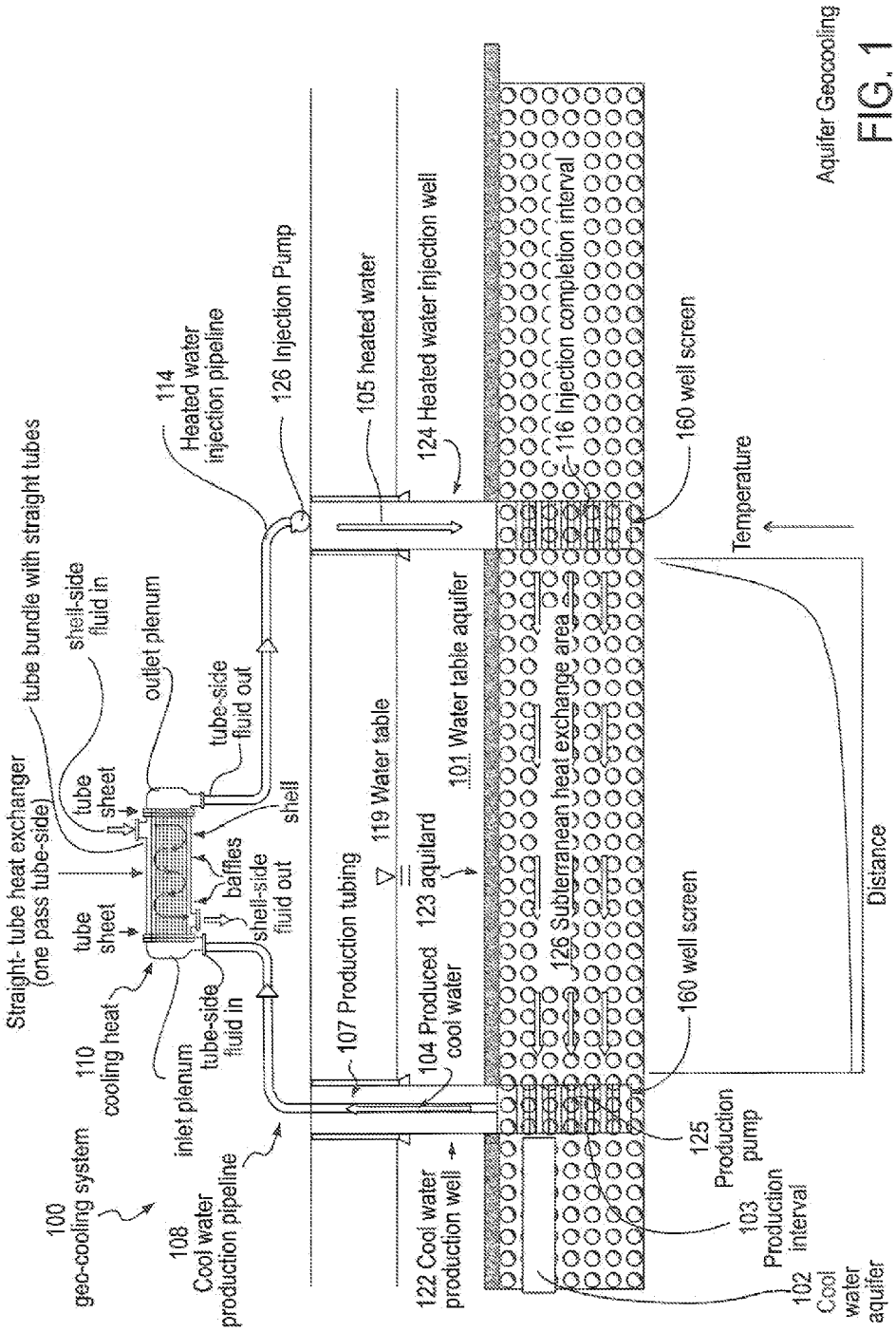
Straight- tube heat exchanger (one pass tube-side)
tube bundle with straight tubes
shell-side fluid in
tube sheet
tube sheet
outlet plenum
tube-side fluid out
shell
baffles
shell-side fluid out
tube-side fluid in
inlet plenum
110 cooling heat
100 geo-cooling system
108 Cool water production pipeline
114 Heated water injection pipeline
126 Injection Pump
105 heated water
124 Heated water injection well
116 Injection completion interval
160 well screen
Temperature
Distance
119 Water table
101 Water table aquifer
123 aquitard
126 Subterranean heat exchange area
107 Production tubing
104 Produced cool water
160 well screen
125 Production pump
122 Cool water production well
103 Production interval
102 Cool water aquifer
Aquifer Geocooling

FIG. 1