

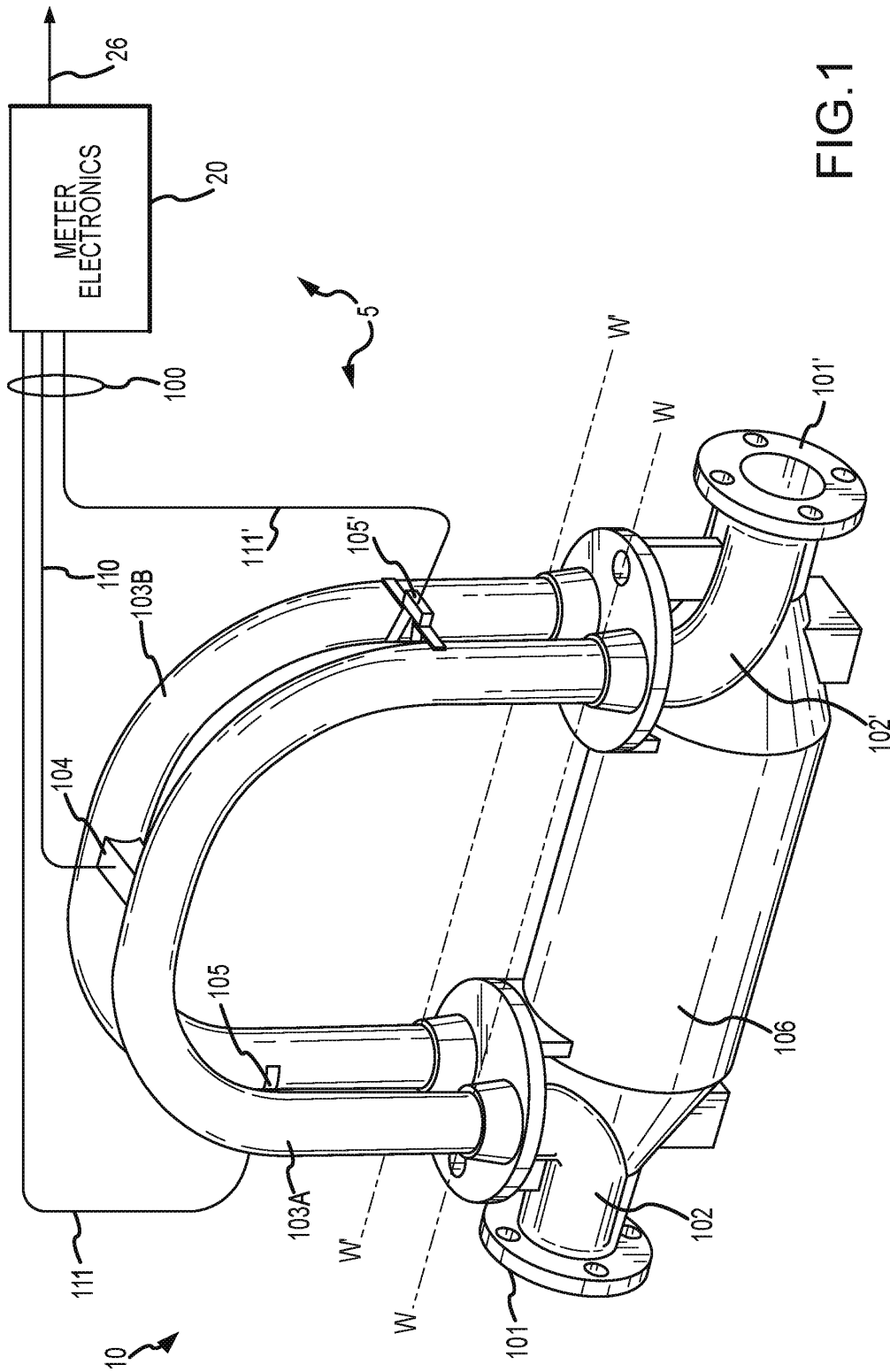


FIG.1

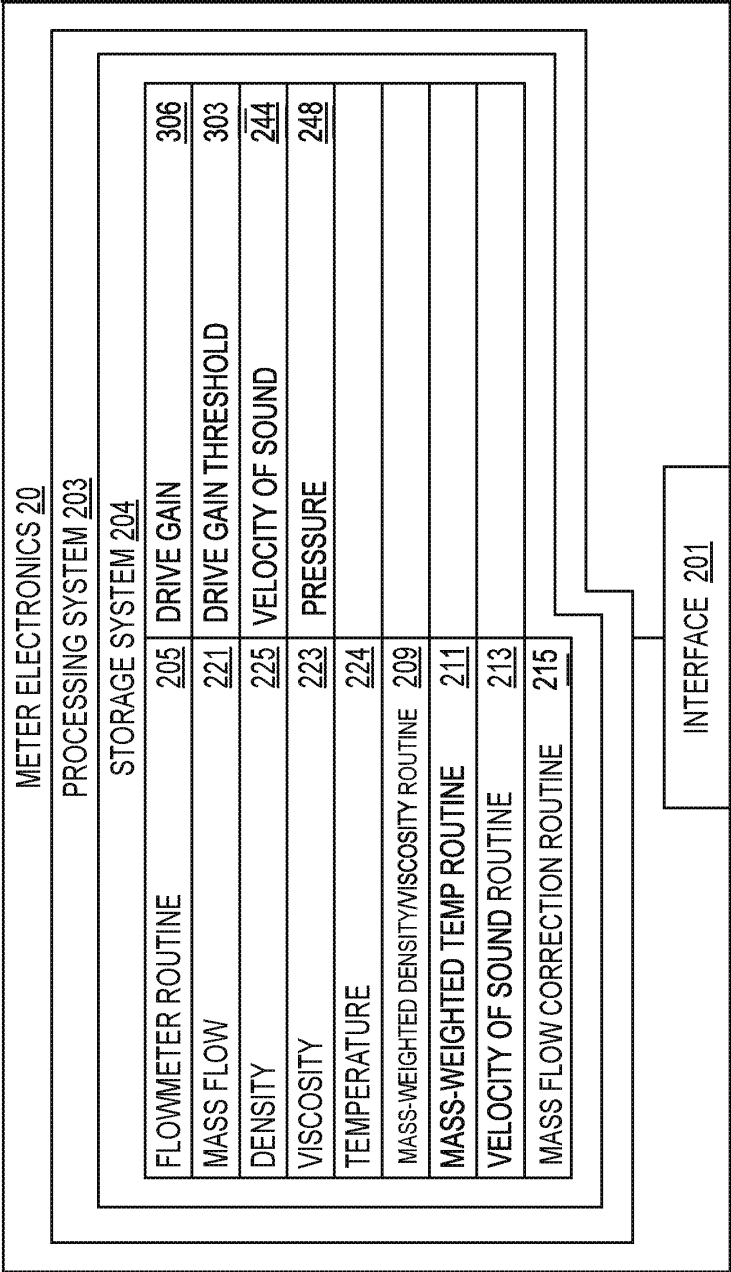


FIG.2

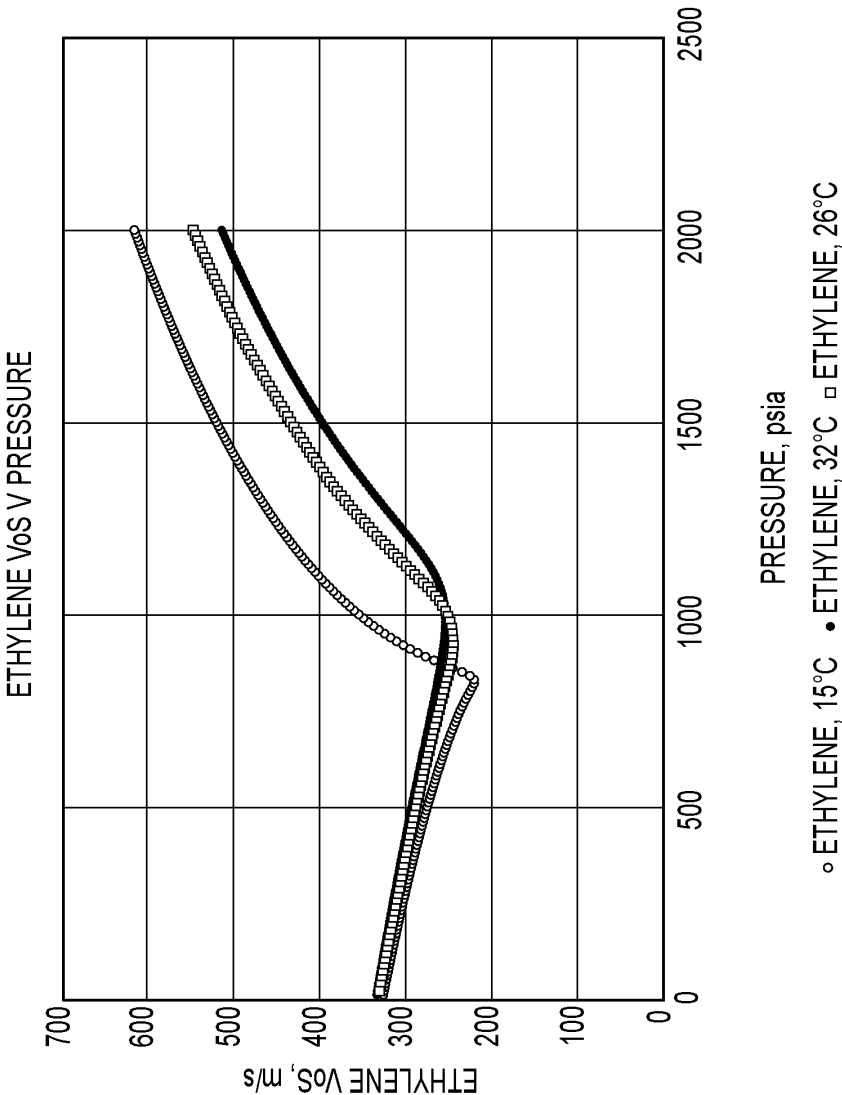


FIG.3

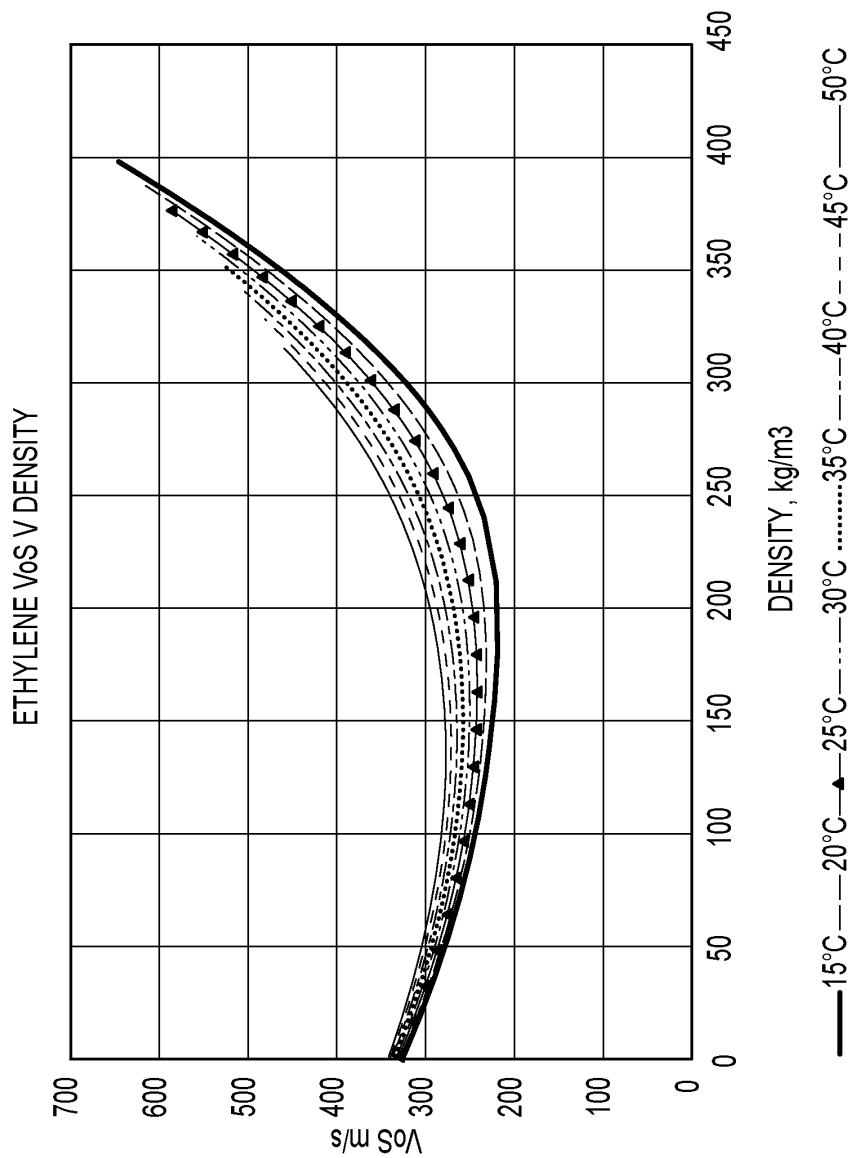


FIG. 4

		ETHYLENE VELOCITY OF SOUND, m/s									
		TEMPERATURE °C									
DENSITY, kg/m ³		15	20	25	30	35	40	45	50		
		300.5	303.65	306.77	309.82	312.82	315.77	318.7	321.57		
25		277.91	281.92	285.84	289.68	293.42	297.1	300.7	304.24		
50		259.12	263.97	268.86	273.52	278.04	282.46	286.76	290.98		
75		244.27	250.08	256.05	261.58	266.94	272.12	277.16	282.07		
100		233.03	238.3	247.36	253.92	260.19	266.22	272.05	277.7		
125		224.93	231.73	242.64	250.52	257.91	264.9	271.62	278.08		
150		219.81	231.83	242.18	251.7	260.39	268.57	276.27	283.64		
175		219.83	234	247.18	258.38	268.55	277.98	286.76	295.07		
200		226.78	242.75	258.95	272.07	283.74	294.31	304.15	313.42		
225		243.36	262.75	280.22	294.76	307.51	319.14	329.91	340.04		
250		274.41	295.52	313.29	328.41	341.91	354.27	365.75	376.59		
275		322.26	341.9	359.71	374.82	388.58	401.25	413.08	424.24		
300		385.64	403.87	420.04	434.63	448.1	460.66	472.42			
325		462.64	474.85	493.88	507.64	520.46					
350		552.37	566.96	580.52							
375		653.77									
400											

FIG.5A

ETHYLENE VELOCITY OF SOUND, m/s		TEMPERATURE °C									
DENSITY, kg/m ³		15	20	25	30	35	40	45	50		
		300.5	303.65	306.77	309.82	312.82	315.77	318.7	321.57		
25		277.91	281.92	285.84	289.68	293.42	297.1	300.7	304.24		
50		259.12	263.97	268.86	273.52	278.04	282.46	286.76	290.98		
75		244.27	250.08	256.05	261.58	266.94	272.12	277.16	282.07		
100		233.03	238.3	247.36	253.92	260.19	266.22	272.05	277.7		
125		224.93	231.73	242.64	250.52	257.91	264.9	271.62	278.08		
150		219.81	231.83	242.18	251.7	260.39	268.57	276.27	283.64		
175		219.83	234	247.18	258.38	268.55	277.98	286.76	295.07		
200		226.78	242.75	258.95	272.07	283.74	294.31	304.15	313.42		
225		243.36	262.75	280.22	294.76	307.51	319.14	329.91	340.04		
250		274.41	295.52	313.29	328.41	341.91	354.27	365.75	376.59		
275		322.26	341.9	359.71	374.82	388.58	401.25	413.08	424.24		
300		385.64	403.87	420.04	434.63	448.1	460.66	472.42	482.58		
325		462.64	474.85	493.88	507.64	520.46	531.73	539.36	542.99		
350		552.37	566.96	580.52	592.33	601.32	605.365	606.42	603.4		
375		653.77	665.87	674.86	679.26	682.34	678.9965	673.47	663.81		
400											

FIG.5B

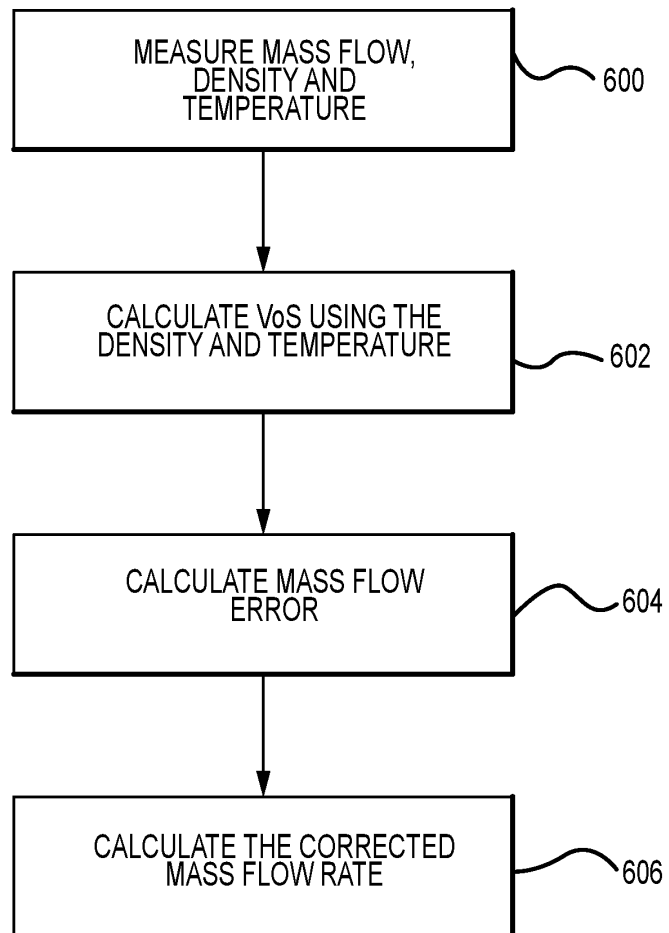


FIG.6

ETHANE VELOCITY OF SOUND VS. TEMPERATURE AND DENSITY																
TEMPERATURE °C	DENSITY kg/m3															
	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	450
-3.9															559.60	710.20
-1.1															571.70	719.90
1.7															584.50	729.10
4.4															595.80	737.90
7.2														472.80	741.50	746.40
10.0														486.60	616.70	753.70
12.8		213.60												498.40	626.30	762.00
15.6		217.10										394.00	509.90	509.90	635.50	768.20
18.3		220.4										406.7	520.9	520.9	644.2	
21.1		223.6										419.6	531.2	531.2	652.7	
23.9		226.7	206.2									333	431.8	540.9	660.9	
26.7		229.7	210.1									348	443.1	550	668.2	
29.4	256	232.7	213.9							281.9	361.3	361.3	453.7	558.8	673.4	
32.2	258.3	235.5	217.4	203.5	191.2				236.9	297.6	373.3	373.3	463.5	567.2		
35.0	260.6	238.4	220.9	207.9	198	190.1	190.8	194.9	215.1	253.9	310.8	384.2	472.8	569.3		
37.8	262.9	241.1	224.3	212	203.6	198.8	199.4	208.2	229.4	267	322.3	394.2	481.6	569.9		

FIG.7

CO2 V0S VS. DENSITY AND TEMPERATURE																
DENSITY kg/m3																
	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
122																715.5
6.7																783.6
11															585.5	683
4.4															604.8	708.1
10.0														523	622.1	
15.6													448.5	542.9	637.4	
21.1													471.9	560		
26.7												411.1	490.5	574.1		
32.2										301.7	382.3	430.7	507.1			
37.8							214.6	240.2	277.5	325.4	382.1	447.9				
43.3			205.7	205.9	210.3	220.0	237.1	263.3	298.9	344.1	398.9					
48.9		216.1	215.2	217.5	223.9	235.5	253.8	280.1	315.2	359.8						

FIG.8