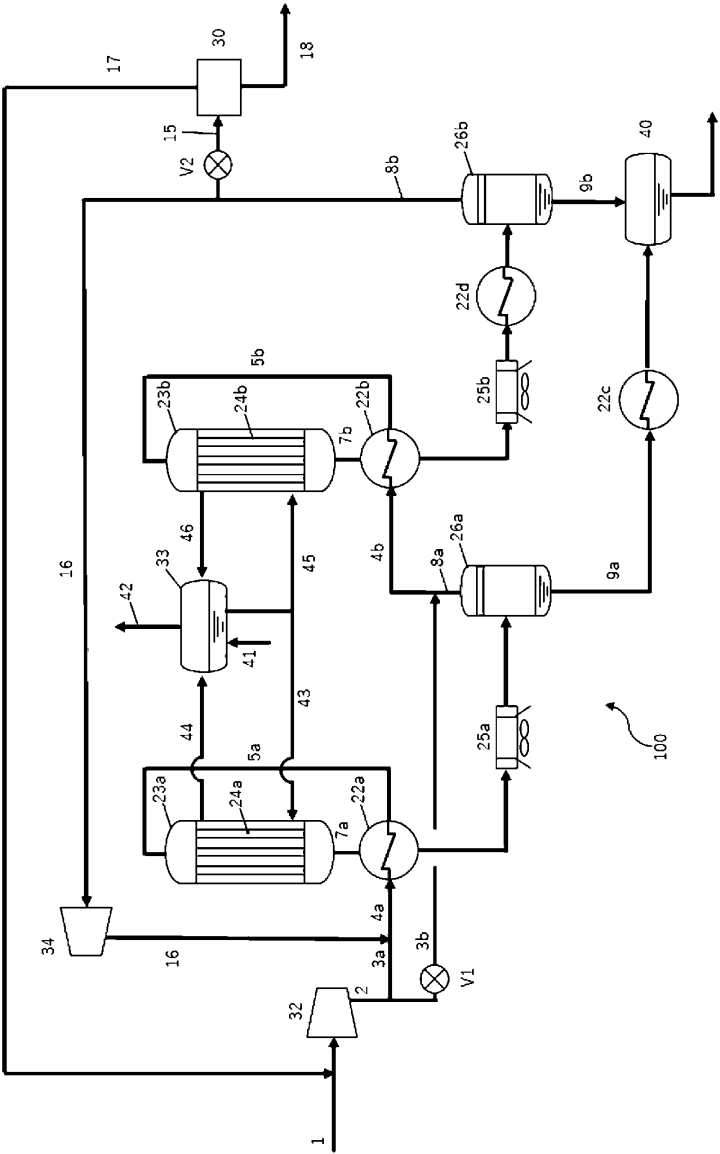
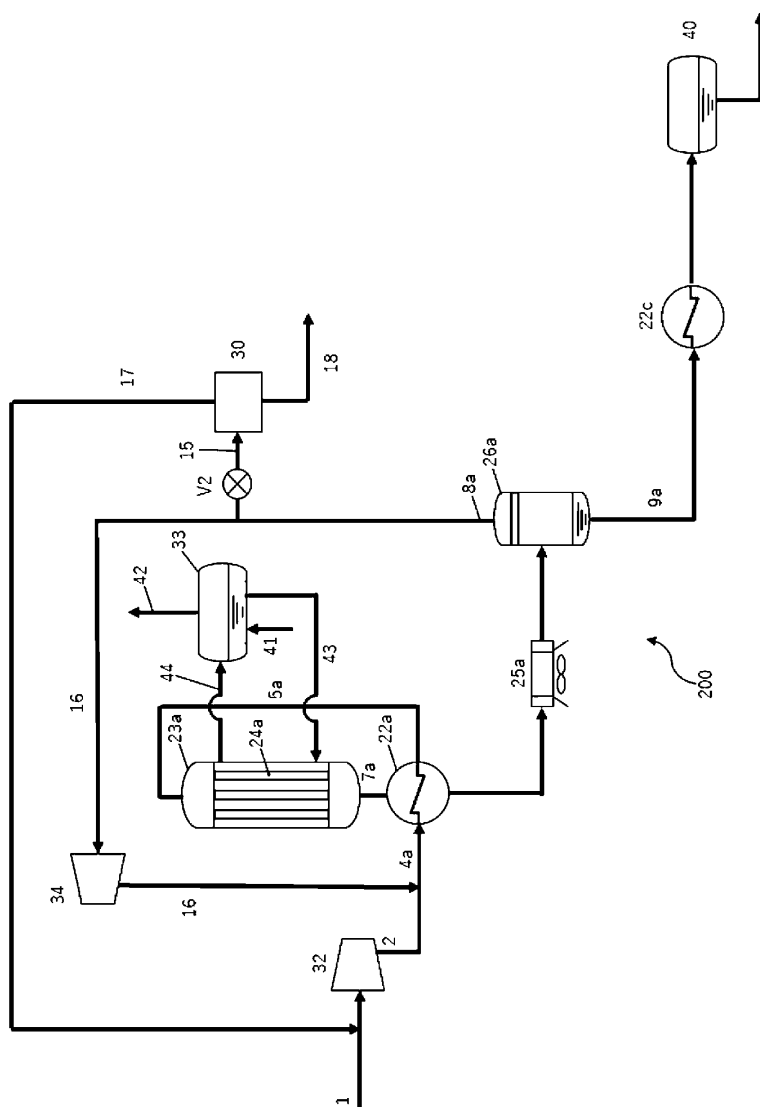


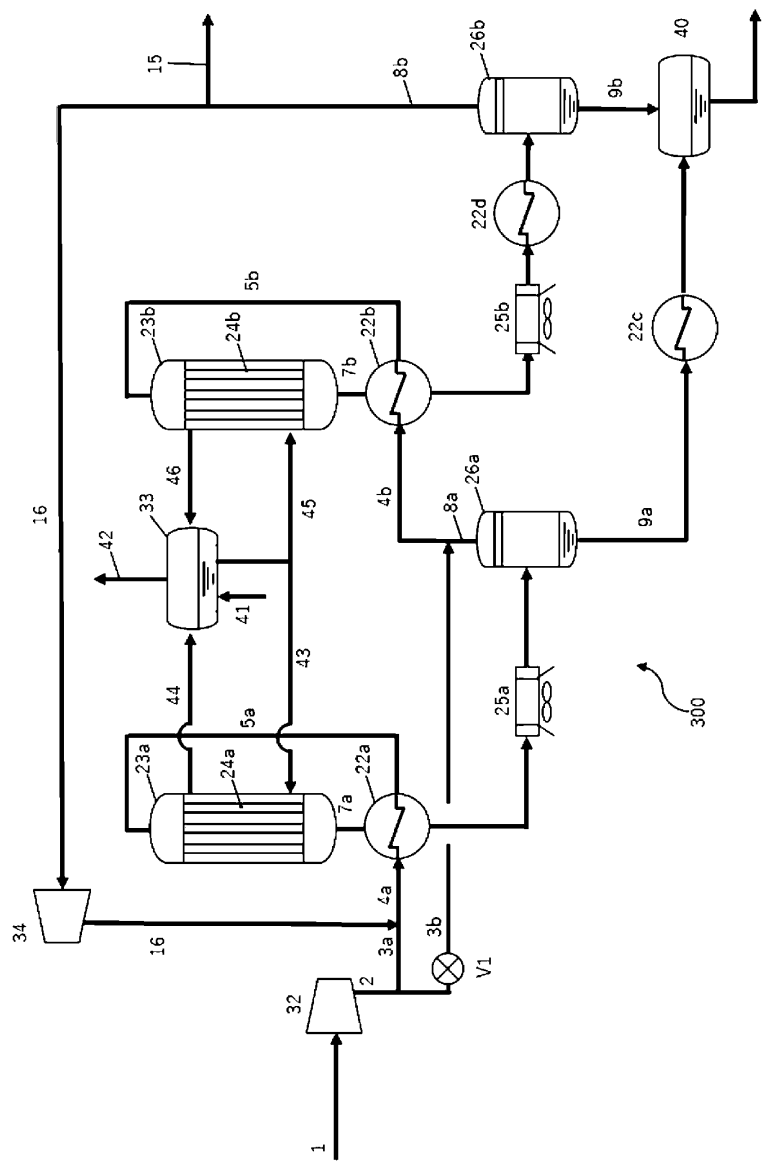
[図1]



[図2]



[図3]



[図4]
実施例 1

ライン番号	温度[°C]	圧力[K/G]	流量[kmol/h]							
			CO2	CO	H2	CH4	N2	H2O	CH3OH	Impurity
1	-	96.66	1380.4	5666.6	15023.4	913.4	0.0	23.0	0.0	0.0
2	108	96.66	1380.4	5666.9	17720.5	913.4	0.0	23.0	0.0	0.0
3a	108.0	96.66	1380.4	5666.9	17720.5	913.4	0.0	23.0	0.0	0.0
3b	108.0	96.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5a	210.0	96.16	2897.3	6724.8	41065.0	7000.5	0.0	30.0	184.5	11.5
7a	261.1	94.36	2421.8	2957.3	32103.7	7000.5	0.0	513.9	4410.5	20.0
8a	75.0	92.86	2388.5	2952.0	32060.8	6989.8	0.0	27.0	839.6	15.9
9a	75.0	92.86	33.3	5.3	42.9	10.7	0.0	486.9	3570.9	4.1
5b	200.0	92.36	2388.5	2952.0	32060.8	6989.8	0.0	27.0	839.6	15.9
7b	255.9	91.20	1776.4	1212.8	26746.1	6989.8	0.0	643.8	3181.5	20.6
8b	45.0	89.70	1735.9	1210.7	26715.8	6966.2	0.0	8.0	211.2	13.2
9b	45.0	89.70	40.5	2.2	30.3	23.6	0.0	635.8	2970.3	7.4
15	45.0	89.70	219.1	152.8	3371.3	879.1	0.0	1.0	26.6	1.7
16	45.0	89.70	1516.9	1057.9	23344.5	6087.2	0.0	7.0	184.5	11.5
17	45	-	0.0	0.3	2697.0	0.0	0.0	0.0	0.0	0.0
18	45	-	219.1	152.5	674.3	879.1	0.0	0.0	0.0	1.7

比較例 1

ライン番号	温度[°C]	圧力[K/G]	流量[kmol/h]							
			CO2	CO	H2	CH4	N2	H2O	CH3OH	Impurity
1	-	118.20	1380.4	5666.6	15023.4	913.4	0.0	23.0	0.0	0.0
2	108	118.20	1380.4	5666.7	17915.7	913.4	0.0	23.0	0.0	0.0
5a	210.0	117.70	2966.5	6283.7	42076.0	6599.0	0.0	27.4	149.1	7.0
7a	250.2	117.35	1943.3	712.8	27864.7	6599.0	0.0	1063.7	6716.9	20.1
8a	45.0	115.85	1823.5	709.2	27775.7	6536.4	0.0	5.0	171.5	8.0
9a	45.0	115.85	119.9	3.6	89.1	62.6	0.0	1058.7	6545.5	12.1
15	45.0	115.85	237.3	92.3	3615.3	850.8	0.0	0.7	22.3	1.0
16	45.0	115.85	1586.1	616.9	24160.3	5685.6	0.0	4.4	149.1	7.0
17	45	-	0.0	0.2	2892.2	0.0	0.0	0.0	0.0	0.0
18	45	-	237.3	92.1	723.1	850.8	0.0	0.0	0.0	1.0

比較例 2

ライン番号	温度[°C]	圧力[K/G]	流量[kmol/h]							
			CO2	CO	H2	CH4	N2	H2O	CH3OH	Impurity
1	-	95.25	1982.5	4859.1	16064.1	393.6	119.5	79.3	0.0	0.0
2	108	95.25	1982.5	4859.2	20020.1	393.6	119.6	79.3	0.0	0.0
3a	108.0	95.25	1982.5	4859.2	20020.1	393.6	119.6	79.3	0.0	0.0
3b	108.0	95.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5a	210.0	94.75	2770.4	5211.1	48673.2	2606.8	801.1	90.0	188.5	10.7
7a	257.1	93.76	1966.3	1399.7	38638.3	2606.8	801.1	903.2	4785.5	19.9
8a	75.0	92.26	1937.2	1397.1	38583.1	2602.6	800.0	40.1	862.2	15.3
9a	75.0	92.26	29.2	2.7	55.2	4.3	1.1	863.1	3923.3	4.6
5b	200.0	91.76	1937.2	1397.1	38583.1	2602.6	800.0	40.1	862.2	15.3
7b	252.7	91.20	942.1	413.2	33630.2	2602.6	800.0	1039.1	2833.2	19.3
8b	45.0	89.70	923.8	412.6	33598.1	2595.2	799.1	12.5	221.0	12.5
9b	45.0	89.70	18.3	0.6	32.0	7.4	0.9	1026.6	2612.3	6.7
15	45.0	89.70	136.0	60.7	4945.0	382.0	117.6	1.8	32.5	1.8
16	45.0	89.70	787.9	351.8	28653.1	2213.2	681.5	10.7	188.5	10.7
17	45	-	0.0	0.1	3956.0	0.0	0.1	0.0	0.0	0.0
18	45	-	136.0	60.6	989.0	382.0	117.5	0.0	0.0	1.8

【図5】
実施例 2 - 1

ライン番号	温度[°C]	圧力[K/G]	流量[kmol/h]							
			CO2	CO	H2	CH4	N2	H2O	CH3OH	Impurity
1	-	73.87	1380.4	5666.6	15023.4	913.4	0.0	23.0	0.0	0.0
2	108	73.87	1380.4	5666.8	17830.3	913.4	0.0	23.0	0.0	0.0
3a	108.0	73.87	1380.4	5666.8	17830.3	913.4	0.0	23.0	0.0	0.0
3b	108.0	73.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5a	210.0	73.37	3012.3	6630.0	41246.3	6846.2	0.0	32.8	240.8	15.1
7a	258.6	71.01	2540.3	2551.6	31673.5	6846.2	0.0	513.8	4773.1	24.1
8a	75.0	69.51	2512.3	2547.9	31640.0	6837.9	0.0	34.0	1065.2	20.1
9a	75.0	69.51	28.0	3.6	33.5	8.3	0.0	479.8	3707.9	4.1
5b	200.0	69.01	2512.3	2547.9	31640.0	6837.9	0.0	34.0	1065.2	20.1
7b	253.8	67.50	1907.0	1108.9	26946.0	6837.9	0.0	643.3	3101.4	24.1
8b	45.0	66.00	1876.4	1107.5	26924.6	6821.7	0.0	11.2	276.9	17.3
9b	45.0	66.00	30.7	1.4	21.4	16.2	0.0	632.1	2824.5	6.8
15	45.0	66.00	244.5	144.3	3508.6	888.9	0.0	1.5	36.1	2.3
16	45.0	66.00	1631.9	963.2	23416.0	5932.8	0.0	9.8	240.8	15.1
17	45	-	0.0	0.3	2806.8	0.0	0.0	0.0	0.0	0.0
18	45	-	244.5	144.1	701.7	888.9	0.0	0.0	0.0	2.3

比較例 4

ライン番号	温度[°C]	圧力[K/G]	流量[kmol/h]							
			CO2	CO	H2	CH4	N2	H2O	CH3OH	Impurity
1	-	95.34	1380.4	5666.6	15023.4	913.4	0.0	23.0	0.0	0.0
2	108	95.34	1380.4	5666.9	17570.5	913.4	0.0	23.0	0.0	0.0
3a	108.0	95.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3b	108.0	95.34	1380.4	5666.9	17570.5	913.4	0.0	23.0	0.0	0.0
5a	210.0	94.84	1353.6	1404.9	25542.5	6257.8	0.0	3.4	185.1	9.7
7a	251.1	94.32	583.0	191.8	20804.5	6257.8	0.0	777.9	2160.9	13.7
8a	75.0	92.82	577.0	191.5	20784.2	6250.8	0.0	38.8	526.5	11.0
9a	75.0	92.82	6.1	0.3	20.3	7.0	0.0	739.0	1634.4	2.7
5b	200.0	92.32	1957.4	5858.1	35807.6	7164.2	0.0	61.8	526.5	11.0
7b	258.2	90.88	1600.5	1603.7	26228.5	7164.2	0.0	427.9	5119.3	20.2
8b	45.0	89.38	1541.0	1599.0	26179.3	7124.2	0.0	3.8	210.7	11.1
9b	45.0	89.38	59.5	4.7	49.2	39.9	0.0	424.0	4908.6	9.1
15	45.0	89.38	187.4	194.5	3183.9	866.4	0.0	0.5	25.6	1.3
16	45.0	89.38	1353.6	1404.6	22995.4	6257.8	0.0	3.4	185.1	9.7
17	45	-	0.0	0.4	2547.1	0.0	0.0	0.0	0.0	0.0
18	45	-	187.4	194.1	636.8	866.4	0.0	0.0	0.0	1.3

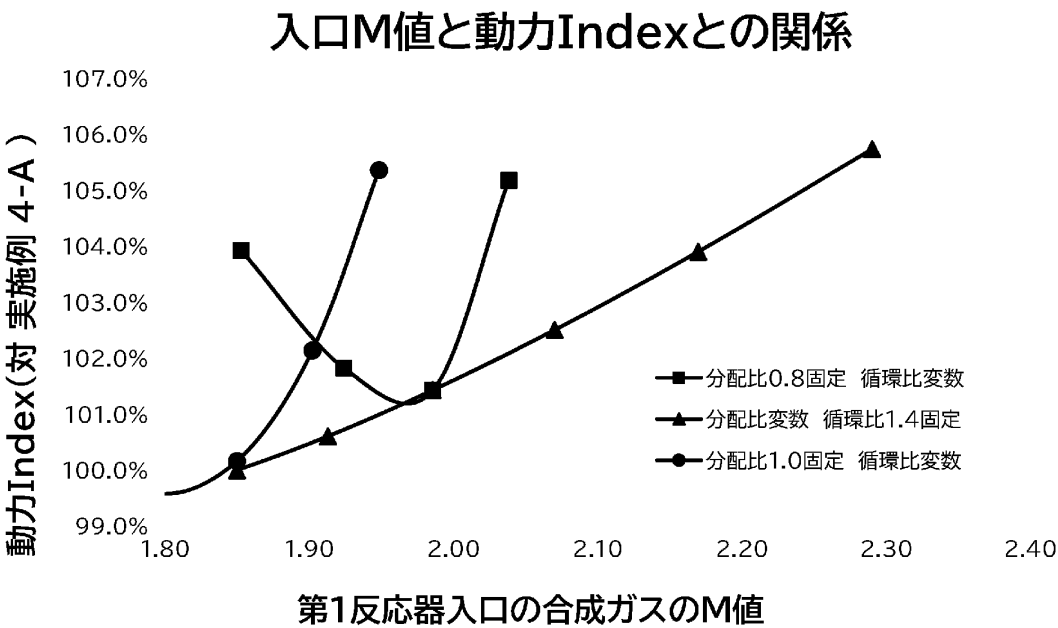
【図6】
実施例 3

ライン番号	温度[°C]	圧力[K/G]	流量[kmol/h]							
			CO2	CO	H2	CH4	N2	H2O	CH3OH	Impurity
1	-	75.8	1380.4	5666.6	15023.4	913.4	0.0	23.0	0.0	0.0
2	108.0	75.8	1380.4	5666.8	17799.4	913.4	0.0	23.0	0.0	0.0
3a	108.0	75.8	1104.3	4533.5	14239.5	730.7	0.0	18.4	0.0	0.0
3b	108.0	75.8	276.1	1133.4	3559.9	182.7	0.0	4.6	0.0	0.0
5a	210.0	75.3	2707.7	5548.0	38159.6	6701.4	0.0	27.1	233.2	14.2
7a	257.2	73.4	2195.0	1804.7	29134.9	6701.4	0.0	548.3	4472.3	22.6
8a	75.0	71.9	2169.0	1802.0	29101.7	6692.6	0.0	33.1	943.3	18.5
9a	75.0	71.9	26.1	2.8	33.2	8.7	0.0	515.2	3528.9	4.1
5b	200.0	71.4	2445.1	2935.3	32106.3	6875.3	0.0	37.7	943.3	18.5
7b	254.4	69.9	1874.7	1166.8	26858.3	6875.3	0.0	612.6	3272.9	23.2
8b	45.0	68.4	1841.5	1165.2	26834.8	6857.4	0.0	10.0	267.9	16.3
9b	45.0	68.4	33.2	1.6	23.5	17.9	0.0	602.6	3005.0	6.9
15	45.0	68.4	238.1	150.7	3470.0	886.7	0.0	1.3	34.6	2.1
16	45.0	68.4	1603.4	1014.5	23364.8	5970.7	0.0	8.7	233.2	14.2
17	45.0	-	0.0	0.3	2776.0	0.0	0.0	0.0	0.0	0.0
18	45.0	-	238.1	150.4	694.0	886.7	0.0	0.0	0.0	2.1

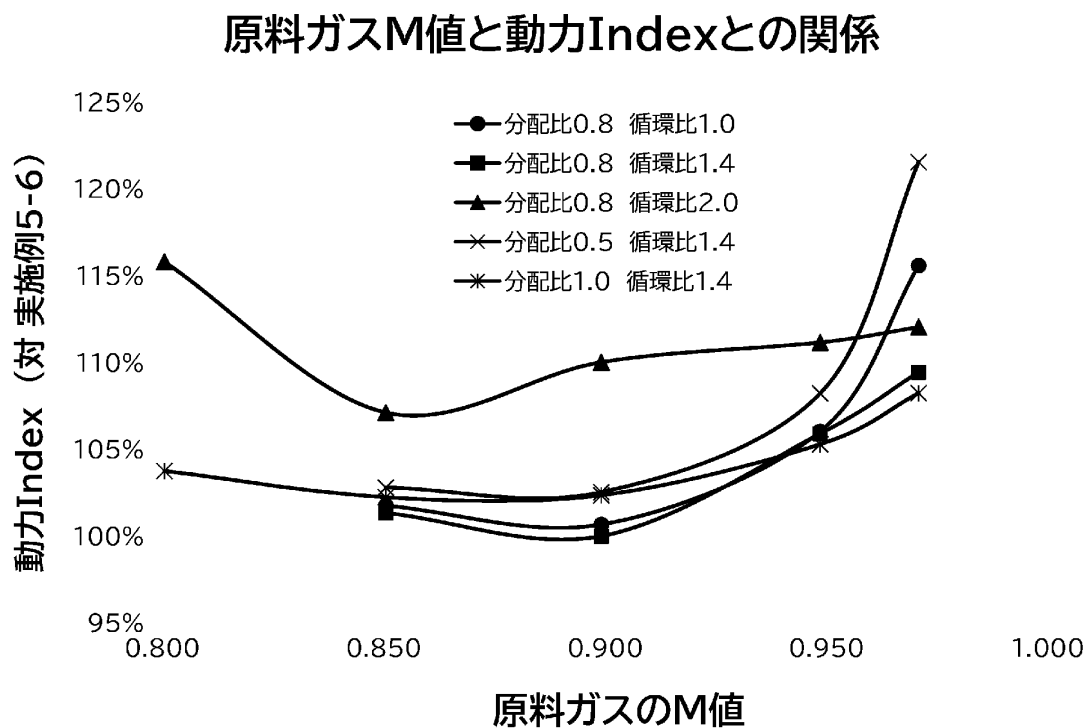
比較例 5

ライン番号	温度[°C]	圧力[K/G]	流量[kmol/h]							
			CO2	CO	H2	CH4	N2	H2O	CH3OH	Impurity
2	108.0	102.1	1380.4	5666.6	15023.4	913.4	0.0	23.0	0.0	0.0
3a	108.0	102.1	1104.3	4533.3	12018.7	730.7	0.0	18.4	0.0	0.0
3b	108.0	102.1	276.1	1133.3	3004.7	182.7	0.0	4.6	0.0	0.0
5a	210.0	101.6	4586.5	5765.9	25273.0	14777.3	0.0	24.6	175.9	11.6
7a	256.7	99.8	4113.4	1985.9	16293.7	14777.3	0.0	506.2	4412.0	20.1
8a	75.0	98.3	4039.9	1981.2	16264.7	14747.3	0.0	20.4	666.5	15.0
9a	75.0	98.3	73.5	4.8	29.0	30.0	0.0	485.8	3745.5	5.1
5b	200.0	97.8	4316.0	3114.5	19269.4	14930.0	0.0	25.0	666.5	15.0
7b	254.1	96.4	3781.7	1307.9	14053.5	14930.0	0.0	563.9	2998.0	19.6
8b	45.0	94.9	3687.7	1305.4	14036.3	14875.5	0.0	6.6	186.3	12.3
9b	45.0	94.9	94.1	2.5	17.2	54.5	0.0	557.3	2811.7	7.3
15	45.0	94.9	205.5	72.7	782.1	828.8	0.0	0.4	10.4	0.7
16	45.0	94.9	3482.2	1232.7	13254.2	14046.7	0.0	6.2	175.9	11.6

【図7】



[図8]



[図9]
実施例5-2

ライン番号	温度[°C]	圧力[K/G]	流量[kmol/h]							
			CO2	CO	H2	CH4	N2	H2O	CH3OH	Impurity
1	-	87.02	1428.5	6180.1	14967.8	934.3	0.0	23.5	0.0	0.0
2	108	87.02	1428.5	6180.8	18531.9	934.3	0.0	23.5	0.0	0.0
3a	108.0	87.02	1142.8	4944.7	14825.5	747.4	0.0	18.8	0.0	0.0
3b	108.0	87.02	285.7	1236.2	3706.4	186.9	0.0	4.7	0.0	0.0
5a	210.0	86.52	3011.8	6431.9	32160.0	4142.9	0.0	23.1	147.7	8.9
7a	260.7	85.17	2627.5	2827.7	23798.5	4142.9	0.0	415.4	4120.4	16.9
8a	75.0	83.67	2586.3	2821.9	23761.8	4135.6	0.0	19.6	690.2	13.1
9a	75.0	83.67	41.2	5.9	36.7	7.3	0.0	395.8	3430.3	3.8
5b	200.0	83.17	2872.0	4057.9	26755.4	4322.5	0.0	24.3	690.2	13.1
7b	257.5	82.11	2433.9	1889.6	21104.6	4322.5	0.0	467.6	3286.1	18.2
8b	45.0	80.61	2370.0	1885.7	21076.8	4305.6	0.0	5.5	187.4	11.3
9b	45.0	80.61	63.9	3.9	27.7	16.9	0.0	462.2	3098.8	6.9
15	45.0	80.61	501.0	398.6	4455.2	910.1	0.0	1.2	39.6	2.4
16	45.0	80.61	1869.0	1487.1	16621.6	3395.5	0.0	4.3	147.7	8.9
17	45	-	0.0	0.7	3564.1	0.0	0.0	0.0	0.0	0.0
18	45	-	501.0	397.9	891.1	910.1	0.0	0.0	0.0	2.4

実施例5-6

ライン番号	温度[°C]	圧力[K/G]	流量[kmol/h]							
			CO2	CO	H2	CH4	N2	H2O	CH3OH	Impurity
1	-	85.18	1428.5	6180.1	14967.8	934.3	0.0	23.5	0.0	0.0
2	108	85.18	1428.5	6180.9	18296.0	934.3	0.0	23.5	0.0	0.0
3a	108.0	85.18	1142.8	4944.8	14636.8	747.4	0.0	18.8	0.0	0.0
3b	108.0	85.18	285.7	1236.2	3659.2	186.9	0.0	4.7	0.0	0.0
5a	210.0	84.68	3589.1	7463.9	38075.9	5723.6	0.0	25.0	214.1	12.8
7a	261.3	82.67	3155.0	3933.5	29712.8	5723.6	0.0	467.0	4162.8	20.7
8a	75.0	81.17	3119.0	3927.6	29679.6	5716.3	0.0	29.2	903.6	17.0
9a	75.0	81.17	36.0	5.9	33.1	7.3	0.0	437.8	3259.2	3.7
5b	200.0	80.67	3404.7	5163.6	32673.2	5903.1	0.0	33.9	903.6	17.0
7b	258.3	78.96	2953.9	2984.0	26961.3	5903.1	0.0	490.0	3523.6	22.2
8b	45.0	77.46	2893.2	2979.2	26933.8	5885.2	0.0	7.4	253.2	15.1
9b	45.0	77.46	60.6	4.8	27.5	18.0	0.0	482.7	3270.4	7.2
15	45.0	77.46	446.9	460.2	4160.3	909.1	0.0	1.1	39.1	2.3
16	45.0	77.46	2446.3	2519.0	22773.4	4976.1	0.0	6.2	214.1	12.8
17	45	-	0.0	0.8	3328.2	0.0	0.0	0.0	0.0	0.0
18	45	-	446.9	459.3	832.1	909.1	0.0	0.0	0.0	2.3

実施例5-10

ライン番号	温度[°C]	圧力[K/G]	流量[kmol/h]							
			CO2	CO	H2	CH4	N2	H2O	CH3OH	Impurity
1	-	81.20	1473.3	6571.0	14936.3	951.0	0.0	24.0	0.0	0.0
2	108	81.20	1473.3	6572.5	18312.0	951.0	0.0	24.0	0.0	0.0
3a	108.0	81.20	1178.6	5258.0	14649.6	760.8	0.0	19.2	0.0	0.0
3b	108.0	81.20	294.7	1314.5	3662.4	190.2	0.0	4.8	0.0	0.0
5a	210.0	80.70	5039.7	11205.0	46253.1	7566.7	0.0	28.1	340.6	19.5
7a	262.4	76.92	4598.7	7645.0	37810.1	7566.7	0.0	477.1	4325.7	27.5
8a	75.0	75.42	4565.3	7637.7	37783.4	7560.6	0.0	44.9	1308.2	24.1
9a	75.0	75.42	33.4	7.3	26.7	6.1	0.0	432.2	3017.5	3.3
5b	200.0	74.92	4859.9	8951.9	40770.7	7750.8	0.0	49.7	1308.2	24.1
7b	259.1	71.38	4451.6	6765.6	35173.0	7750.8	0.0	463.2	3892.5	29.3
8b	45.0	69.88	4387.8	6758.1	35148.1	7734.4	0.0	10.2	387.1	22.1
9b	45.0	69.88	63.7	7.5	24.9	16.4	0.0	453.0	3505.4	7.2
15	45.0	69.88	526.8	811.3	4219.8	928.6	0.0	1.2	46.5	2.7
16	45.0	69.88	3861.1	5946.7	30928.3	6805.8	0.0	9.0	340.6	19.5
17	45	-	0.0	1.5	3375.8	0.0	0.0	0.0	0.0	0.0
18	45	-	526.8	809.9	844.0	928.6	0.0	0.0	0.0	2.7

[図10]
実施例5-15

ライン番号	温度[°C]	圧力[K/G]	流量[kmol/h]							
			CO2	CO	H2	CH4	N2	H2O	CH3OH	Impurity
1	-	86.64	1428.5	6180.1	14967.8	934.3	0.0	23.5	0.0	0.0
2	108	86.64	1428.5	6181.0	18237.0	934.3	0.0	23.5	0.0	0.0
3a	108.0	86.64	714.3	3090.5	9118.5	467.2	0.0	11.8	0.0	0.0
3b	108.0	86.64	714.3	3090.5	9118.5	467.2	0.0	11.8	0.0	0.0
5a	210.0	86.14	3112.2	5723.3	33414.2	5496.8	0.0	17.5	209.3	12.0
7a	259.8	84.71	2635.8	2449.1	25436.6	5496.8	0.0	501.3	3944.9	19.5
8a	75.0	83.21	2600.2	2444.7	25402.9	5488.4	0.0	26.2	748.4	15.5
9a	75.0	83.21	35.6	4.4	33.7	8.3	0.0	475.1	3196.5	4.0
5b	200.0	82.71	3314.4	5534.7	32886.8	5955.6	0.0	37.9	748.4	15.5
7b	258.9	81.03	2892.5	3112.3	26776.3	5955.6	0.0	465.5	3581.4	21.1
8b	45.0	79.53	2830.3	3107.1	26747.6	5936.6	0.0	6.8	247.0	14.2
9b	45.0	79.53	62.2	5.2	28.7	19.0	0.0	458.7	3334.4	7.0
15	45.0	79.53	432.4	474.7	4086.5	907.0	0.0	1.0	37.7	2.2
16	45.0	79.53	2397.9	2632.4	22661.1	5029.6	0.0	5.7	209.3	12.0
17	45	-	0.0	0.9	3269.2	0.0	0.0	0.0	0.0	0.0
18	45	-	432.4	473.8	817.3	907.0	0.0	0.0	0.0	2.2

実施例5-19

ライン番号	温度[°C]	圧力[K/G]	流量[kmol/h]							
			CO2	CO	H2	CH4	N2	H2O	CH3OH	Impurity
1	-	81.06	1473.3	6571.0	14936.3	951.0	0.0	24.0	0.0	0.0
2	108	81.06	1473.3	6572.3	18629.4	951.0	0.0	24.0	0.0	0.0
3a	108.0	81.06	1473.3	6572.3	18629.4	951.0	0.0	24.0	0.0	0.0
3b	108.0	81.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5a	210.0	80.56	4384.3	10104.5	40970.7	5452.6	0.0	29.9	231.9	13.8
7a	262.3	77.70	4006.3	6456.8	32541.4	5452.6	0.0	415.9	4241.5	21.8
8a	75.0	76.20	3969.9	6449.1	32512.5	5447.1	0.0	32.7	1089.5	18.6
9a	75.0	76.20	36.4	7.7	28.9	5.5	0.0	383.2	3152.1	3.2
5b	200.0	75.70	3969.9	6449.1	32512.5	5447.1	0.0	32.7	1089.5	18.6
7b	258.7	73.62	3580.6	4268.3	26983.2	5447.1	0.0	427.1	3649.3	23.8
8b	45.0	72.12	3512.5	4262.0	26957.7	5431.8	0.0	7.1	279.8	16.6
9b	45.0	72.12	68.1	6.3	25.5	15.3	0.0	419.9	3369.4	7.1
15	45.0	72.12	601.5	729.9	4616.4	930.2	0.0	1.2	47.9	2.8
16	45.0	72.12	2911.0	3532.2	22341.3	4501.6	0.0	5.9	231.9	13.8
17	45	-	0.0	1.3	3693.1	0.0	0.0	0.0	0.0	0.0
18	45	-	601.5	728.5	923.3	930.2	0.0	0.0	0.0	2.8