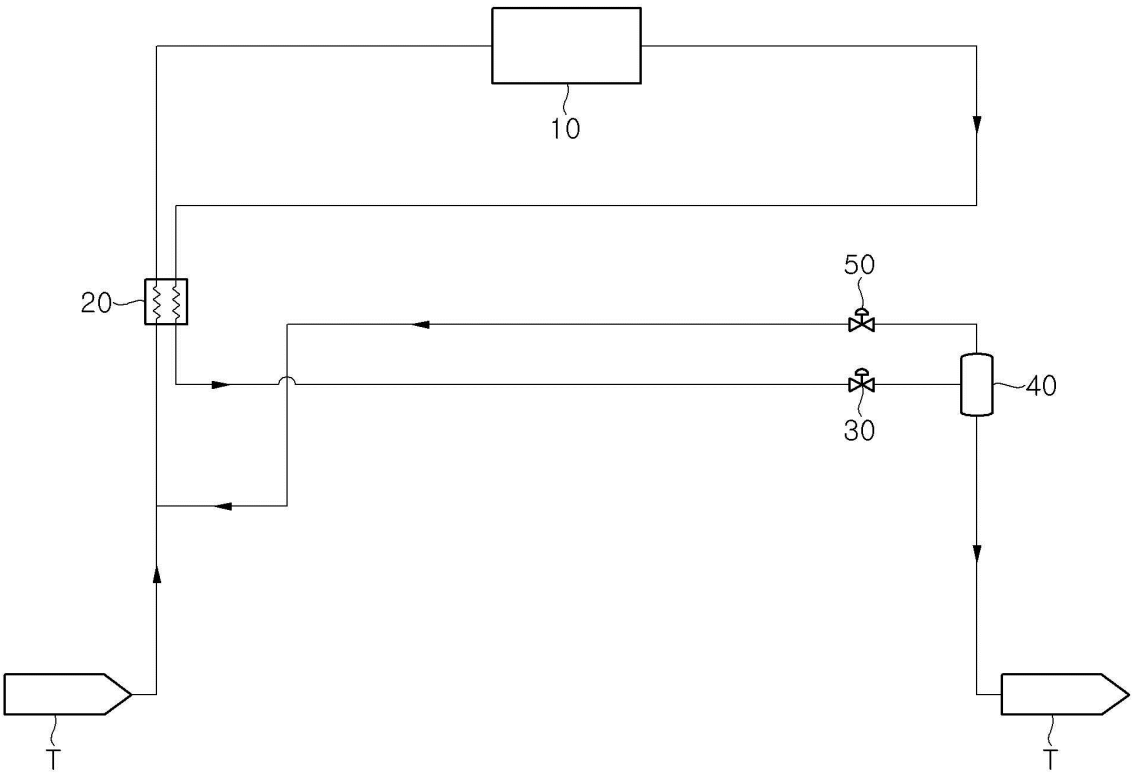
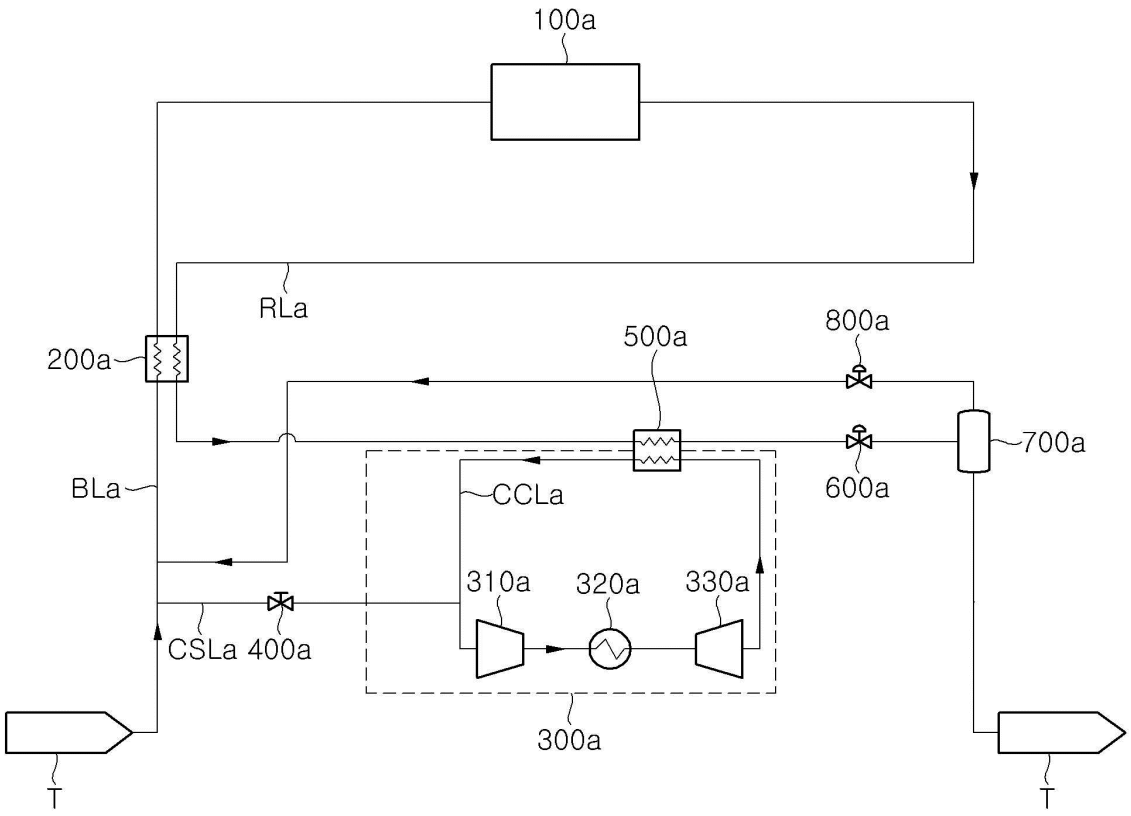
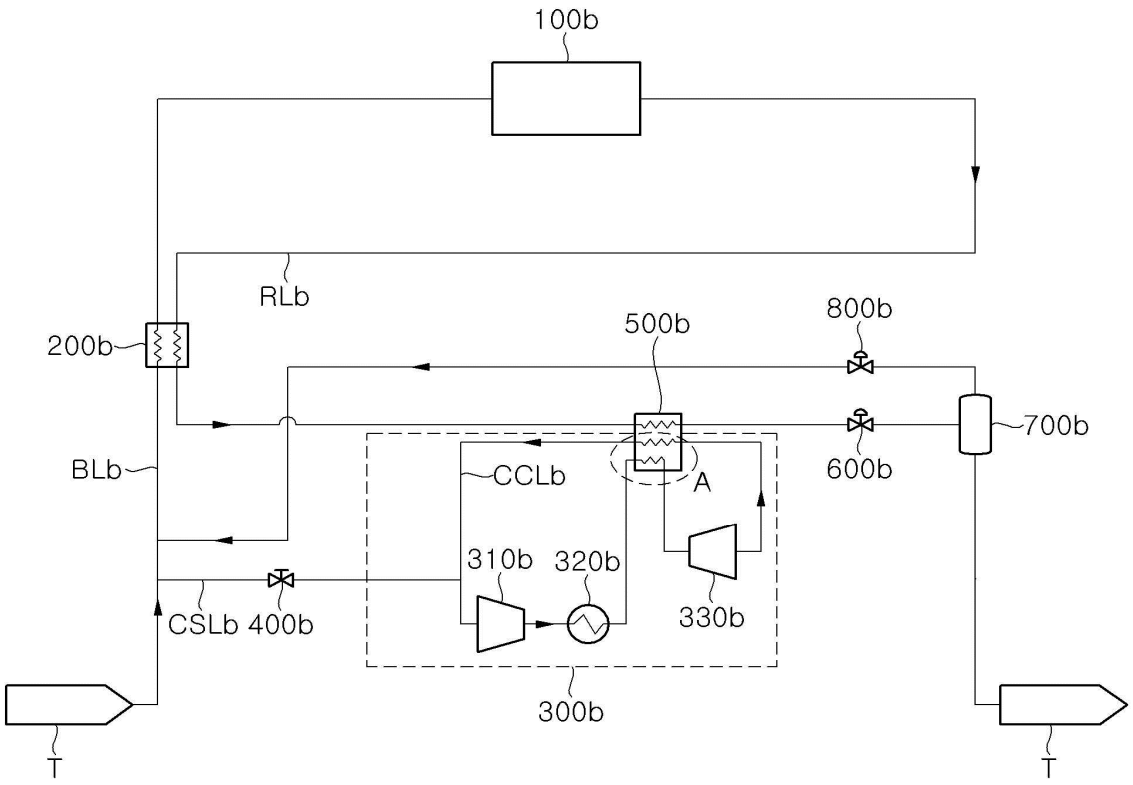
[FIG 1]



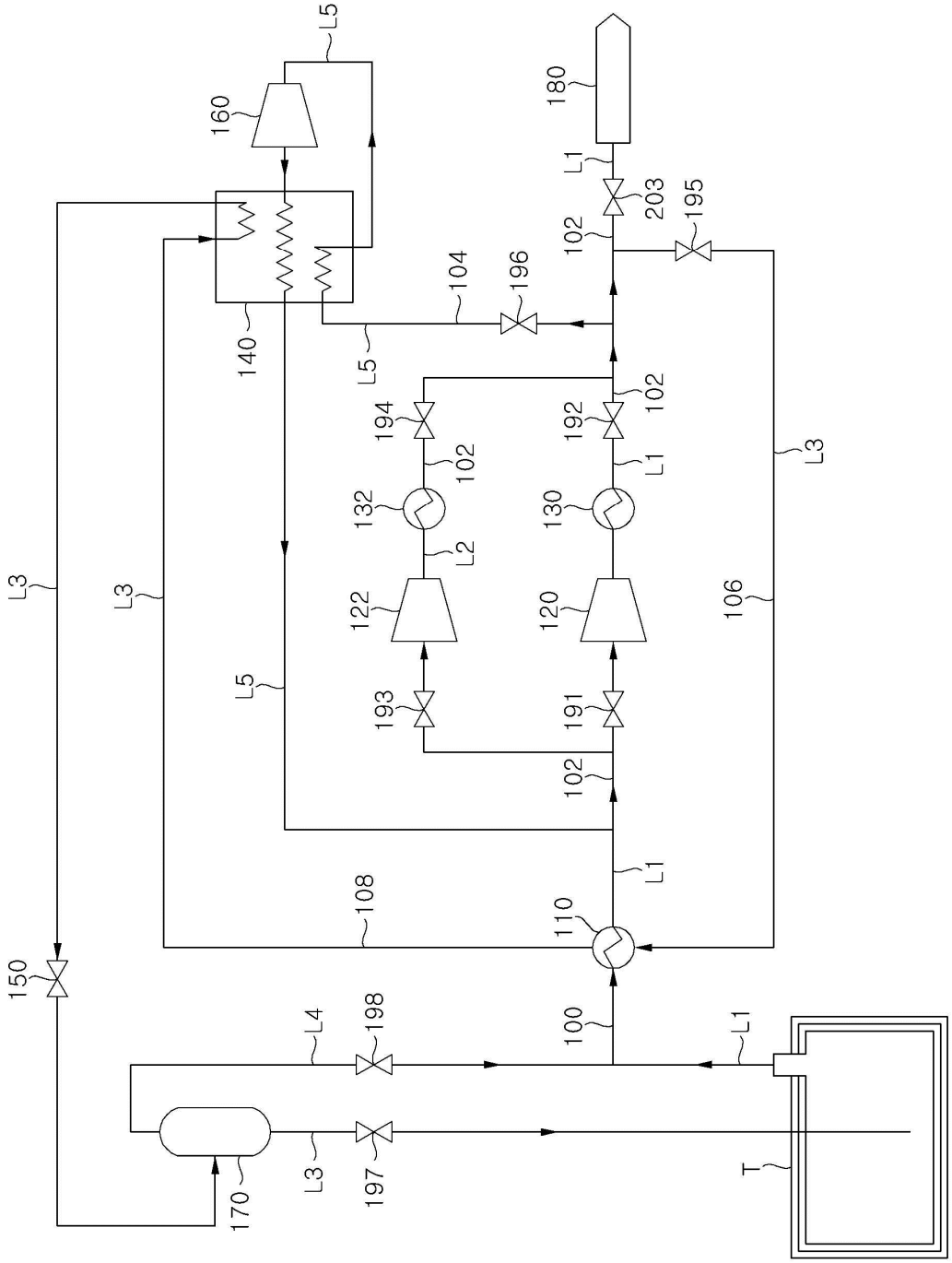
[FIG 2]


100a
RLa
200a
500a
800a
700a
BLa
CCLa
600a
310a
320a
330a
CSLa
400a
300a
T
T

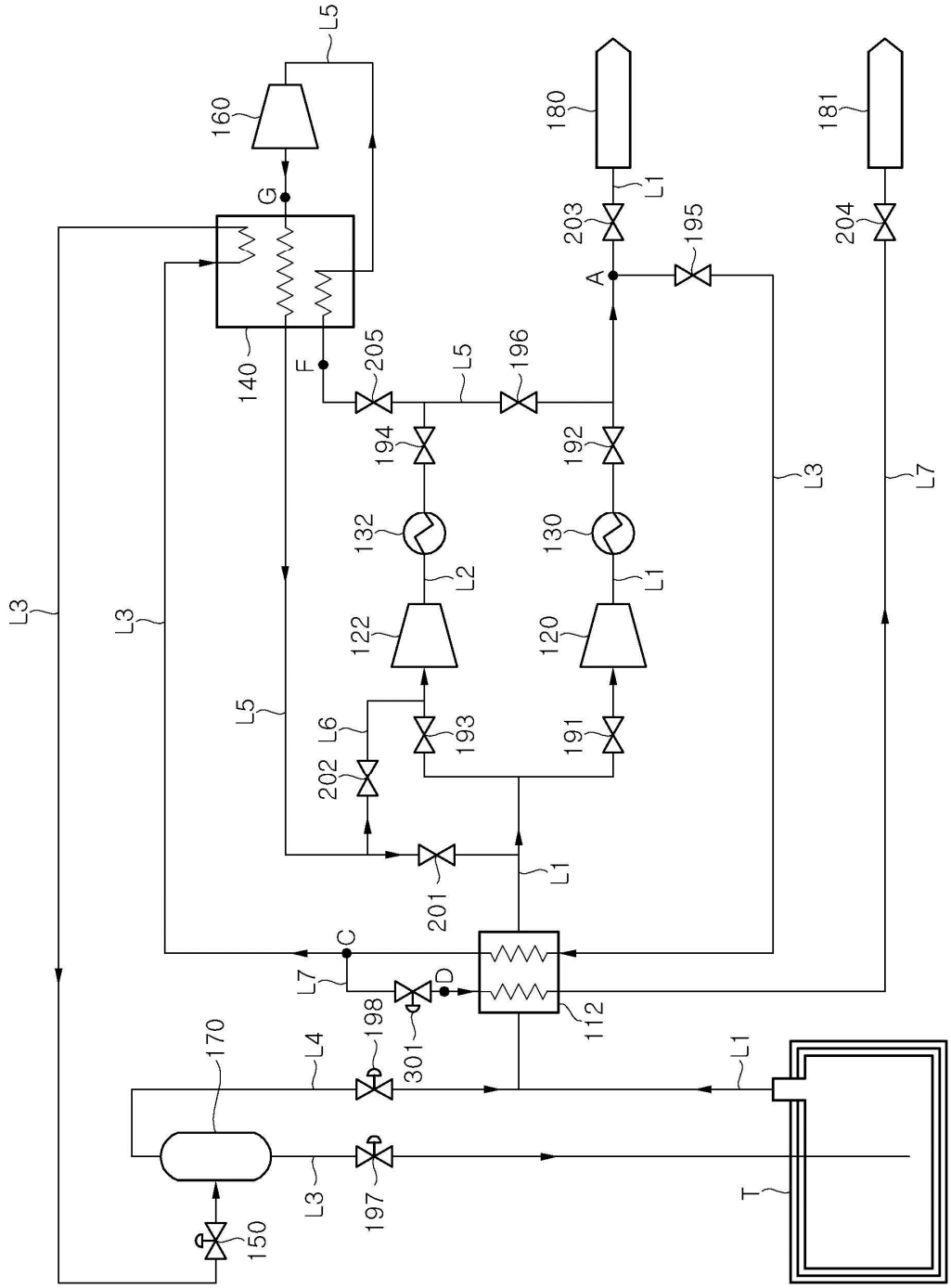
[FIG 3]


100b
RLb
200b
500b
800b
700b
BLb
CCLb
A
600b
310b
320b
330b
CSLb
400b
300b
T
T

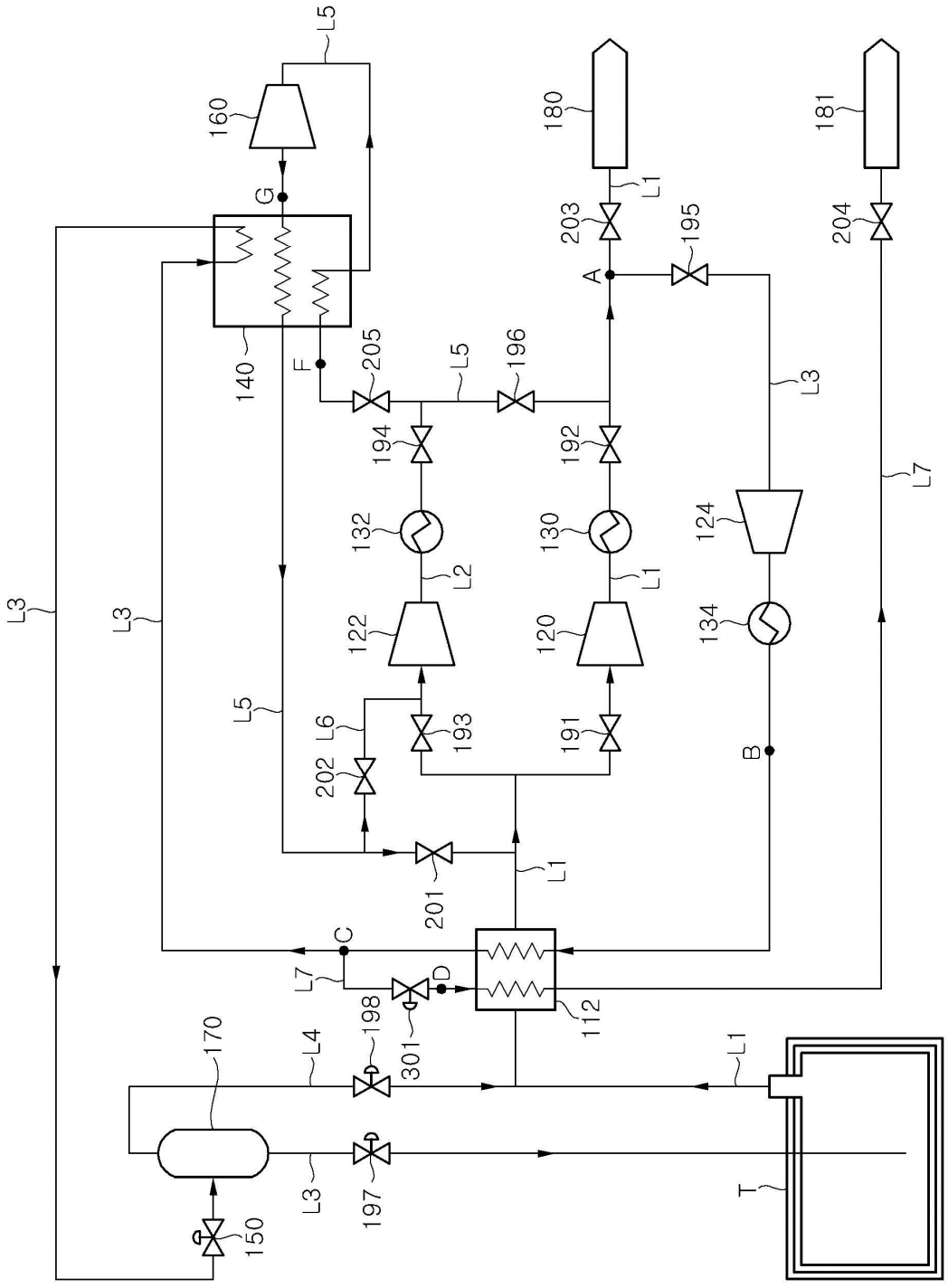
[FIG 4]


L5
160
180
L1
203
195
102
104
196
140
L5
194
192
102
102
L1
L3
102
132
130
L2
L3
L3
122
120
106
L5
193
191
102
L1
108
110
150
L4
198
100
L1
T
L3
197
170

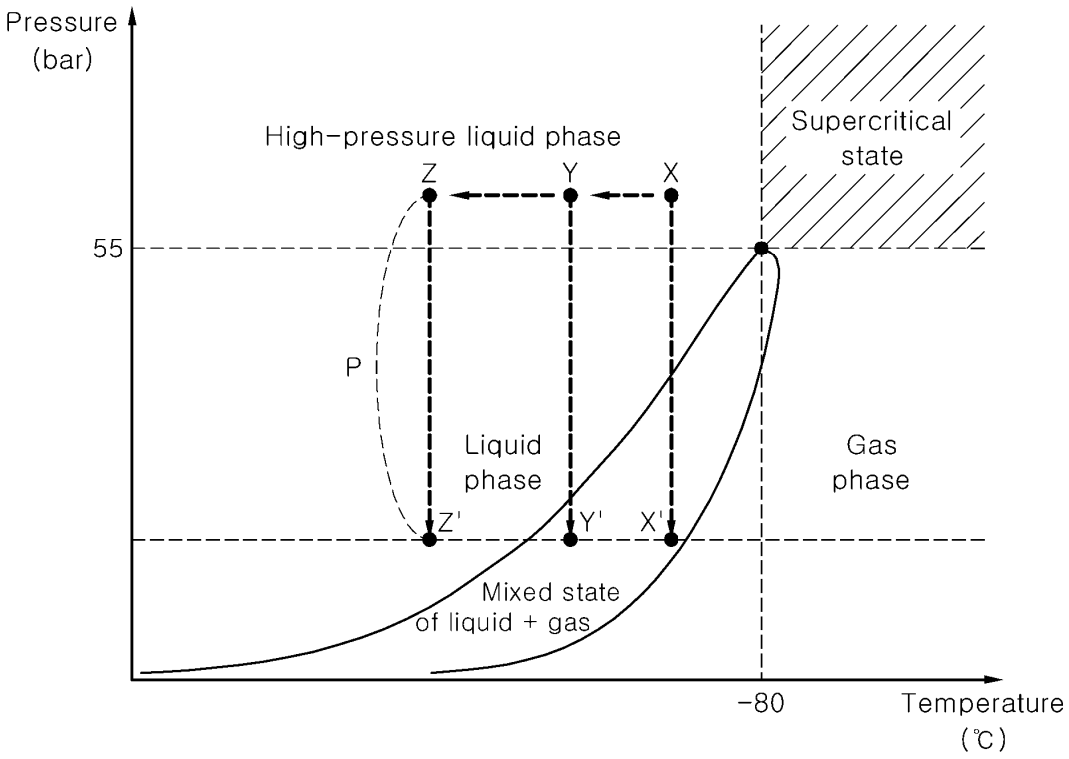
[FIG 5]


L5
160
G
180
181
L1
203
204
195
A
140
F
205
L5
196
194
192
L3
L7
132
130
L2
L1
122
120
L3
L3
L5
L6
193
191
202
201
L1
C
D
L7
198
301
112
170
L4
L1
L3
197
150
T

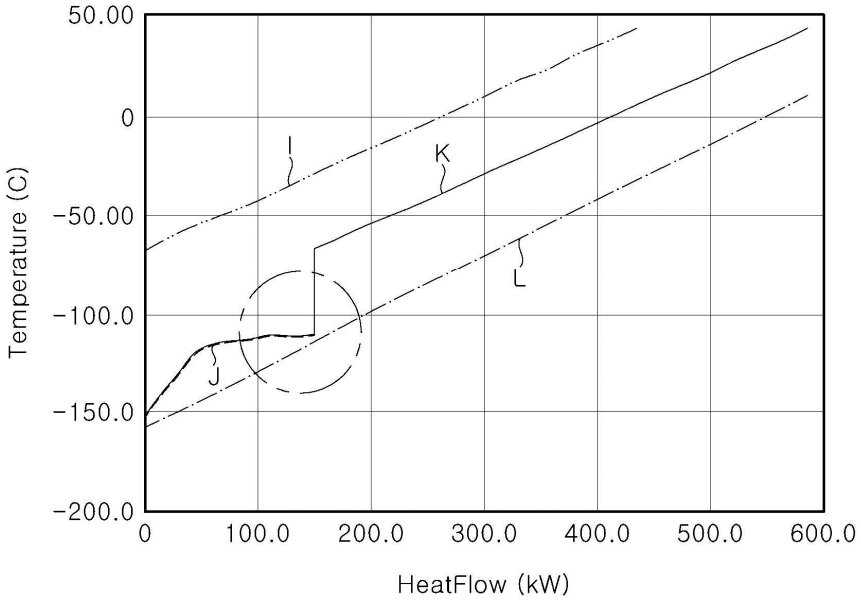
[FIG 6]


L5
160
G
140
F
205
L5
196
180
181
L1
203
195
204
A
L3
L7
194
192
132
130
124
L2
L1
122
120
134
L3
L3
L5
L6
193
191
B
202
201
L1
C
L7
D
198
301
112
170
L4
L1
L3
197
T
150

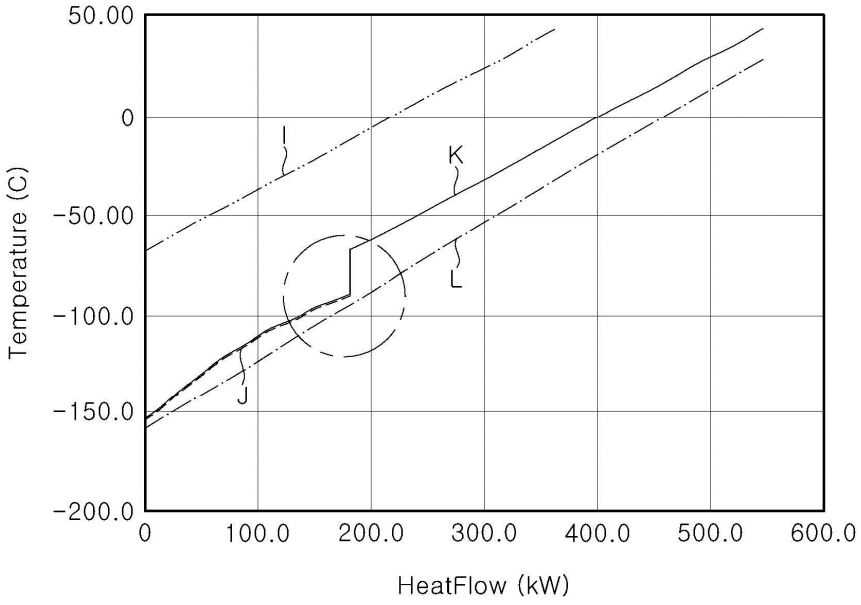
[FIG 7]


Pressure
(bar)
High-pressure liquid phase
Supercritical
state
Z
Y
X
55
P
Liquid
phase
Gas
phase
Z'
Y'
X'
Mixed state
of liquid + gas
-80
Temperature
(℃)

[FIG 8]


50.00
0
-50.00
-100.0
-150.0
-200.0
Temperature (C)
0
100.0
200.0
300.0
400.0
500.0
600.0
HeatFlow (kW)
I
K
L
J

(a)


50.00
0
-50.00
-100.0
-150.0
-200.0
Temperature (C)
0
100.0
200.0
300.0
400.0
500.0
600.0
HeatFlow (kW)
I
K
L
J

(b)