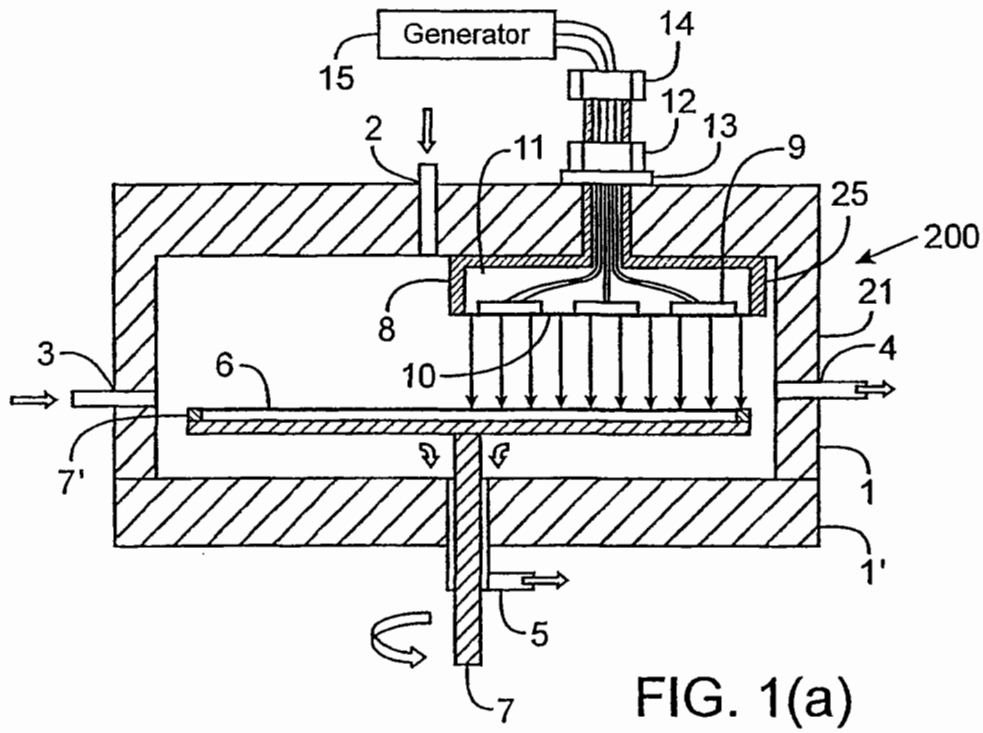


FIG. 1(a)

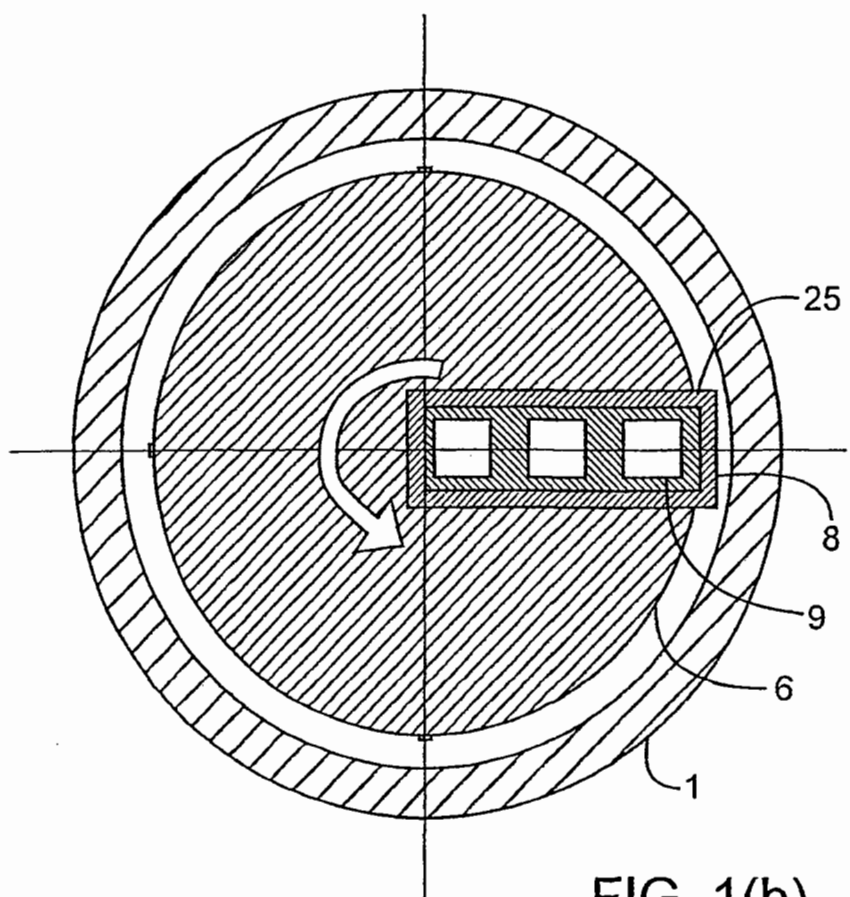


FIG. 1(b)

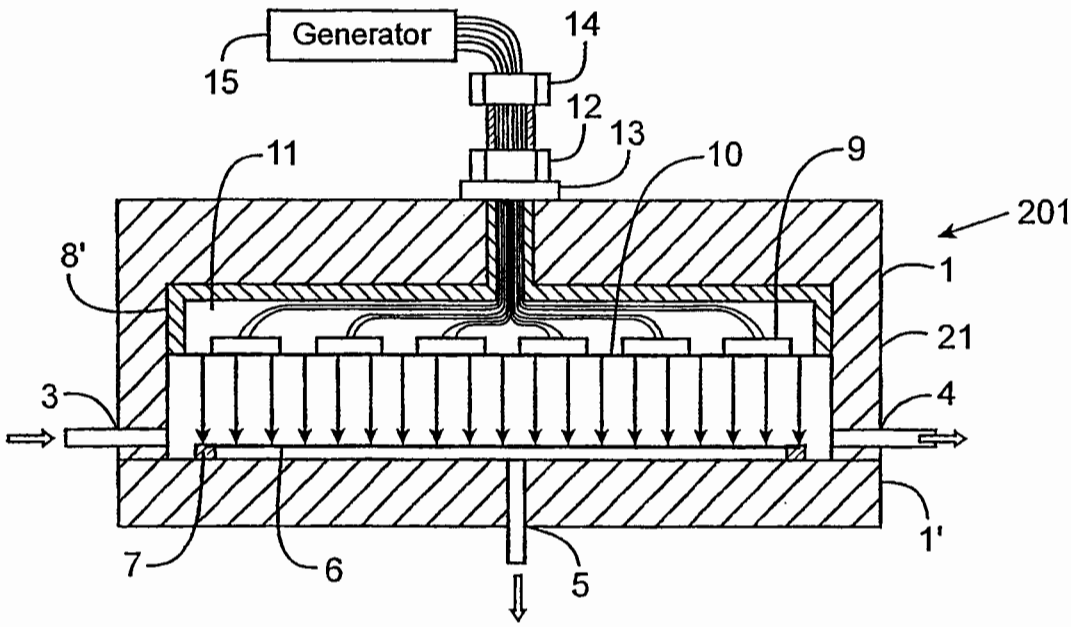


FIG. 2(a)

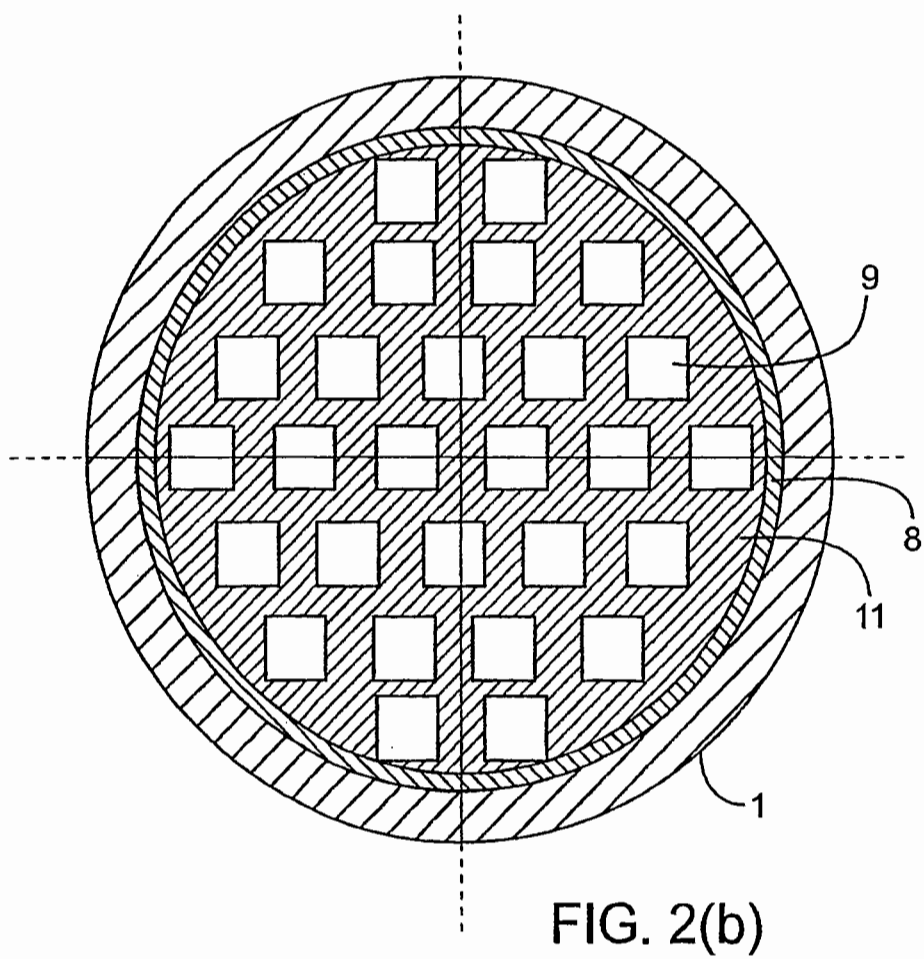


FIG. 2(b)

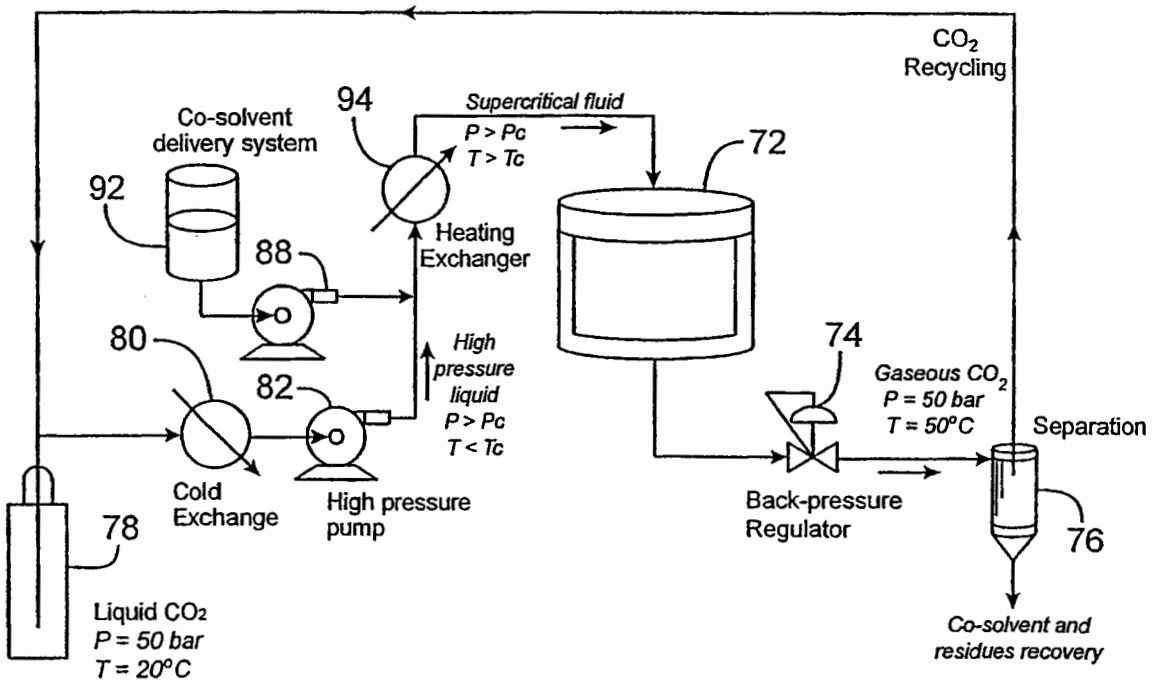

CO_2 Recycling
94
Supercritical fluid
P > Pc
T > Tc
72
Co-solvent delivery system
92
88
Heating Exchanger
80
82
High pressure liquid
P > Pc
T < Tc
74
Gaseous CO_2
P = 50 bar
T = 50°C
Separation
Cold Exchange
High pressure pump
Back-pressure Regulator
78
76
Liquid CO_2
P = 50 bar
T = 20°C
Co-solvent and residues recovery

FIG. 3

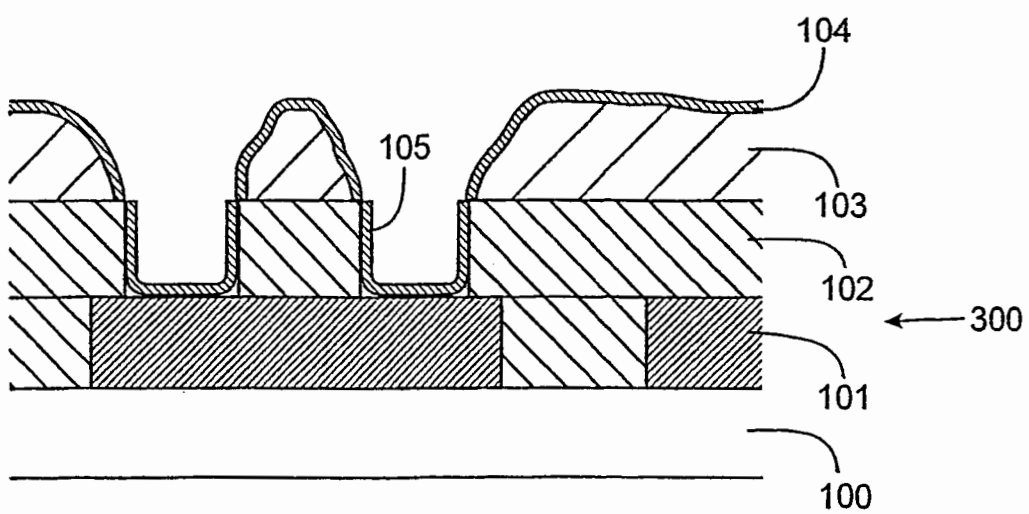

104
105
103
102
300
101
100

FIG. 4