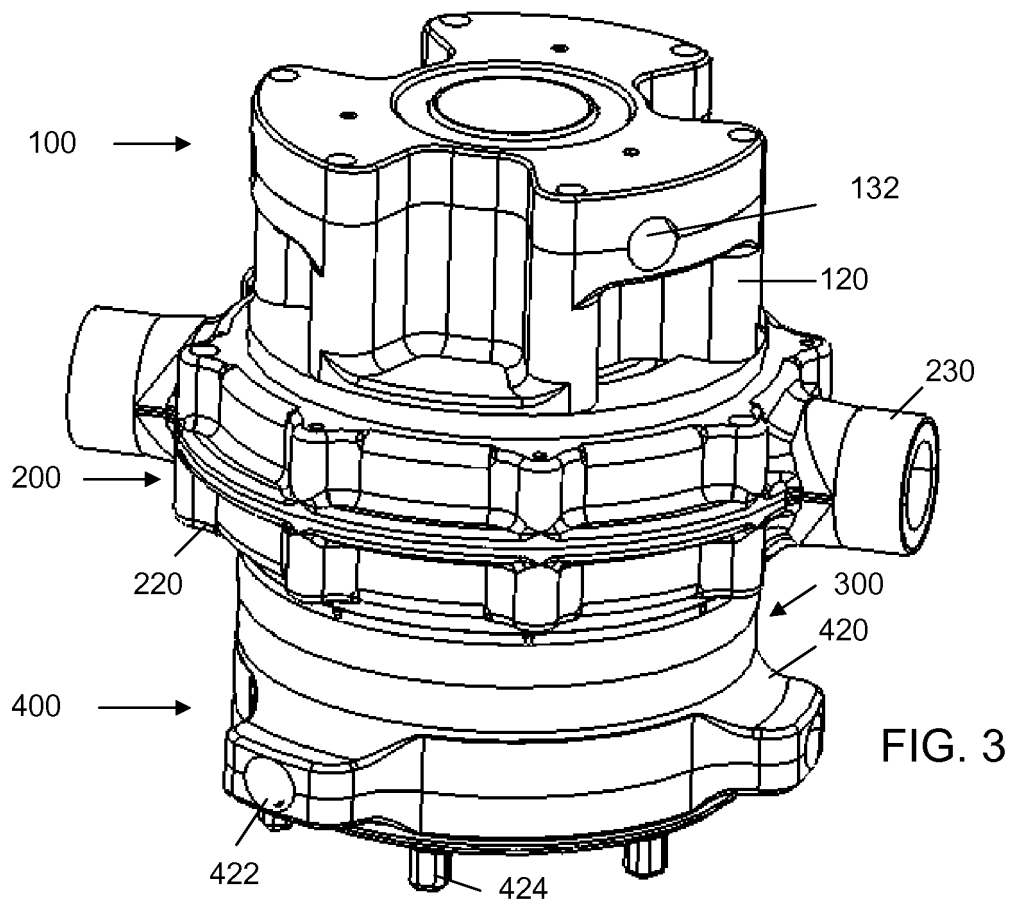
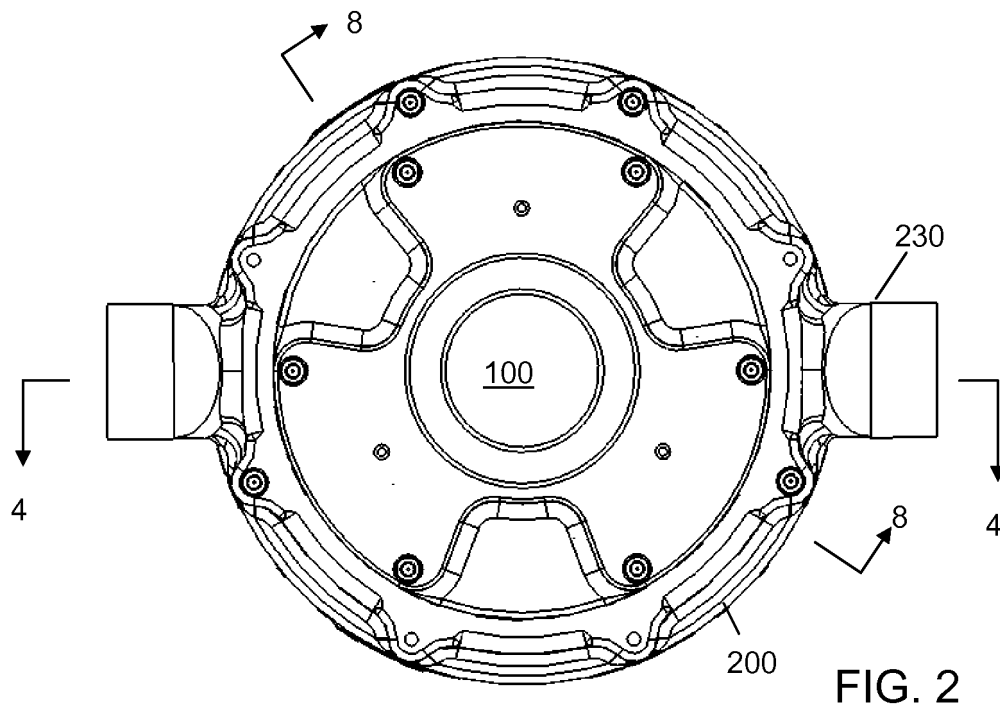
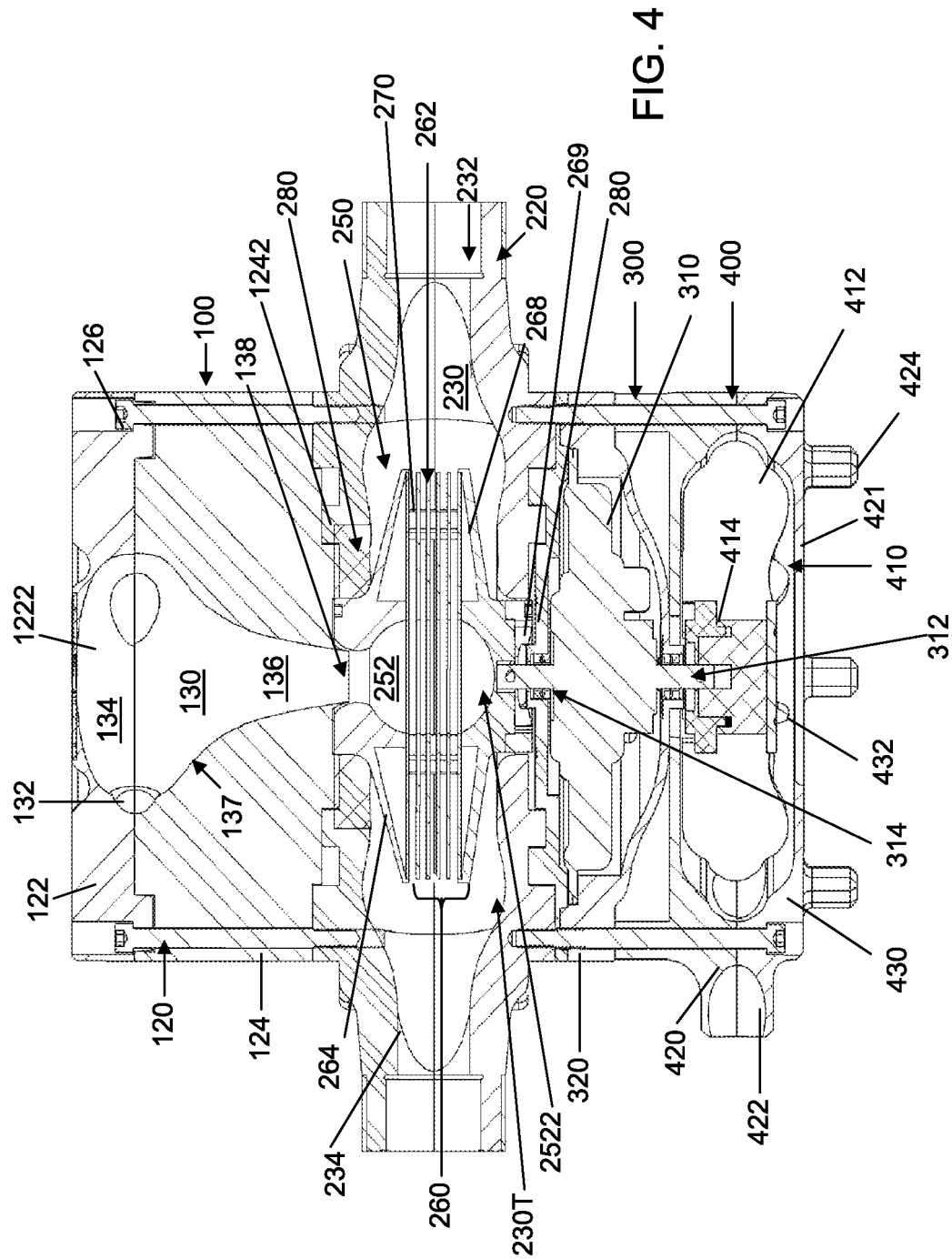


FIG. 1A



FIG. 1B





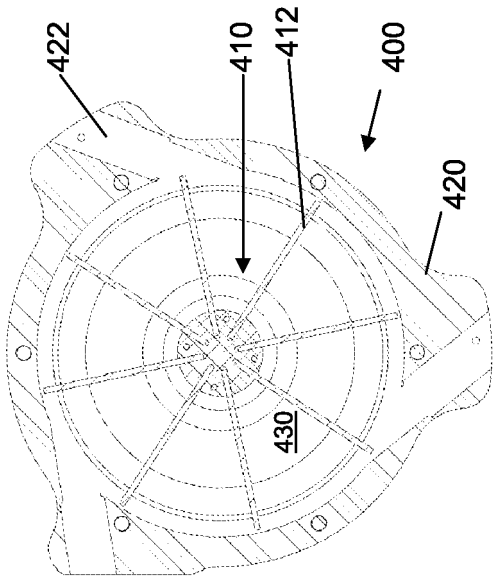


FIG. 7

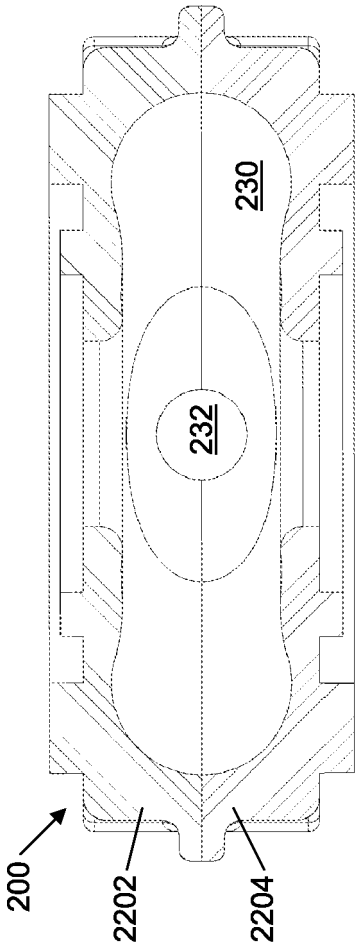


FIG. 10

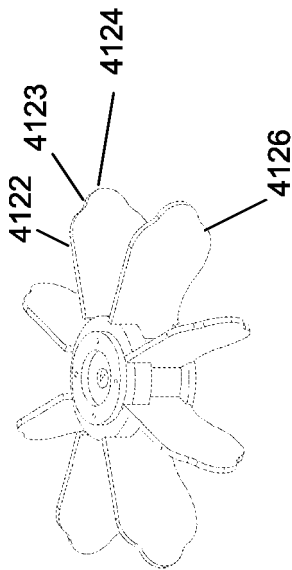


FIG. 6

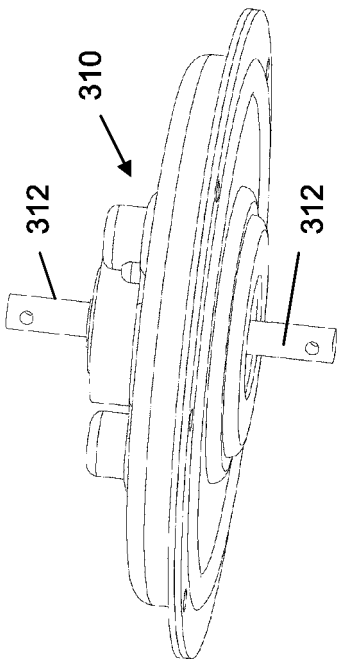


FIG. 5

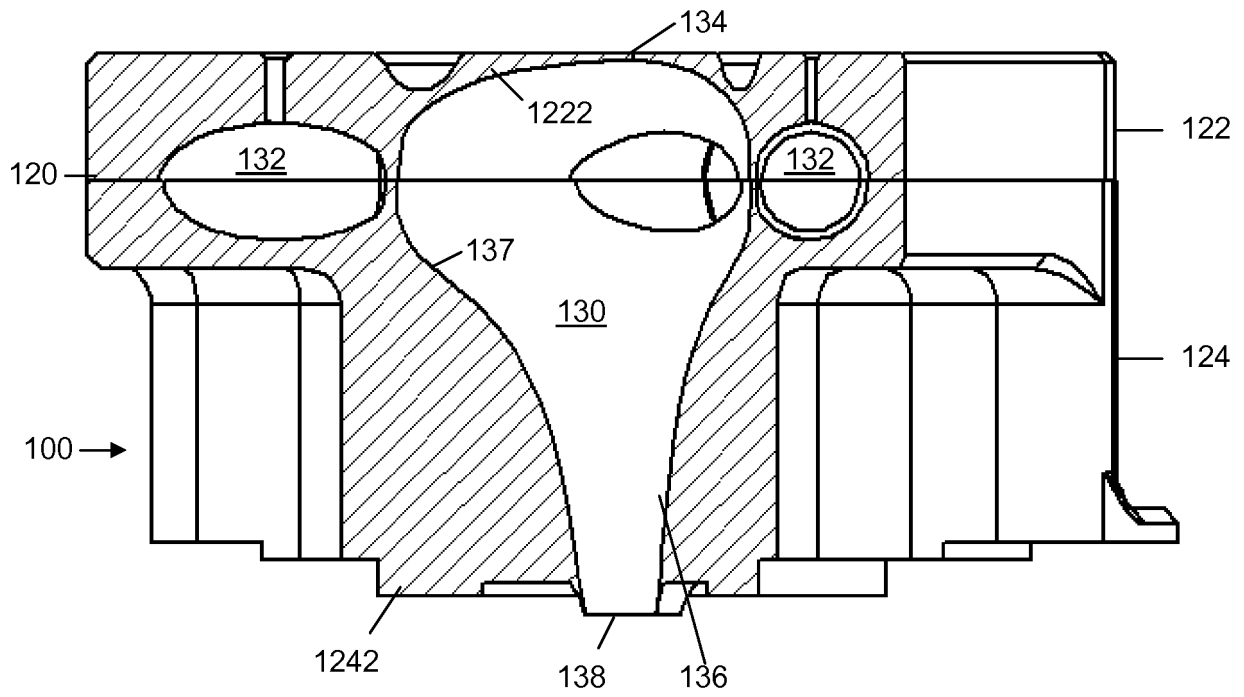


FIG. 8

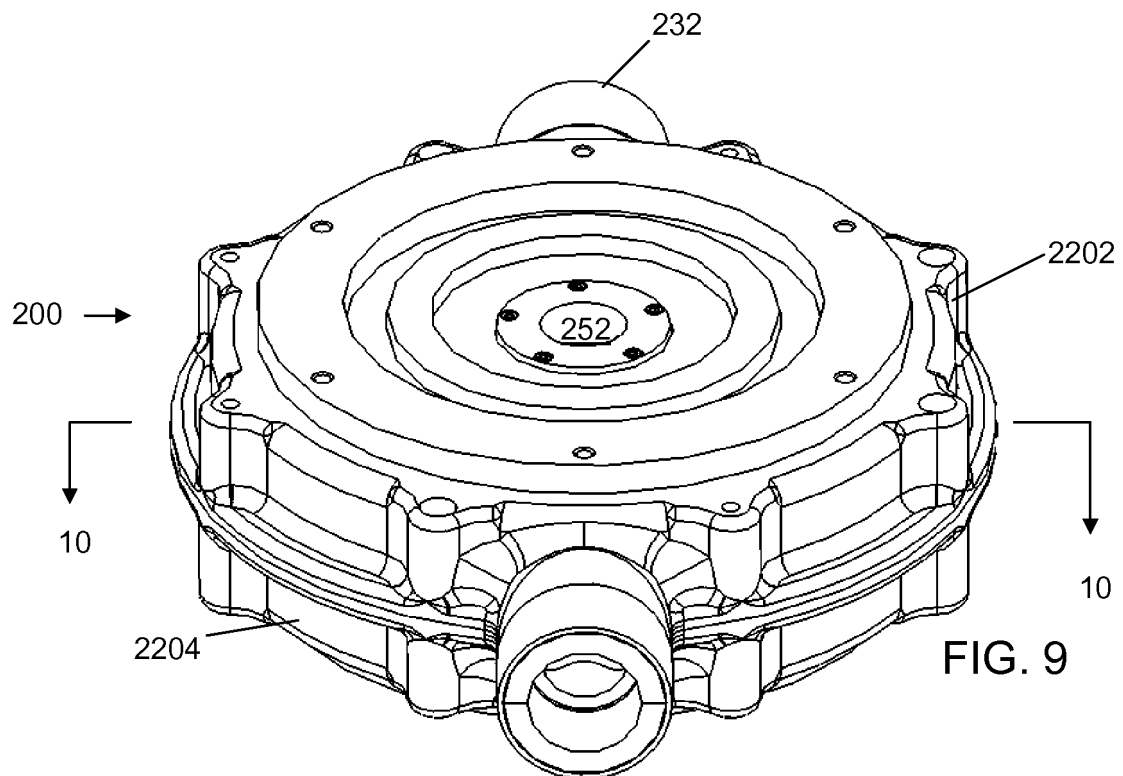


FIG. 9

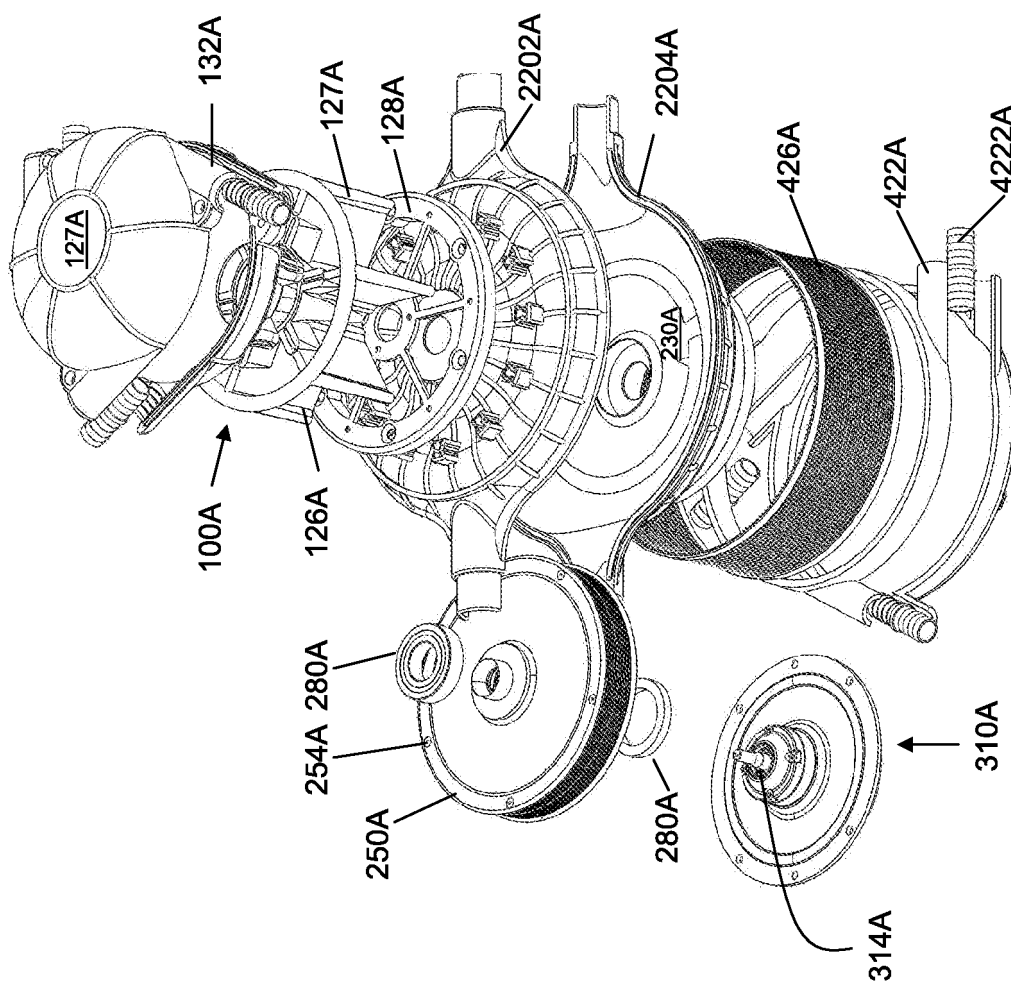


FIG. 14

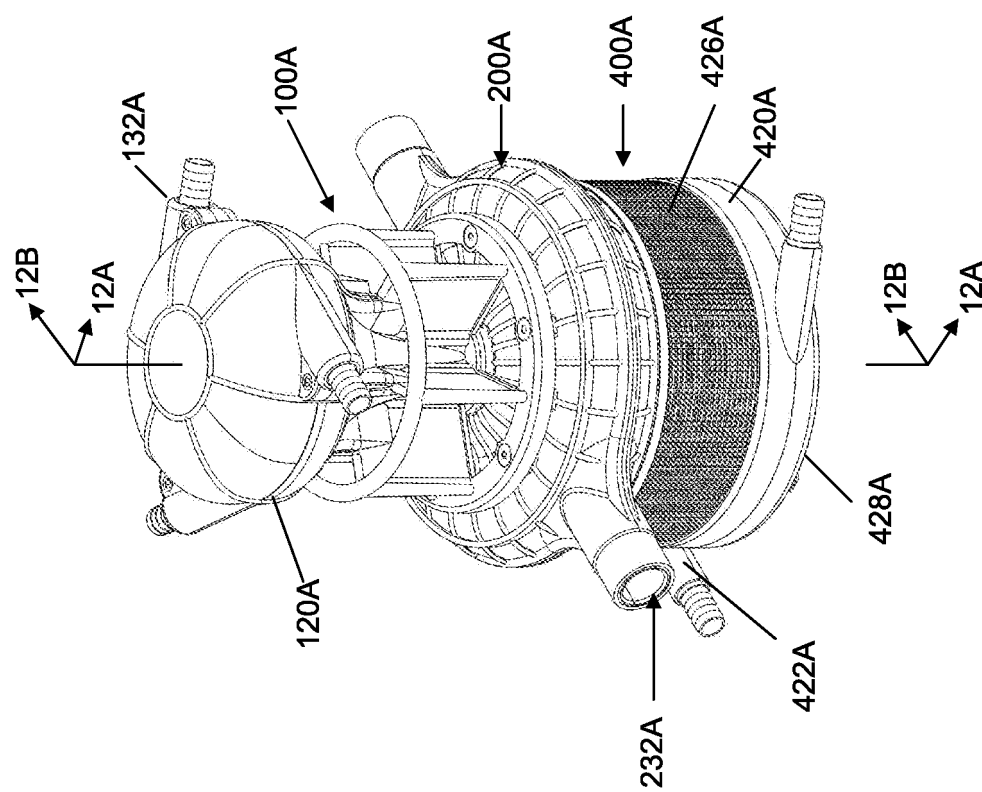


FIG. 11

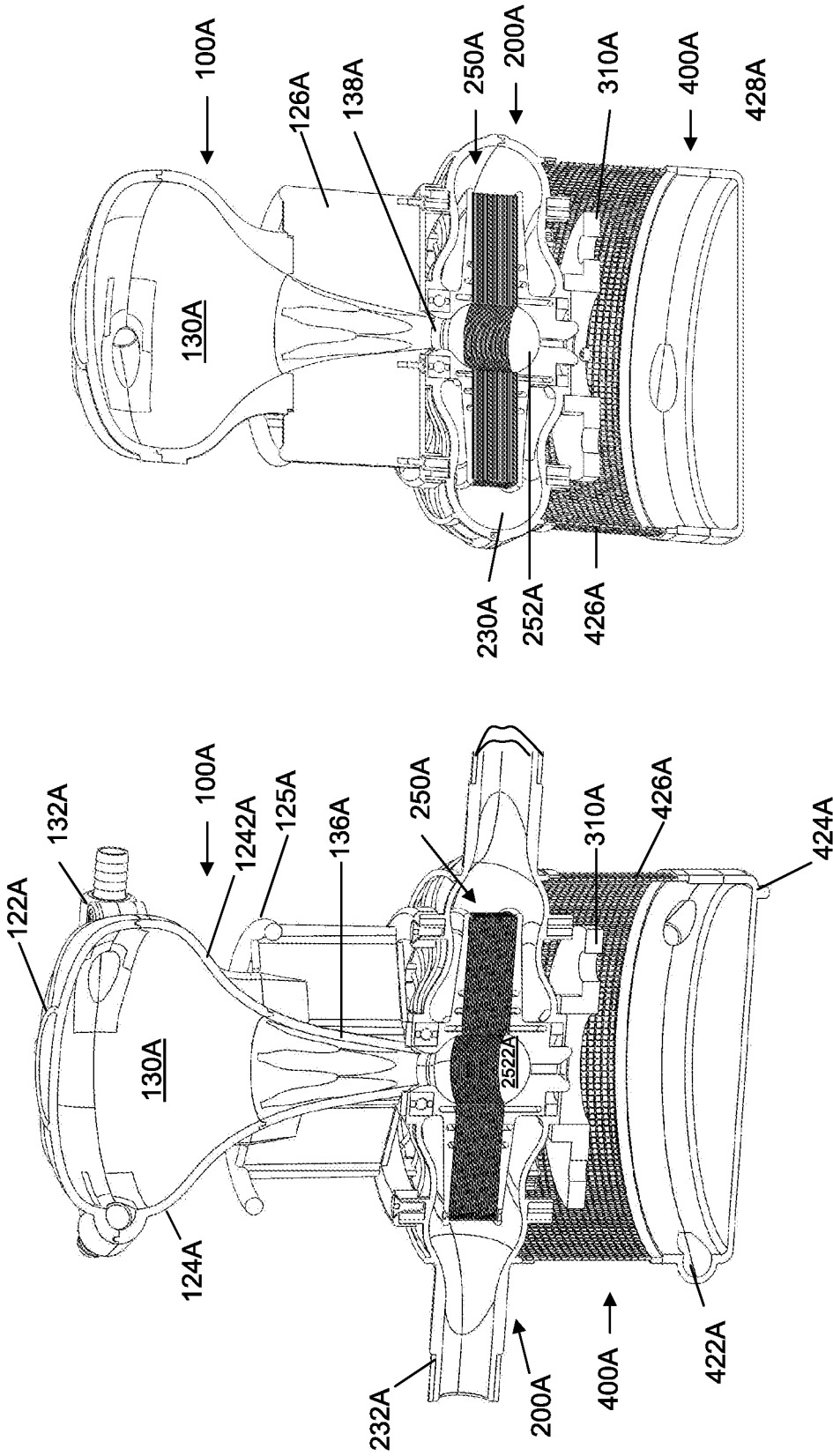


FIG. 12B

FIG. 12A

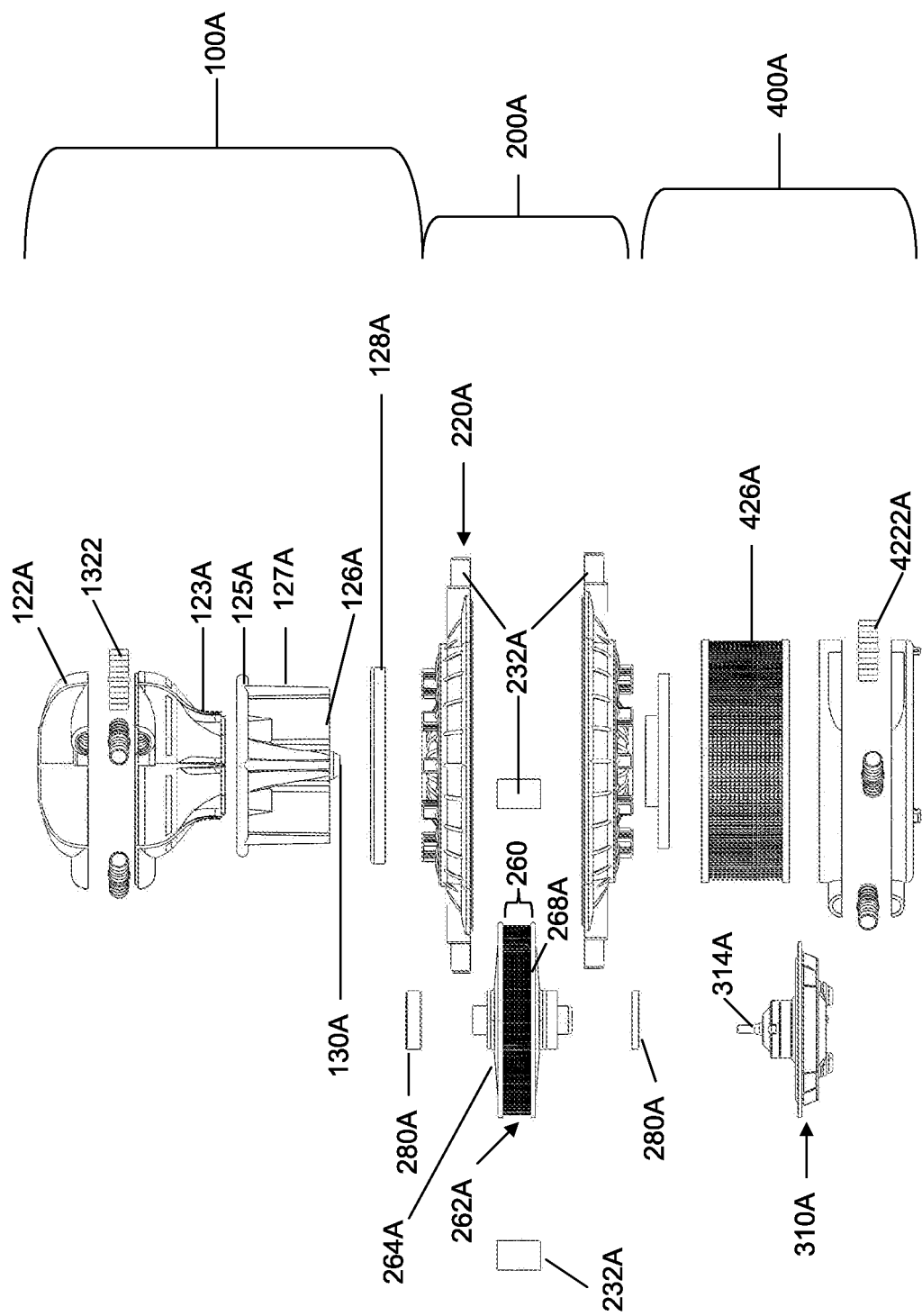


FIG. 13

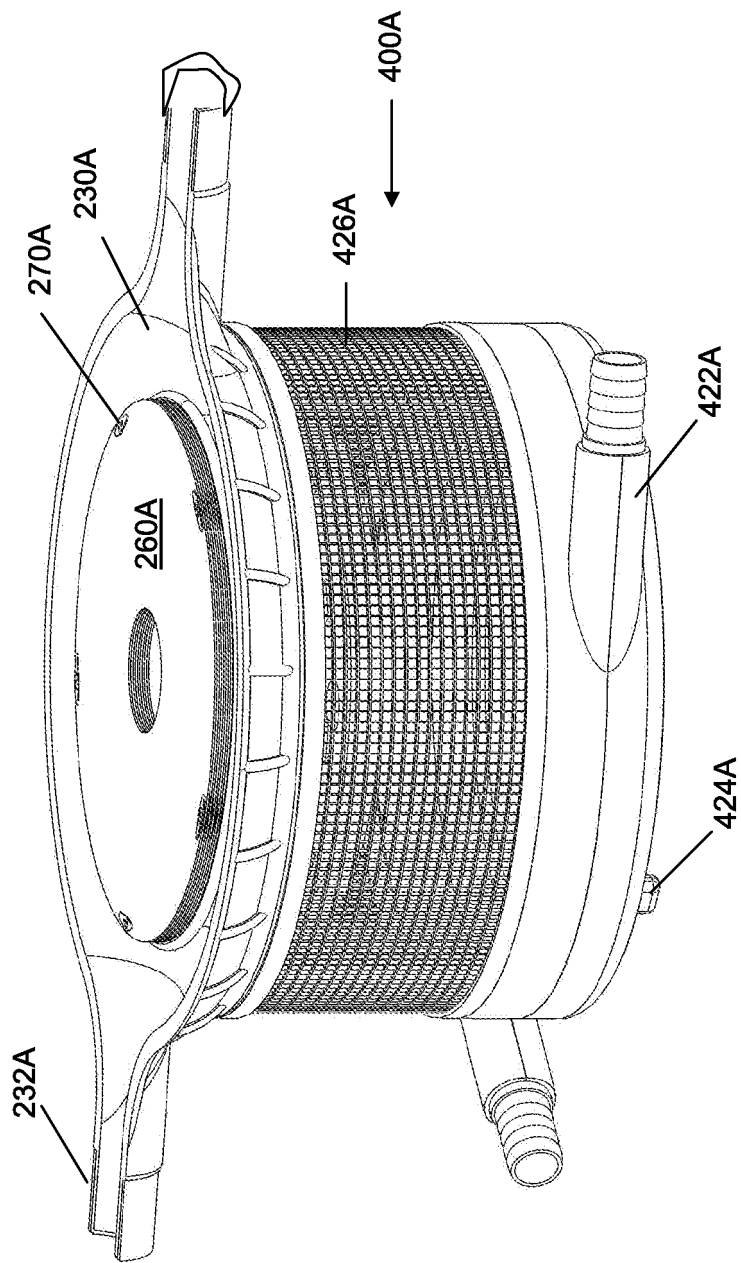


FIG. 15

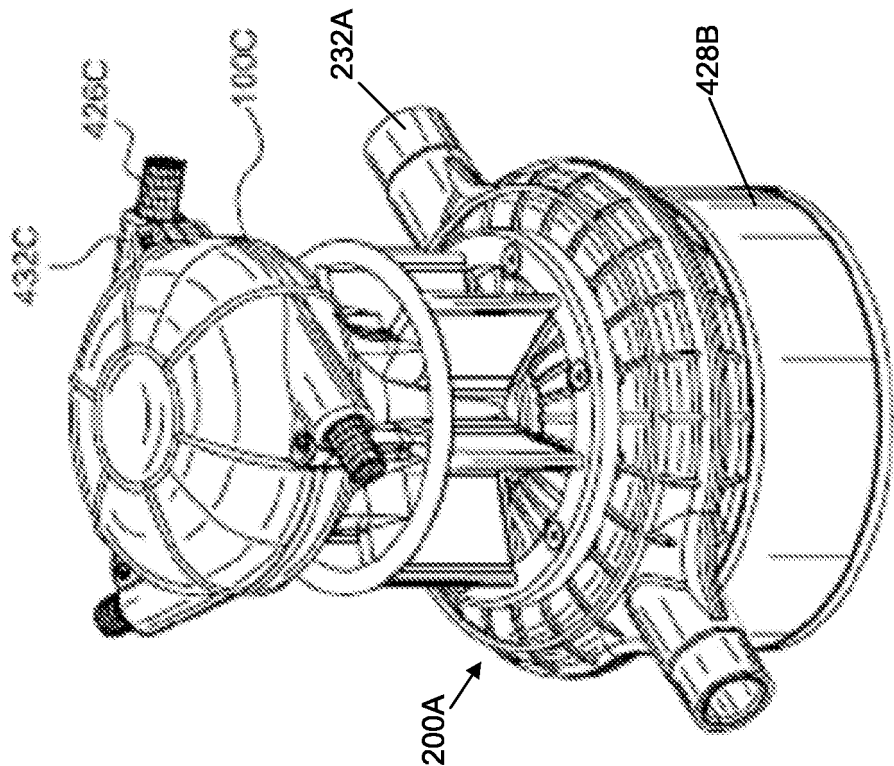


FIG. 17

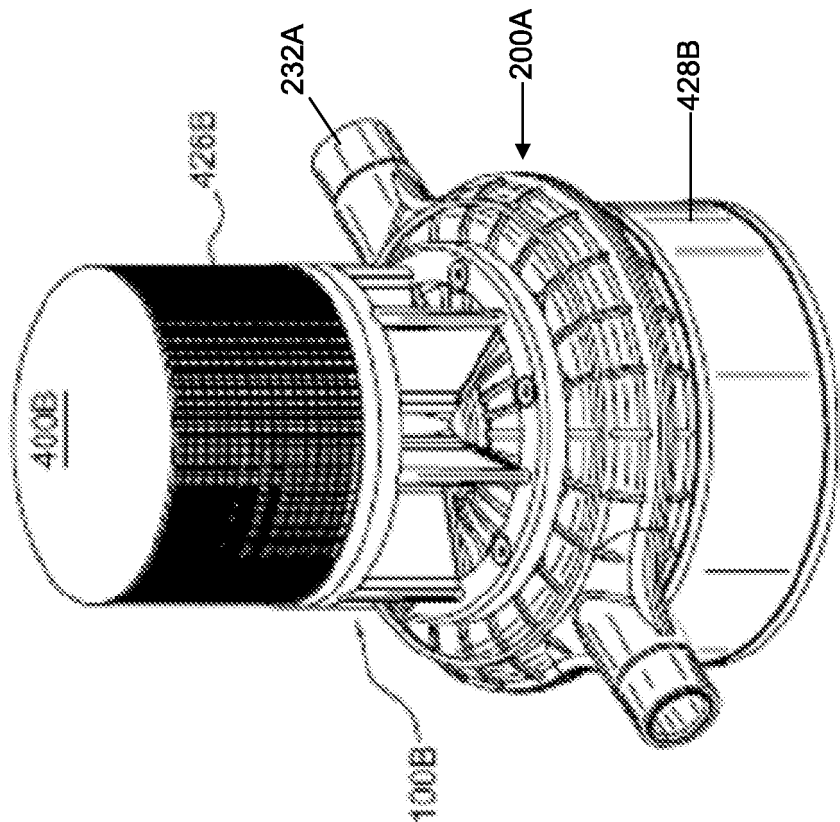


FIG. 16

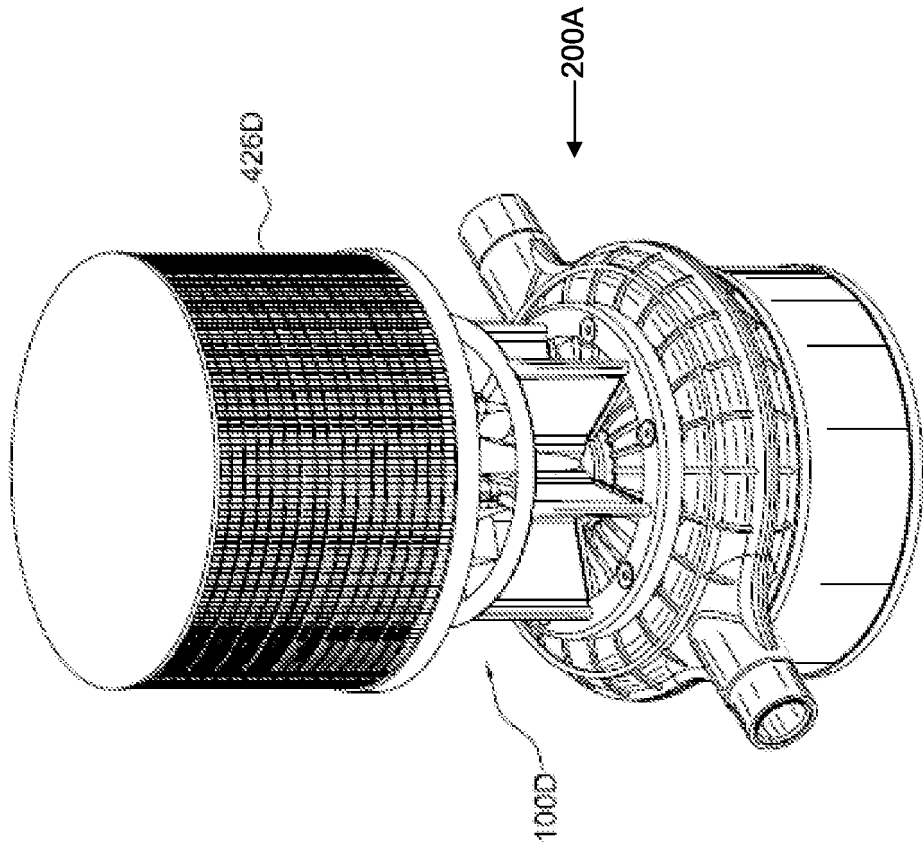


FIG. 18

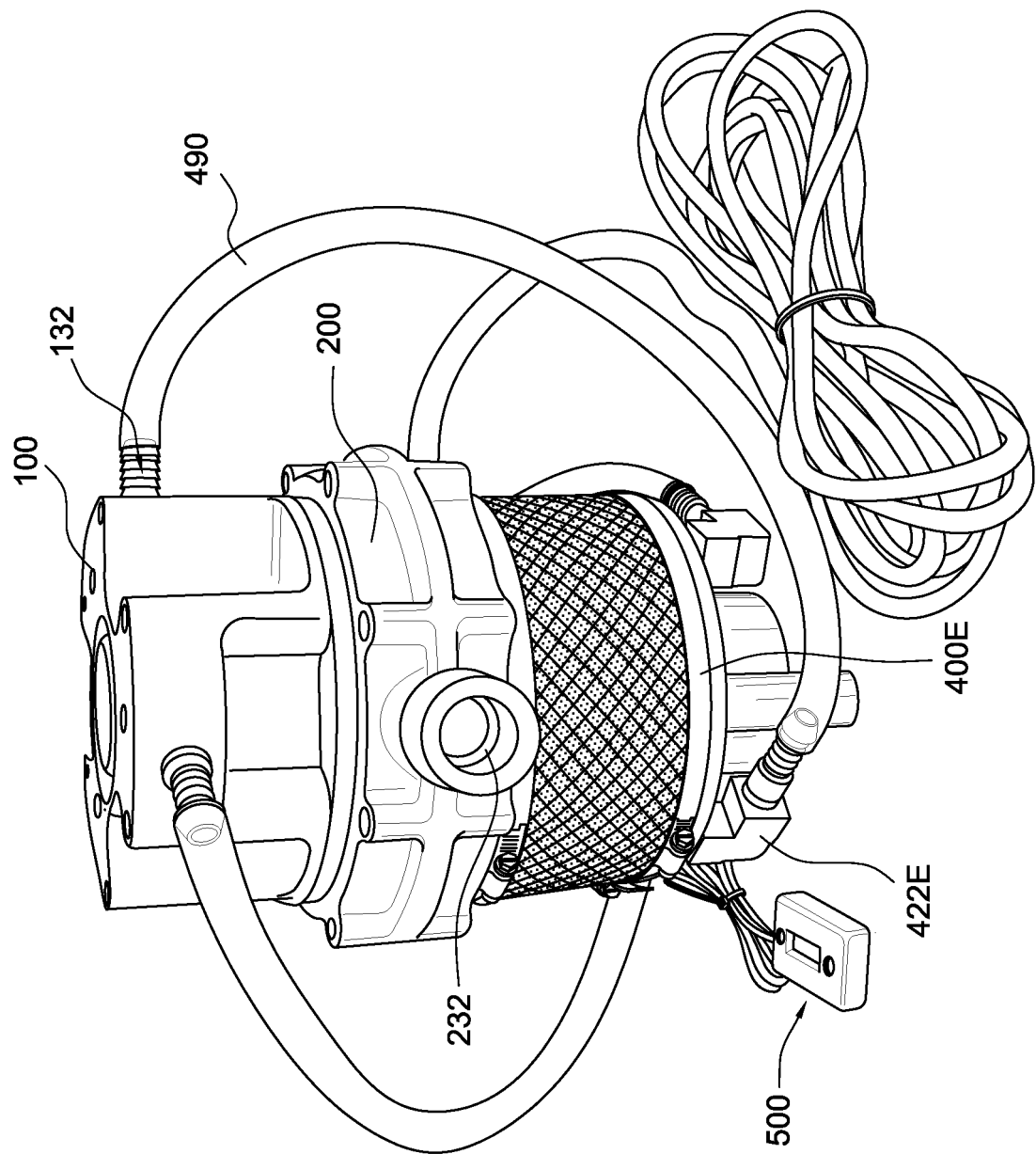


FIG. 19

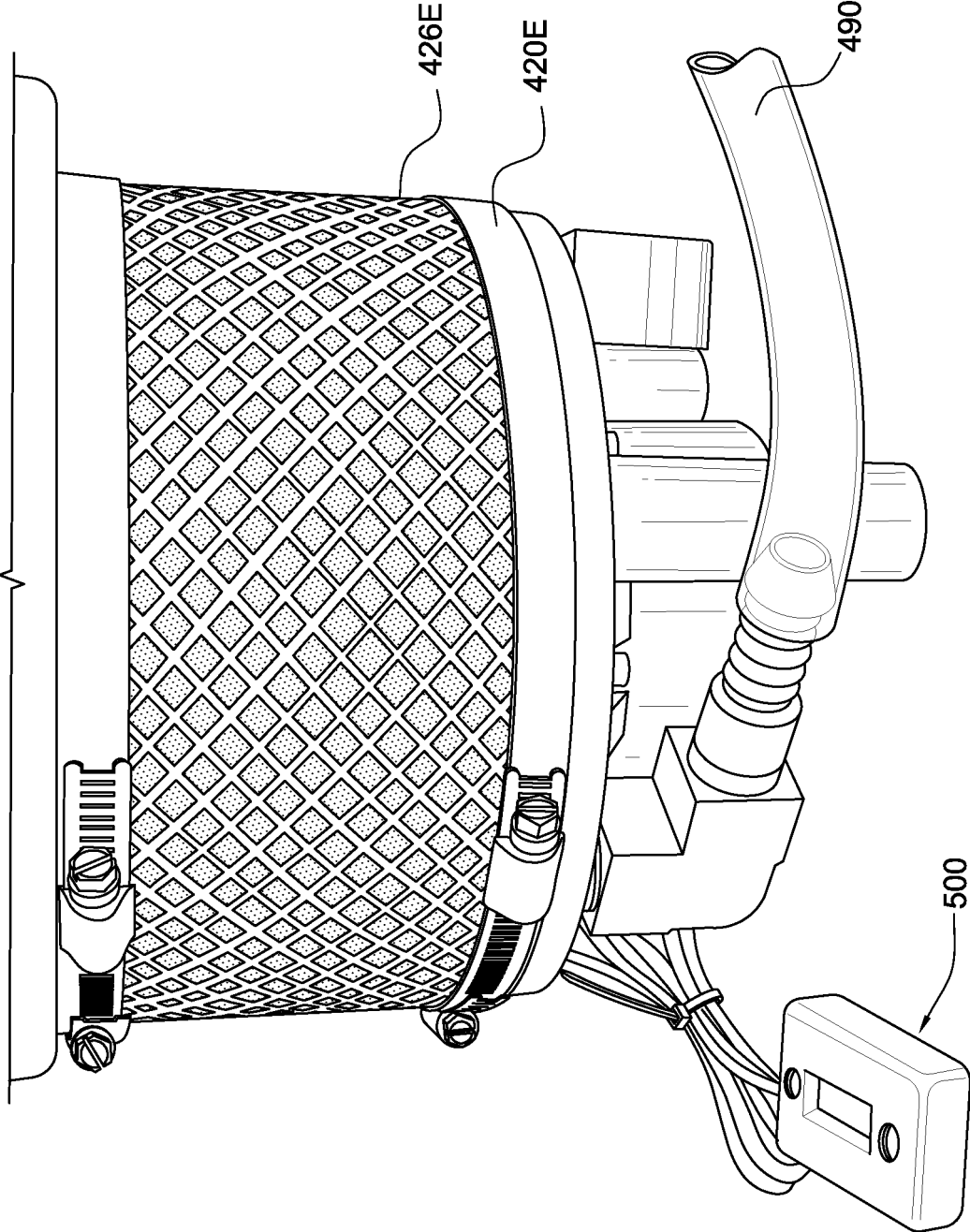


FIG. 20

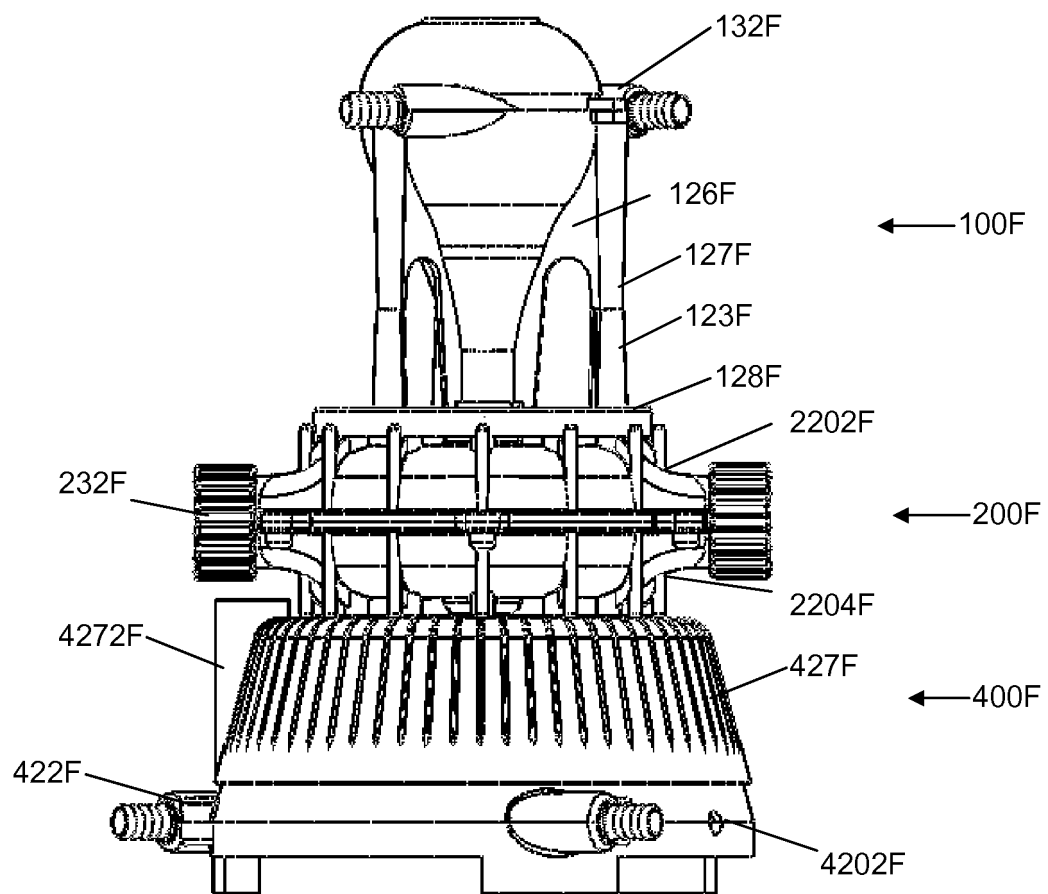


FIG. 21

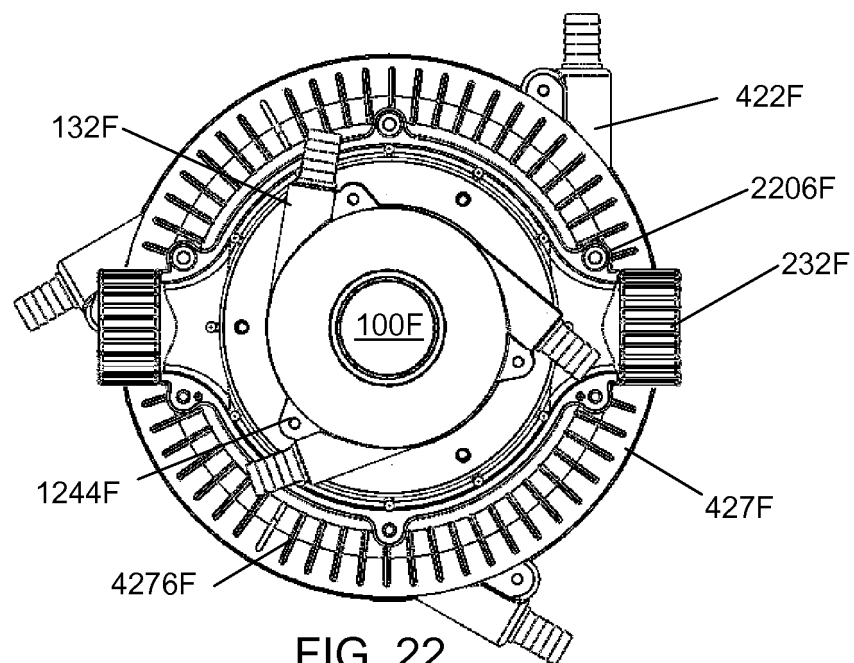


FIG. 22

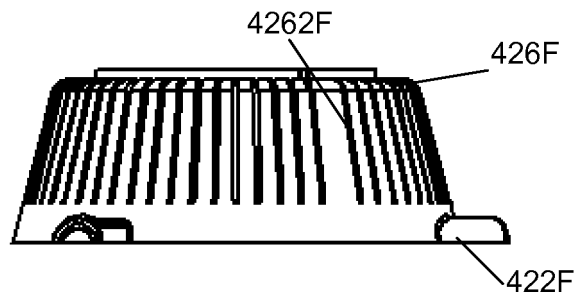


FIG. 23A

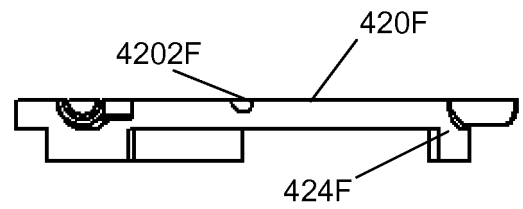


FIG. 23B

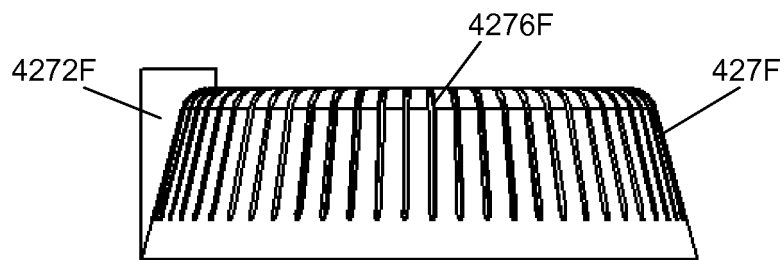


FIG. 23C

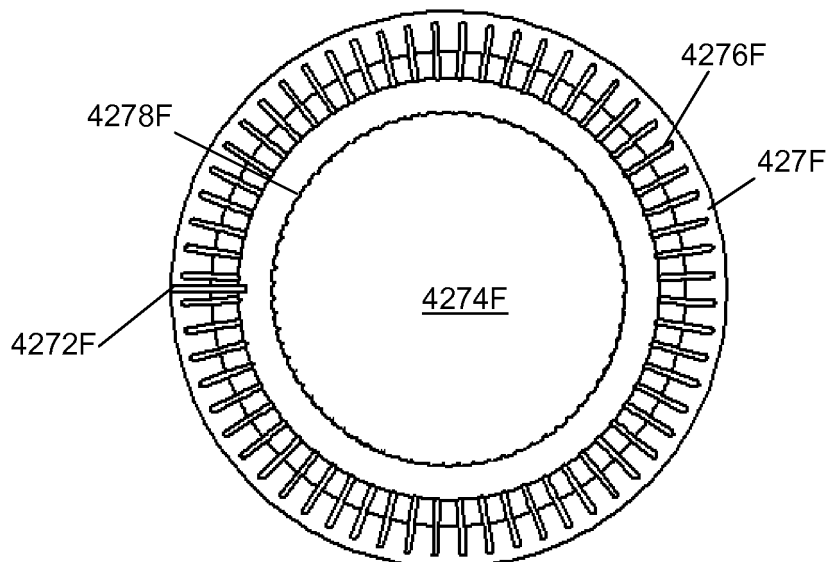


FIG. 23D

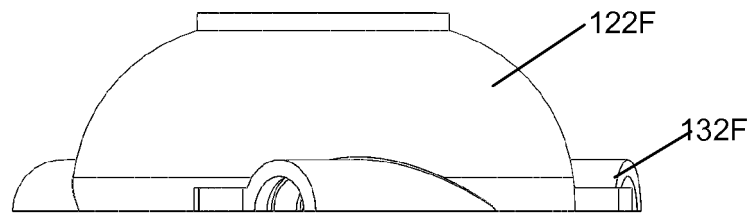


FIG. 24A

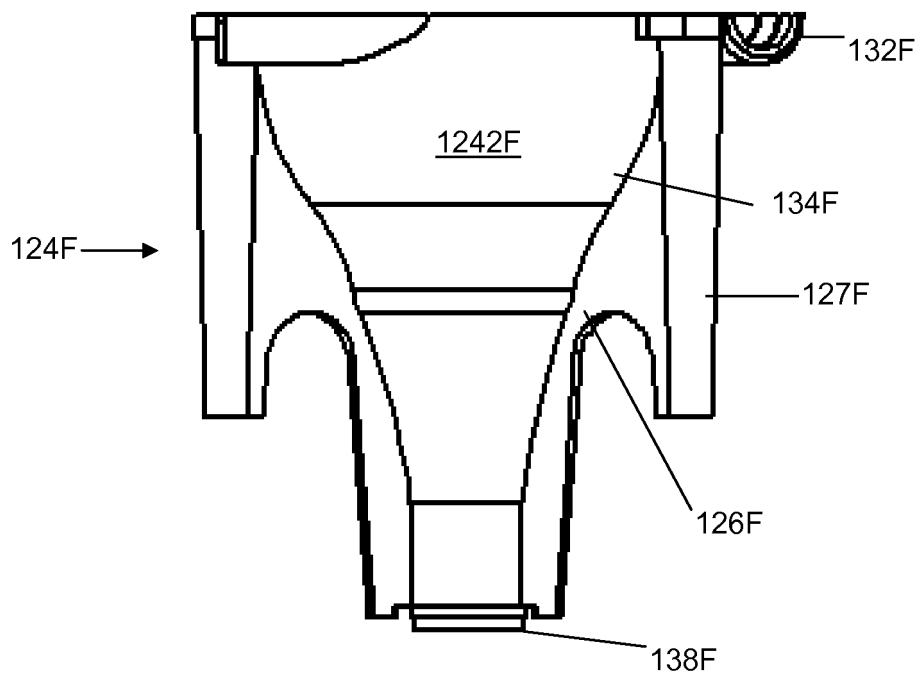


FIG. 24B

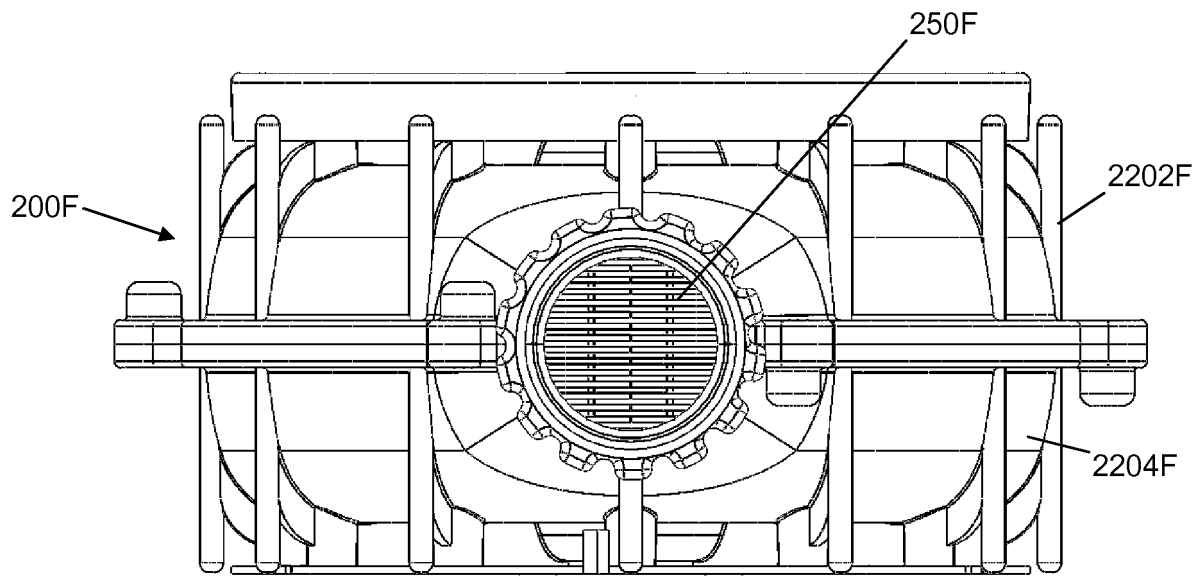


FIG. 25A

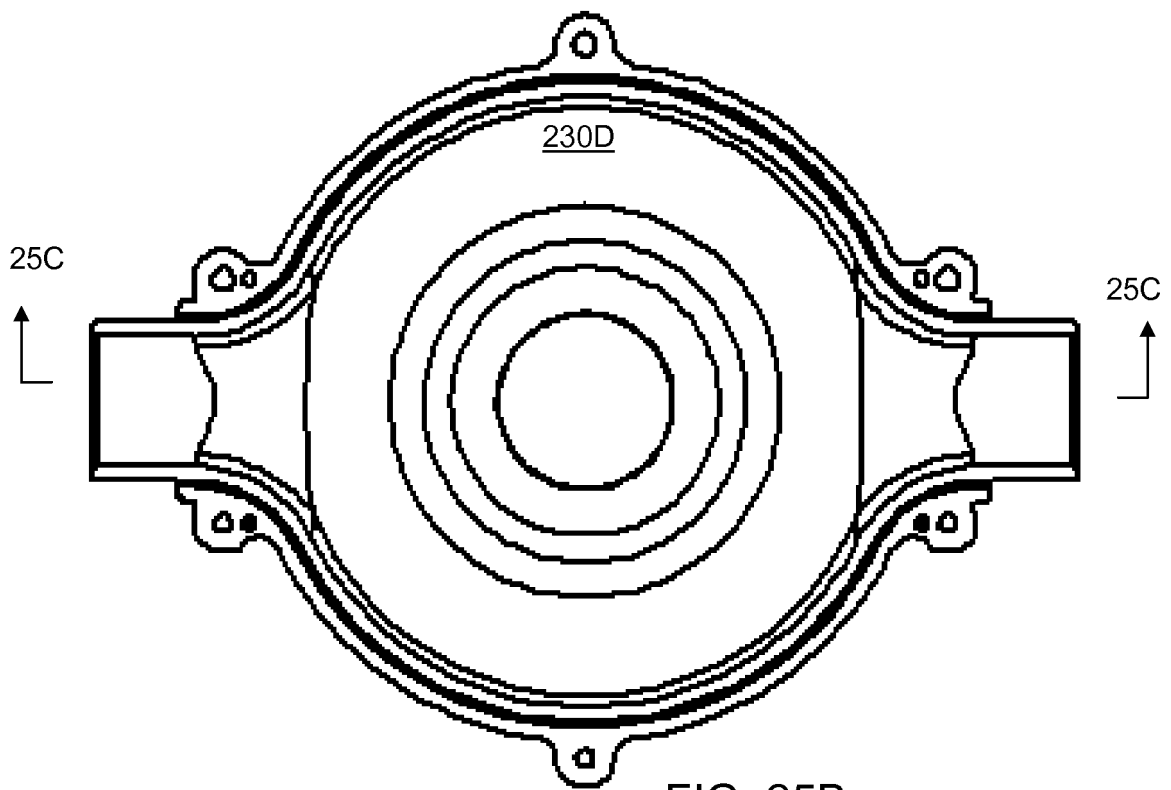


FIG. 25B

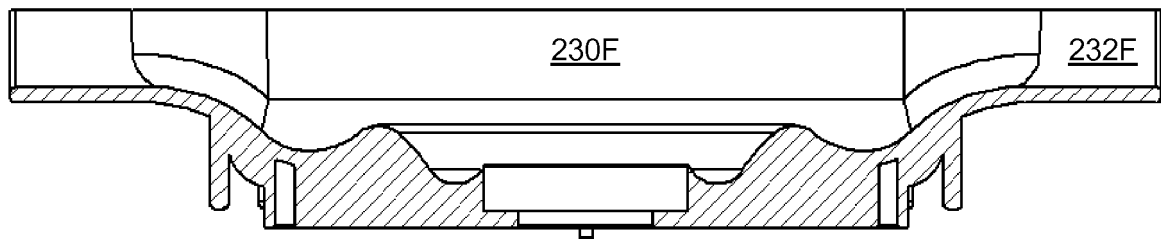


FIG. 25C

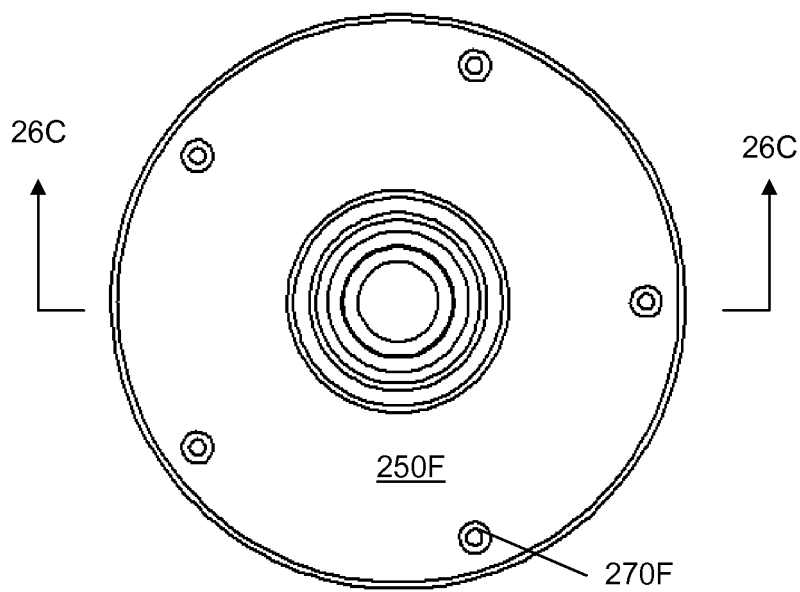


FIG. 26A

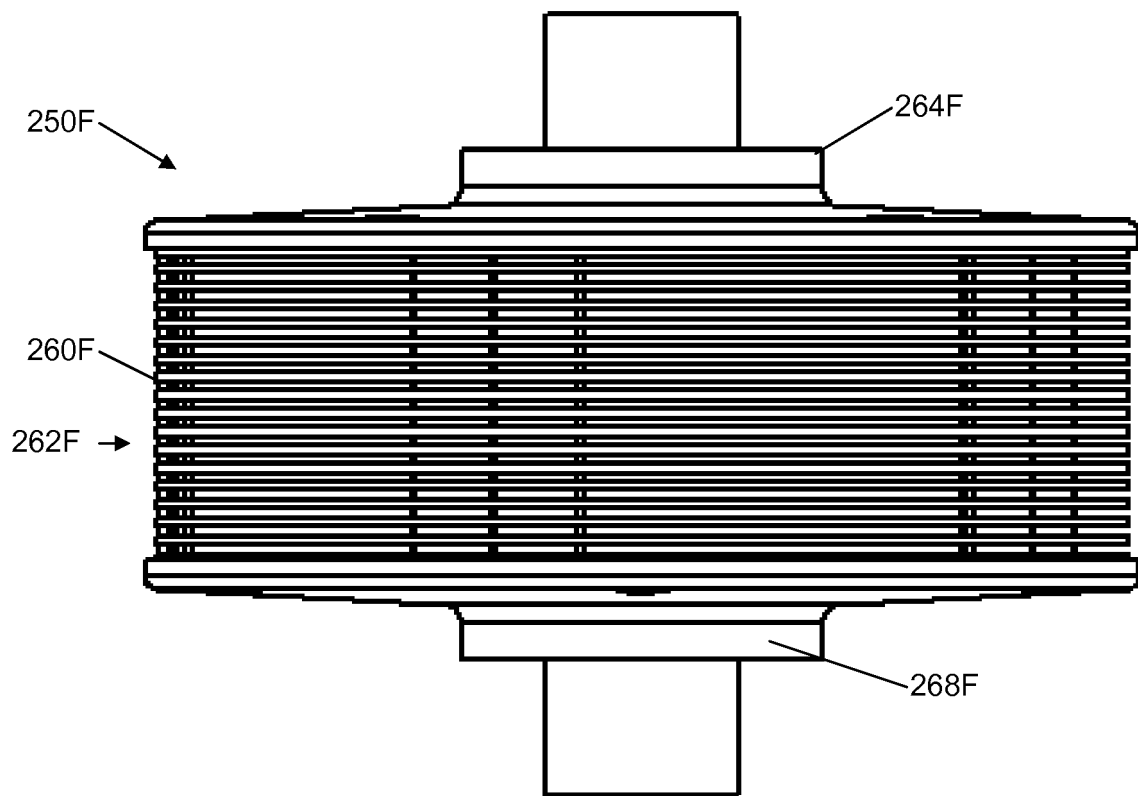


FIG. 26B

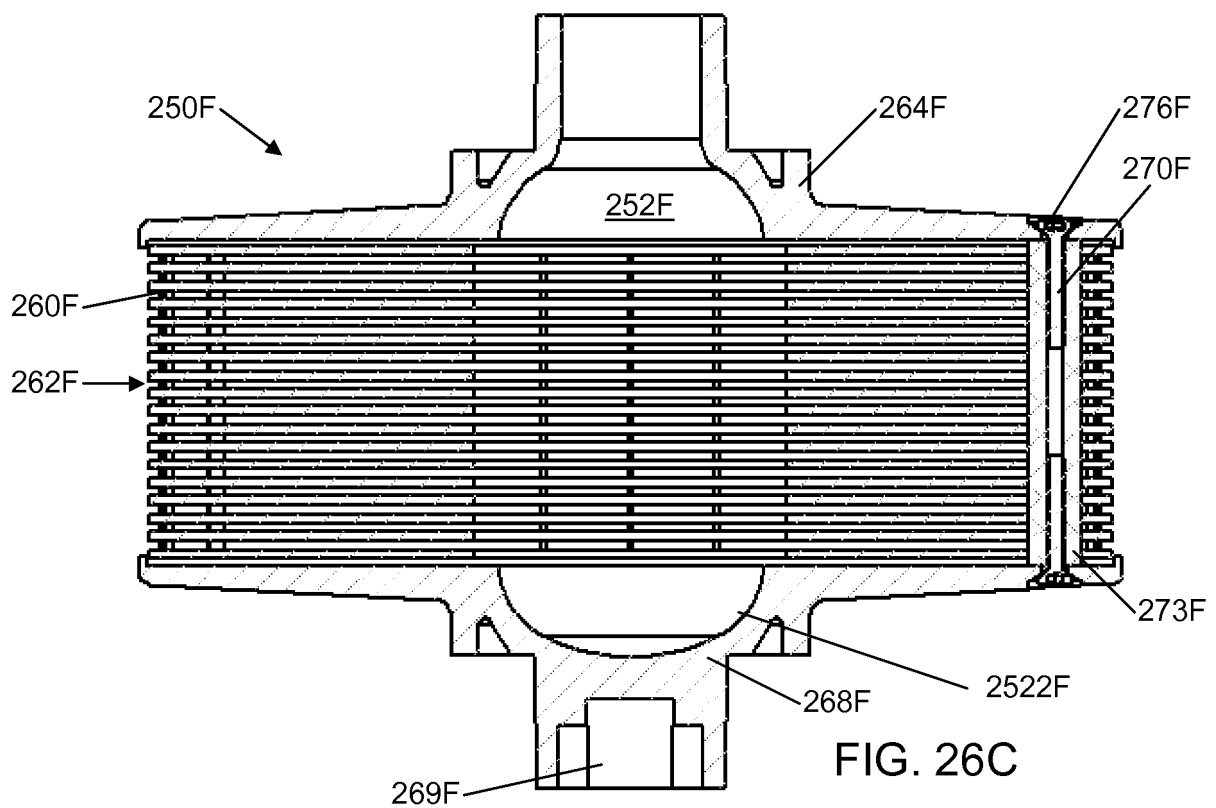


FIG. 26C

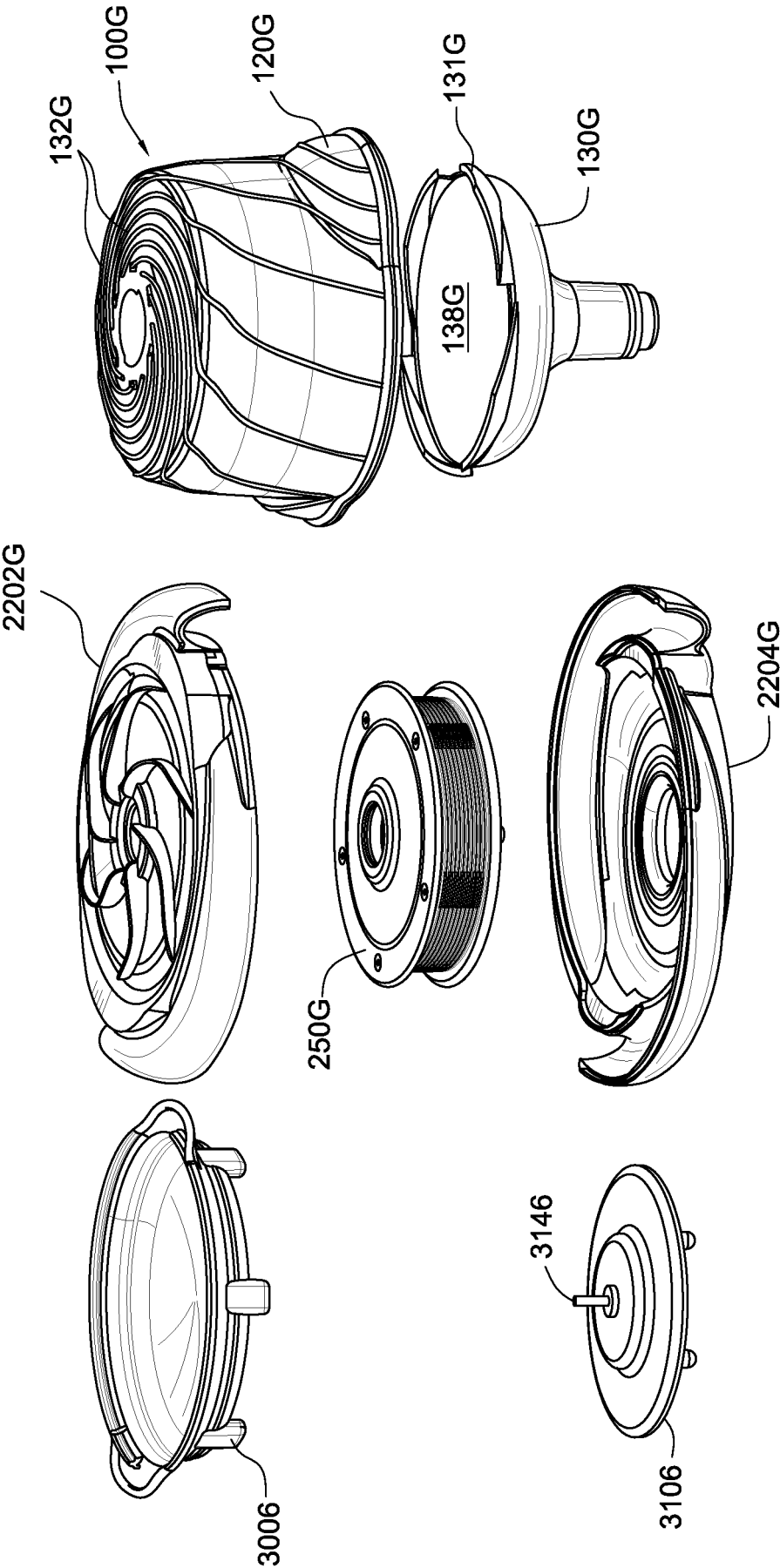


FIG. 27A

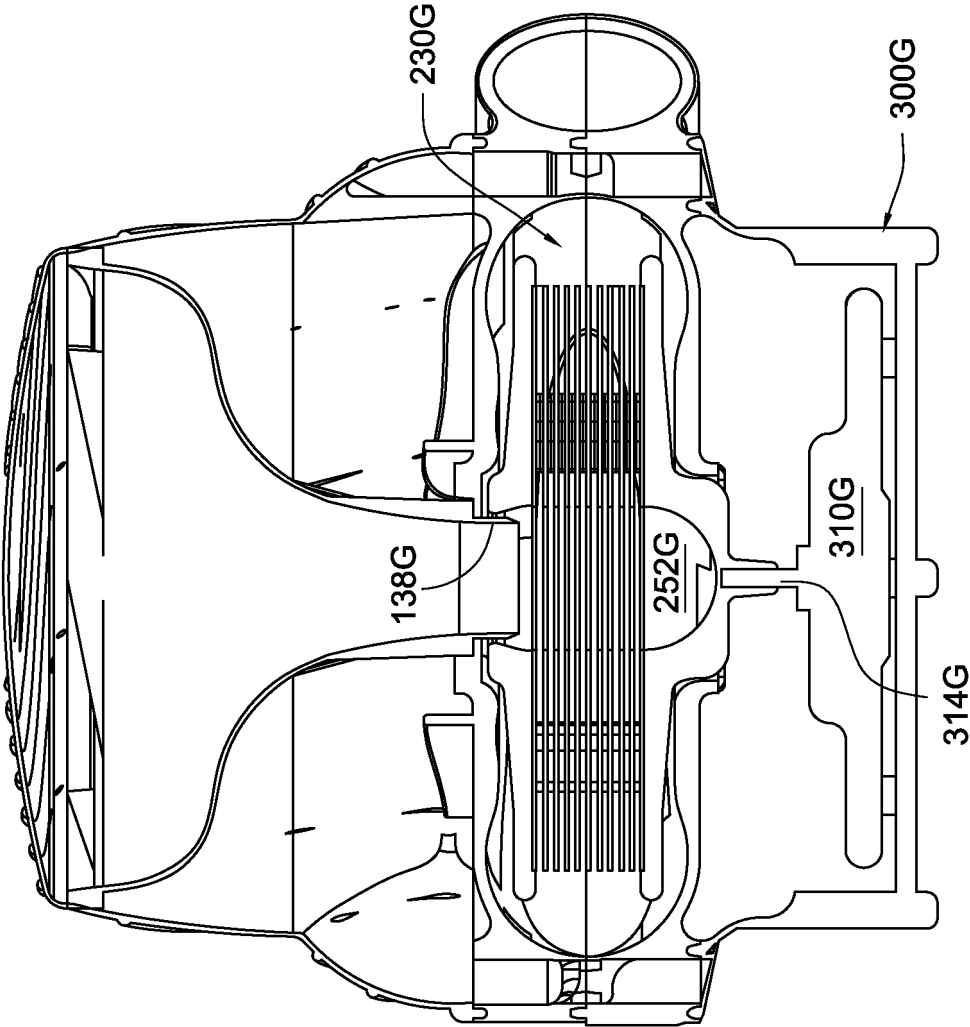


FIG. 27B

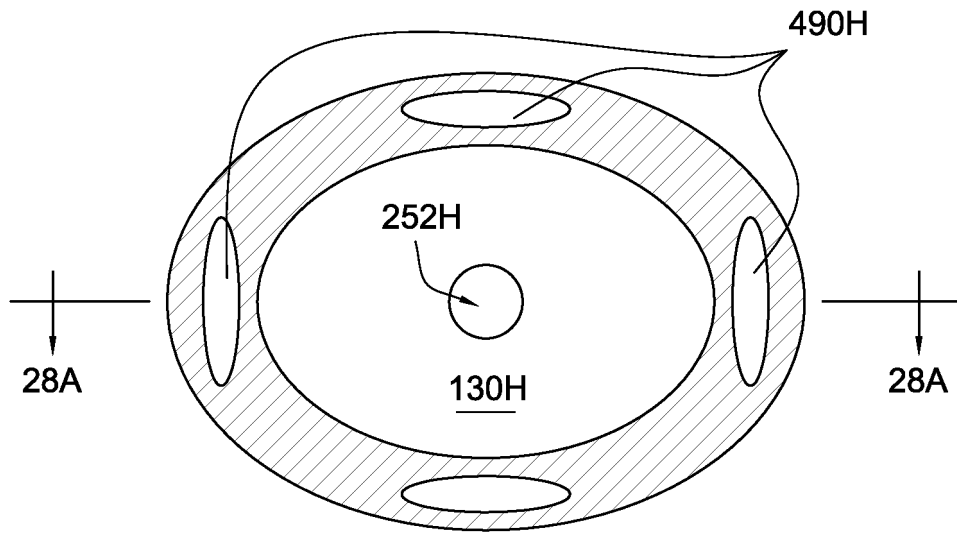


FIG. 28B

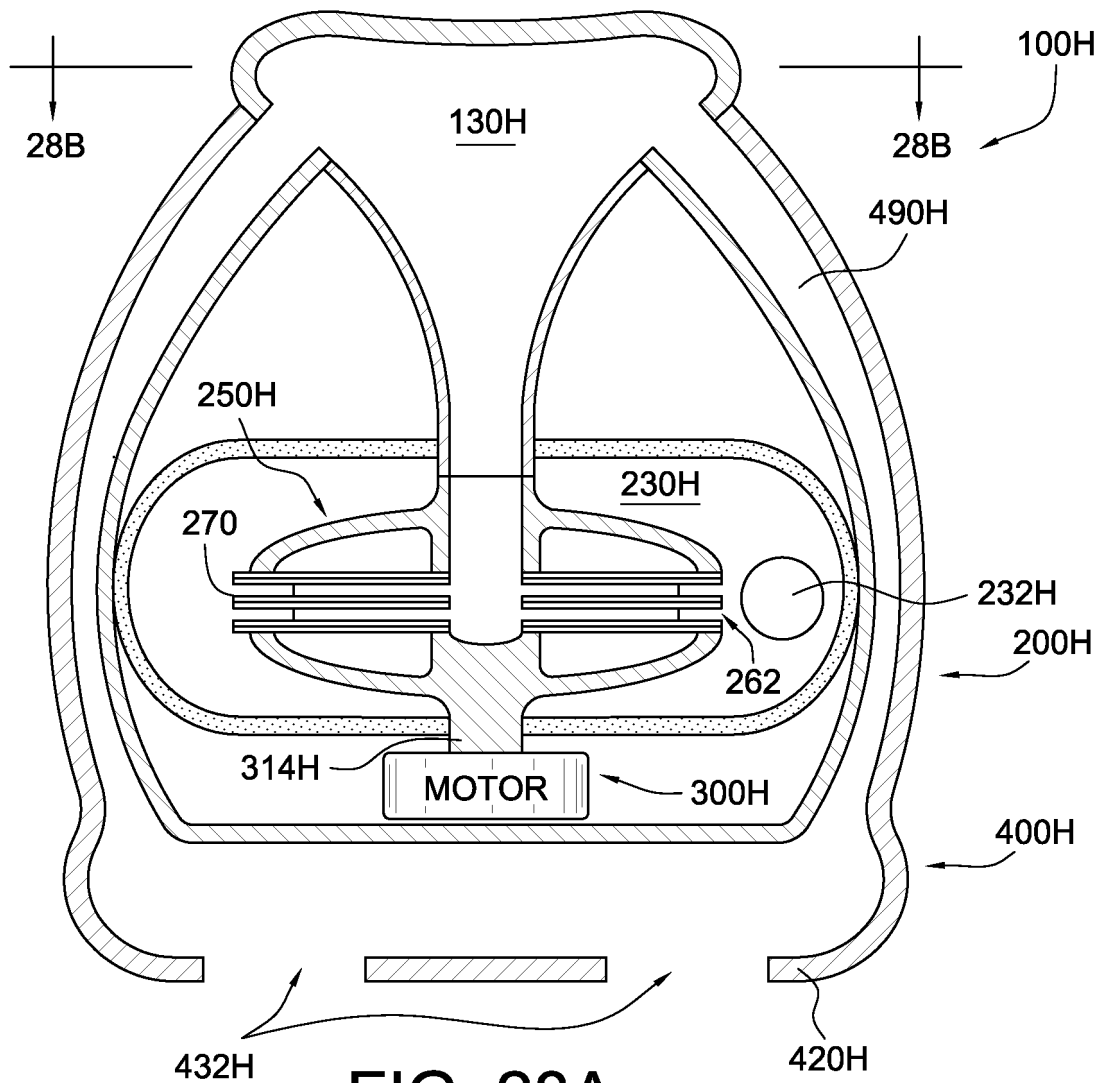


FIG. 28A

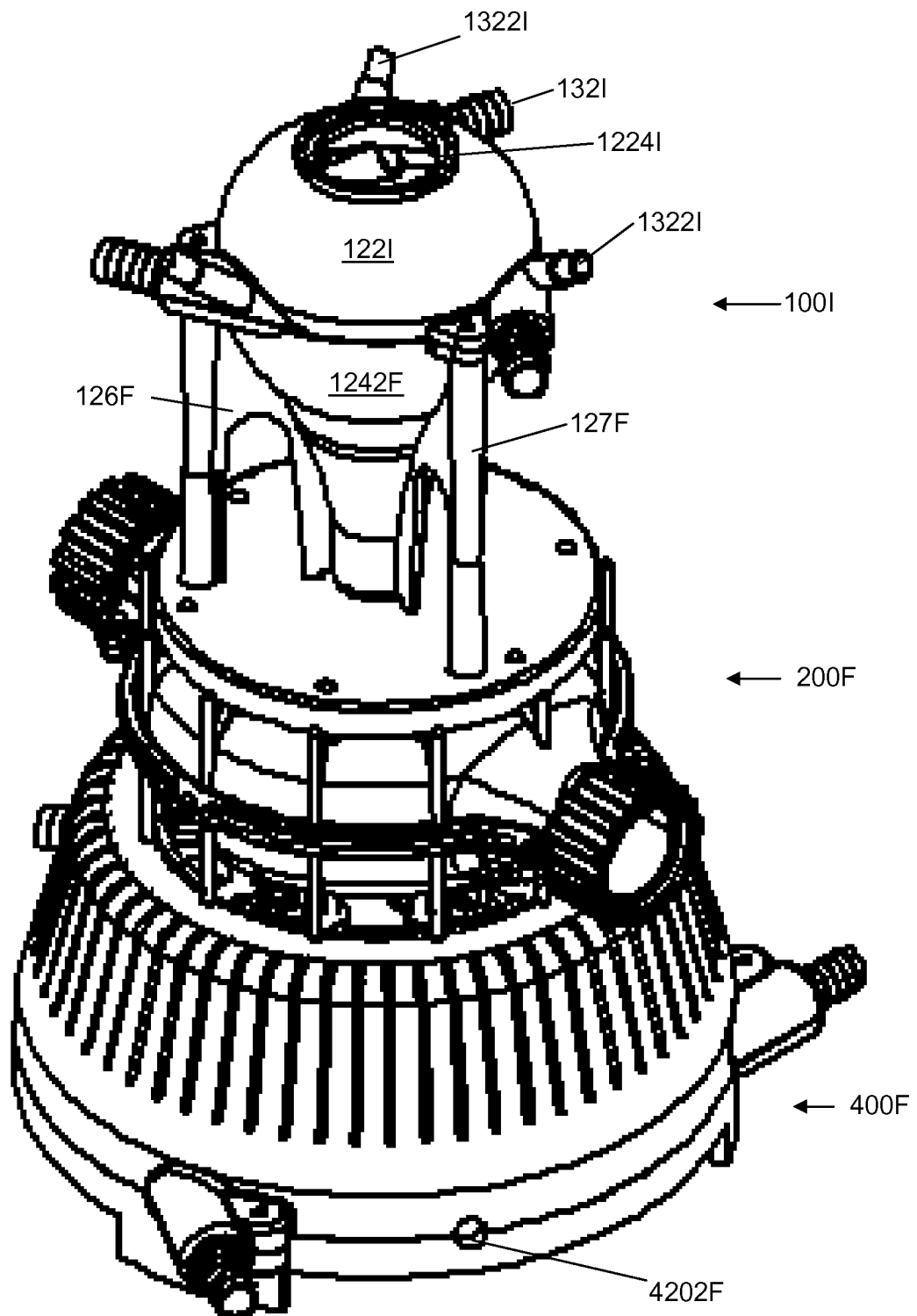


FIG. 29

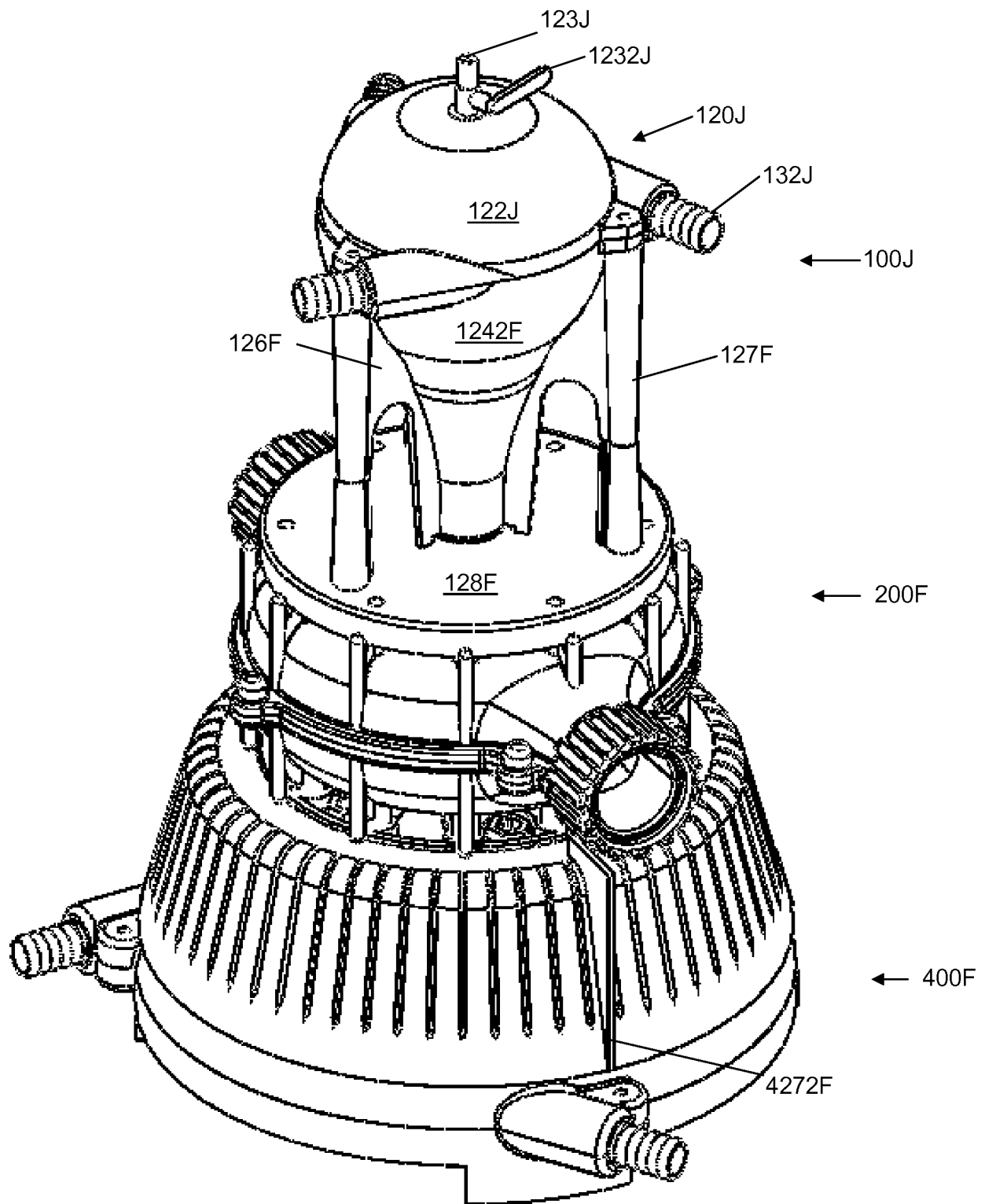


FIG. 30

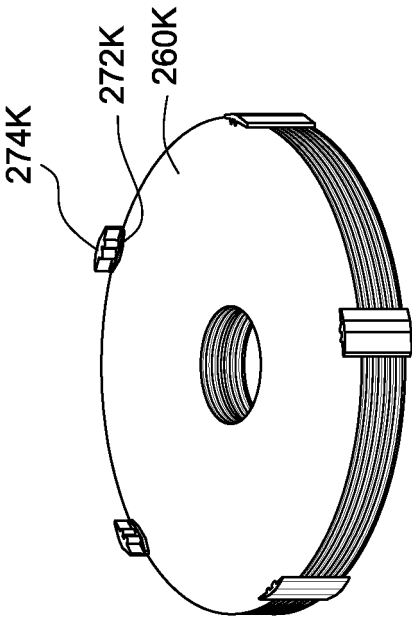


FIG. 31A

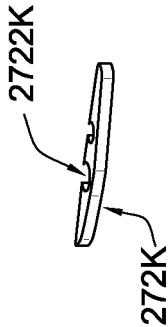


FIG. 31B

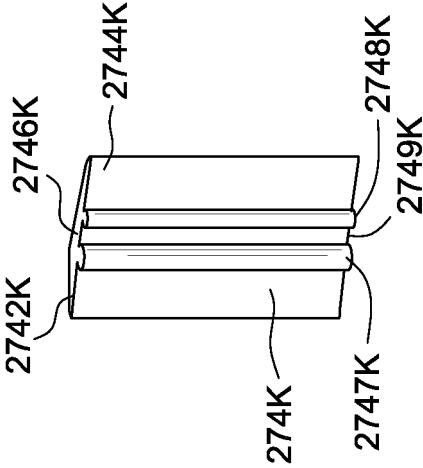


FIG. 31C

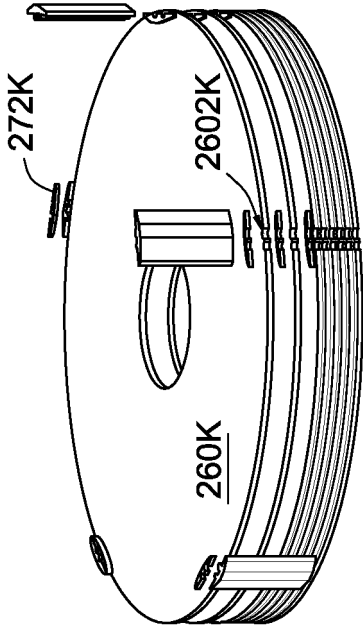


FIG. 31D

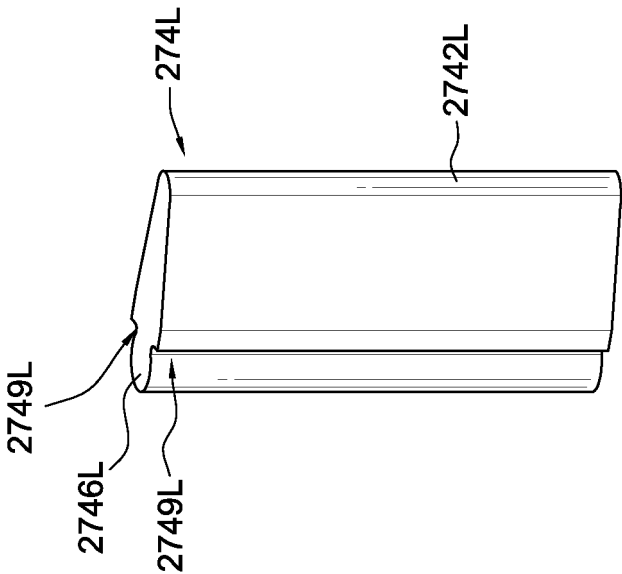


FIG. 32A

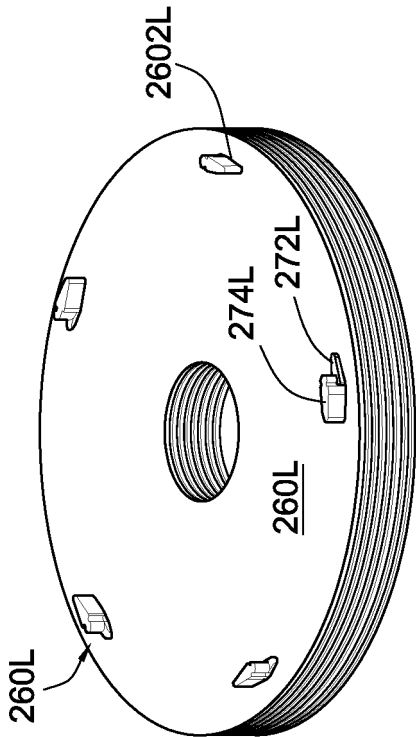


FIG. 32C

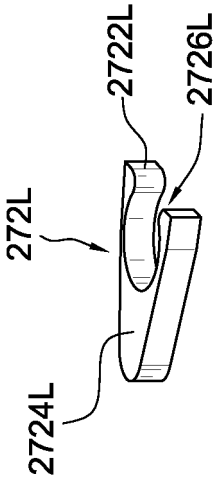


FIG. 32B

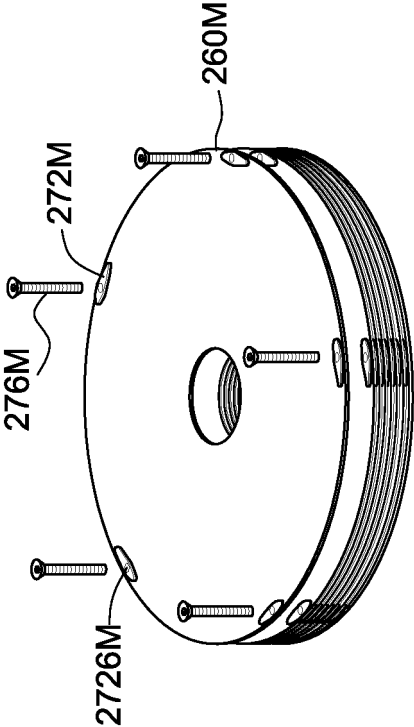


FIG. 33A

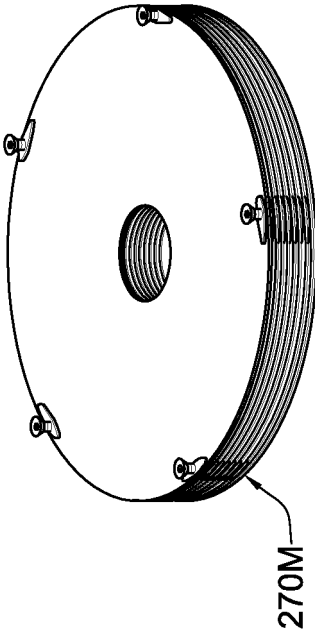


FIG. 33B

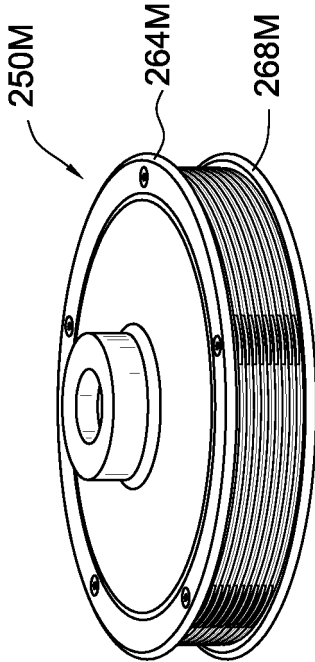


FIG. 33C

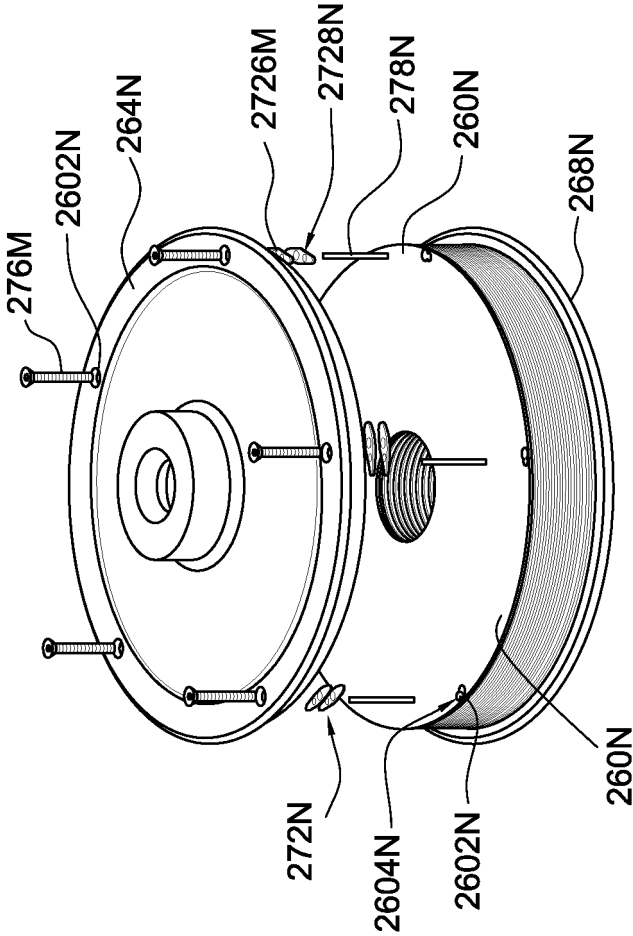


FIG. 34

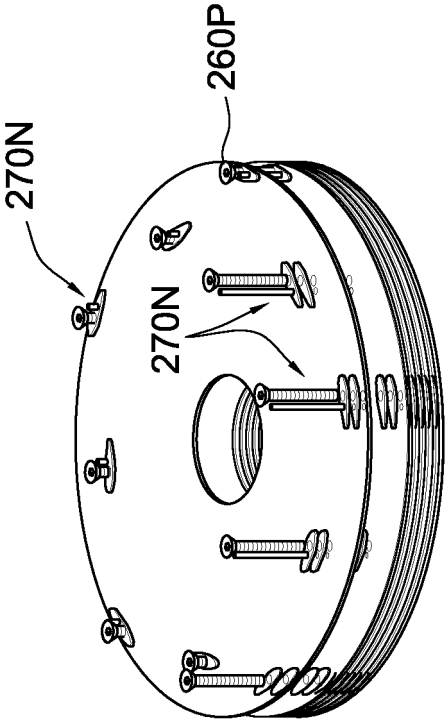


FIG. 35

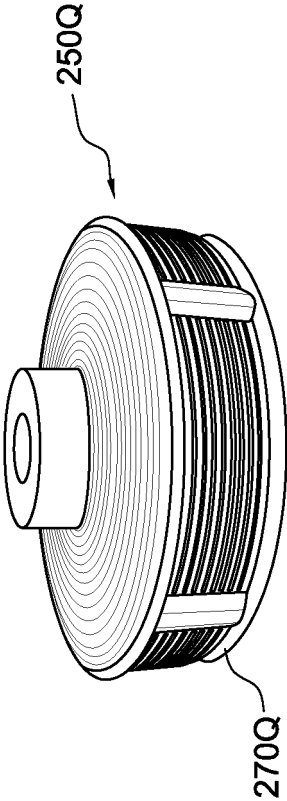


FIG. 36

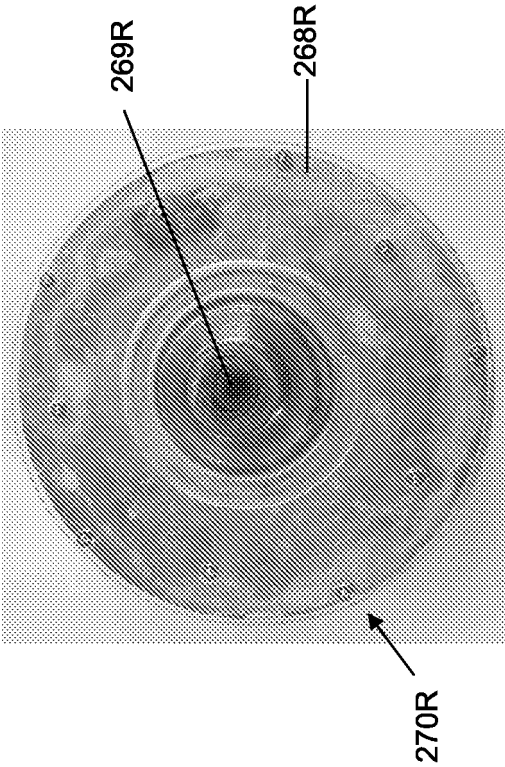


FIG. 37C

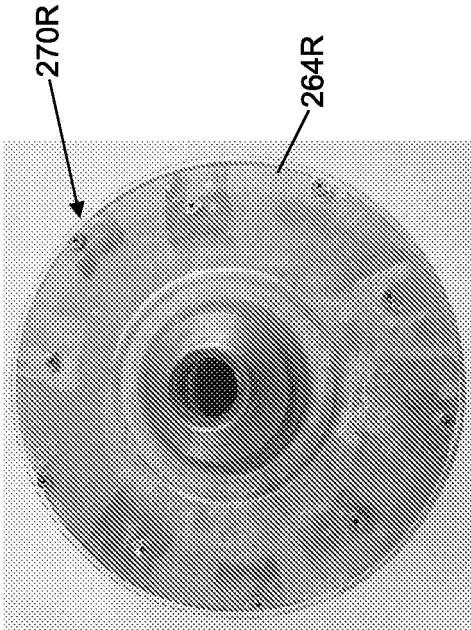


FIG. 37B

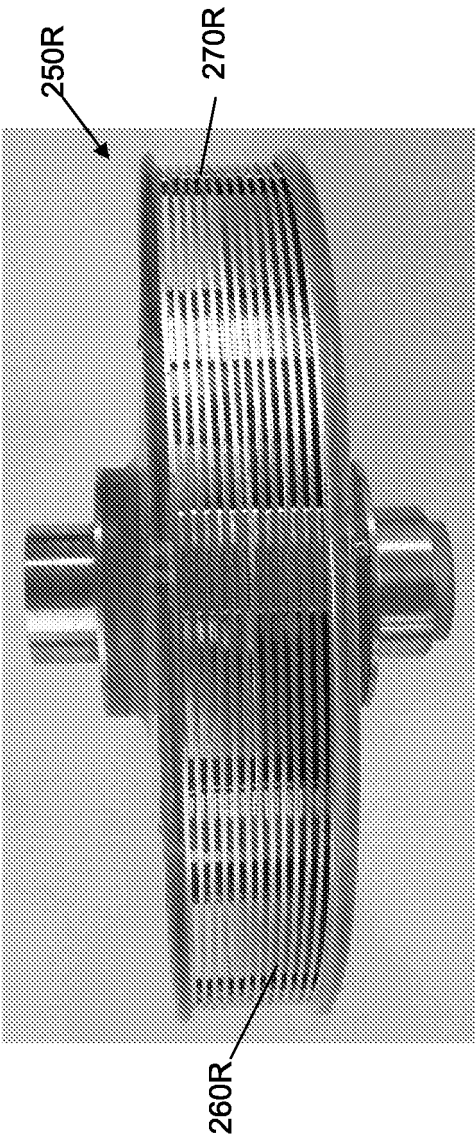


FIG. 37A

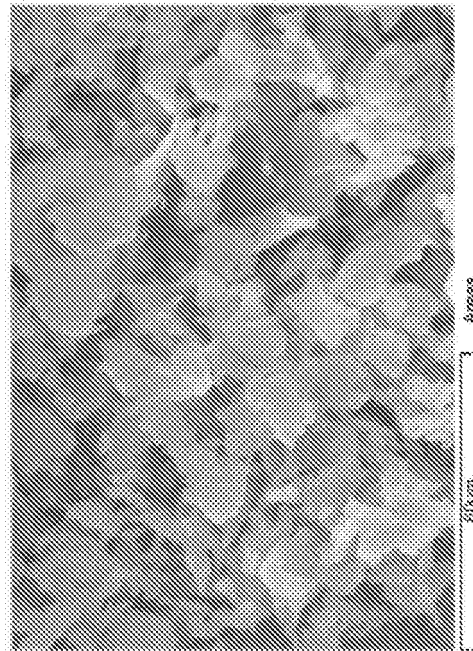


FIG. 38A

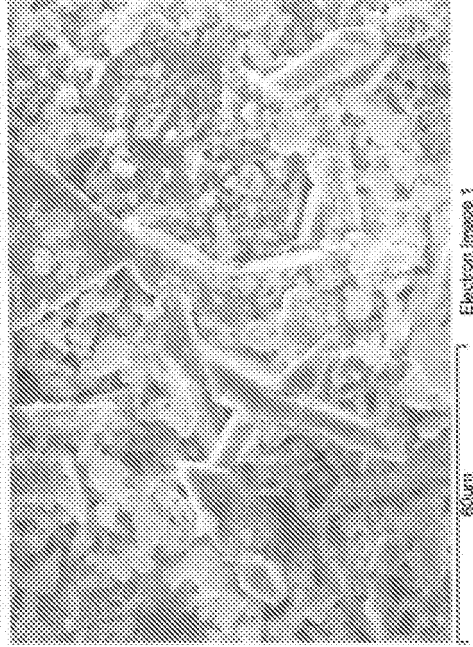


FIG. 38B

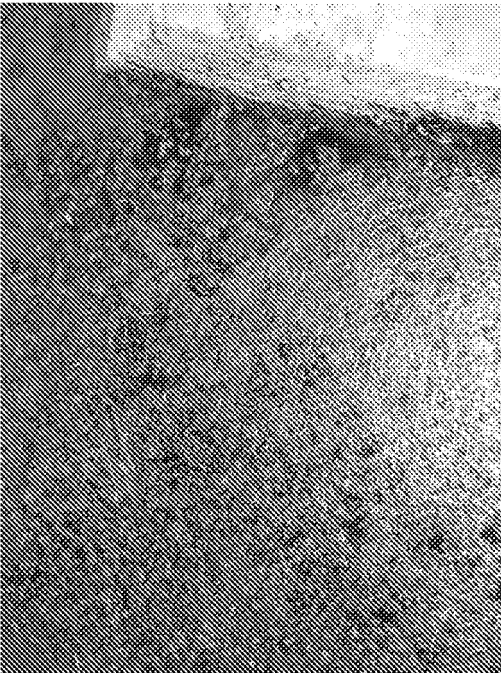


FIG. 39A

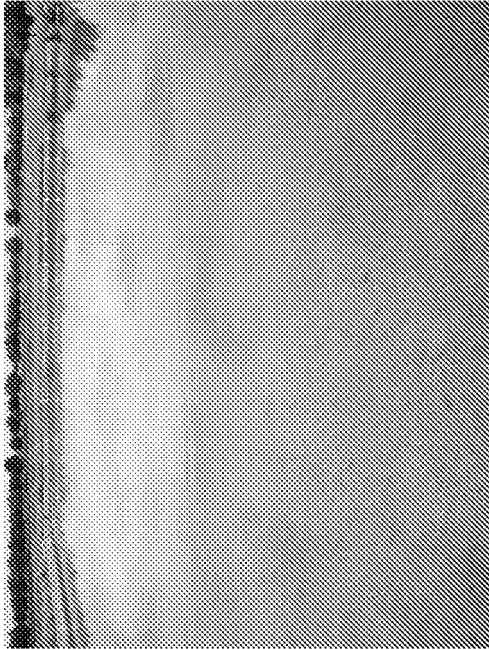


FIG. 39B



FIG. 39C



FIG. 40B

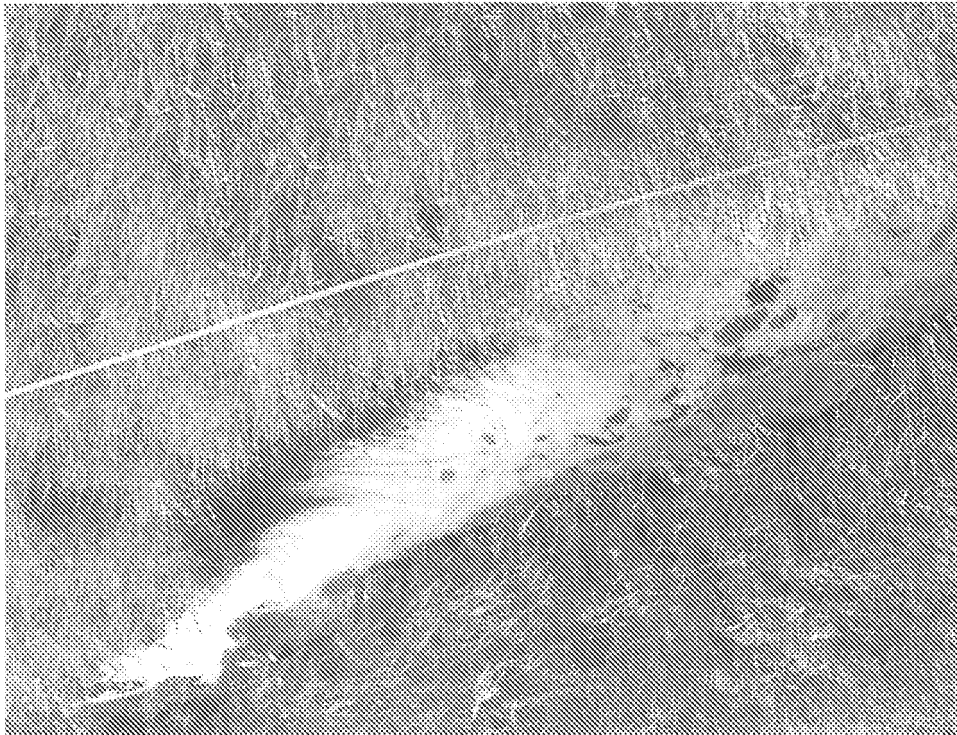


FIG. 40A

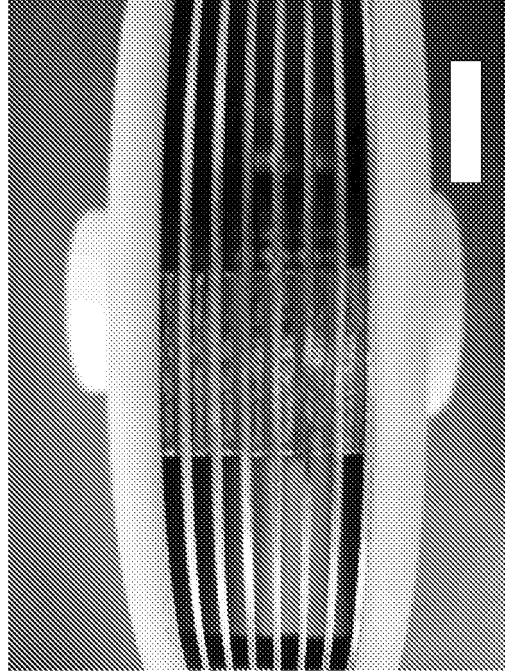


FIG. 41



FIG. 40C

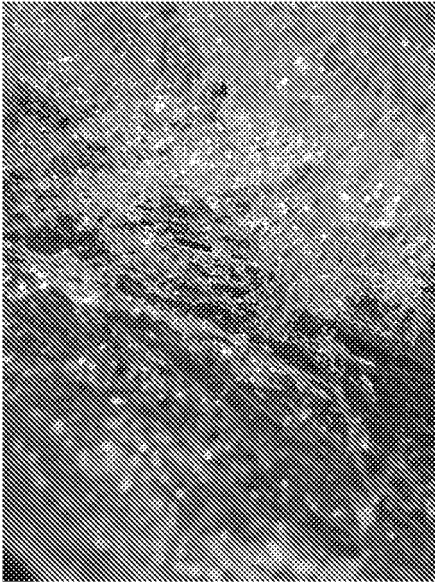


FIG. 42B



FIG. 42D

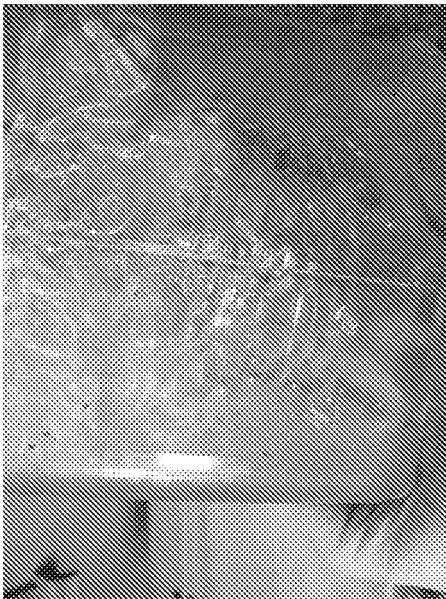


FIG. 42A



FIG. 42C

TESTS PERFORMED BY INSTITUTO POLITECNICO NACIONAL									
WATER SOURCE: CENTRAL PATIO FOUNTAIN, CONTAMINATED AND ALGAE INFESTED LOCATION: ZOULEFAN, MICHOACAN MEXICO									
PARAMETER	INITIAL			AFTER 2 HOURS OF TREATMENT			AFTER 4 HOURS OF TREATMENT		
	SAMPLE 1 S.G.	SAMPLE 2	SAMPLE 3	SAMPLE 1 g	SAMPLE 2	SAMPLE 3	SAMPLE 1 g	SAMPLE 2	SAMPLE 3
PH									
ELECTRIC CONDUCTIVITY									
TOTAL DISSOLVED SOLIDS	500			500			500		
TOTAL HARDNESS	260			260			260		
CHLORIDES	1099.90			1020.53			1020.54		
AMMONIA NITRATES	0.1			0.1			0.1		
SULFATES	N.D.			N.D.			N.D.		
CADMIUM	2.4			4			3.9		
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	55.8			54.8			54.2		
ZINC	N.D.			N.D.			N.D.		
TOTAL COLIFORMS	2,300,000	1,200,000	1,300,000	3,300,000	2,500,000	2,300,000	1,300	1,300	9,000
FECAL COLIFORMS	270,000	370,000	268,000	9,000	7,000	4,300	110	210	110
E. COLI	POSITIVE	POSITIVE	POSITIVE	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
MOLETS	400	540	320	400	400	300	10	10	10
CLOSTRIDIUM SP	POSITIVE	POSITIVE	POSITIVE	POSITIVE	POSITIVE	POSITIVE	NEGATIVE	NEGATIVE	NEGATIVE
ALGAE	180	189	180	300	370	360	10	10	33
HELMINT EGGS	POSITIVE	POSITIVE	POSITIVE	POSITIVE	POSITIVE	POSITIVE	NEGATIVE	NEGATIVE	NEGATIVE
N.D. NOT DETECTED									
UNITS OF MEAS/METHODOLOGY									
									Minnesotom
									mg/l
									mg/l (as CaCO3)
									grammeter
									EDTA
									Argentometric
									KUPEDAL
									turbidity
									atomic absorption
									atomic absorption
									atomic absorption
									atomic absorption
									atomic absorption
									atomic absorption
									atomic absorption
									NOM-112-5541-94
									NOM-112-5541-94
									WIG-fluorescence
									NOM-113-5541-94
									isolation
									Self-Wick-After
									NOM-003E006-1997

FIG. 43

TESTS PERFORMED BY INSTITUTO POLITECNICO NACIONAL										
WATER SOURCE: IRRIGATION CANAL "VALLADO DEL REY"										
LOCATION: CAMOYA, MICHOACAN MEXICO										
PARAMETER	NOTAL			AFTER 3 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			mmH2O/cm
ELECTRIC CONDUCTIVITY	300			300			300			mg/l
TOTAL DISSOLVED SOLIDS	90			90			90			mg/l (as CaCO3)
TOTAL HARDNESS	64.25			557.13			342.55			g/meter
CHLORIDES	0.1			0.1			0.1			EDTA
AMMONIA NITRATES	N.D.			N.D.			N.D.			ARSANOMATIC
SULFATES	5.7			4.6			4.6			KH2EDTA
CADMIUM	N.D.			N.D.			N.D.			turbidity
COPPER	N.D.			N.D.			N.D.			atomic absorption
IRON	1.4			1.4			1.4			atomic absorption
MANGANESE	N.D.			N.D.			N.D.			atomic absorption
LEAD	0.1			0.1			0.1			atomic absorption
POTASSIUM	1.3			1.3			1.3			atomic absorption
SODIUM	15			17.9			17.9			atomic absorption
ZINC	0.1			0.1			0.1			atomic absorption
TOTAL COLIFORMS	71,400,000.00	71,600,000.00	71,400,000.00	2,600,000	2,300,000	2,100,000	38,000	24,000	17,000	NOM-113-55A1-94
FECAL COLIFORMS	1,000,000.00	3,300,000.00	1,200,000.00	210,000	930,000	110,000	240,000	240,000	110,000	NOM-113-55A1-94
E. COLI	POSITIVE	POSITIVE	POSITIVE	POSITIVE	POSITIVE	POSITIVE	ABSENT	ABSENT	ABSENT	MUSE-HUSTRANCE
NOCTES	1000	4000	6000	720	800	520	200	100	600	NOM-113-55A1-94
CLOSTRIDIUM SP	POSITIVE	POSITIVE	POSITIVE	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE	NEGATIVE	POSITIVE	isolation
ALGAE	3500	3700	3500	260	270	300	200	210	30	Sed-Vich-Ruber
HELMINTH EGGS	POSITIVE	POSITIVE	POSITIVE	POSITIVE	POSITIVE	POSITIVE	NEGATIVE	NEGATIVE	NEGATIVE	NOM-003ECOL-1997
N.D. NOT DETECTED										

FIG. 44