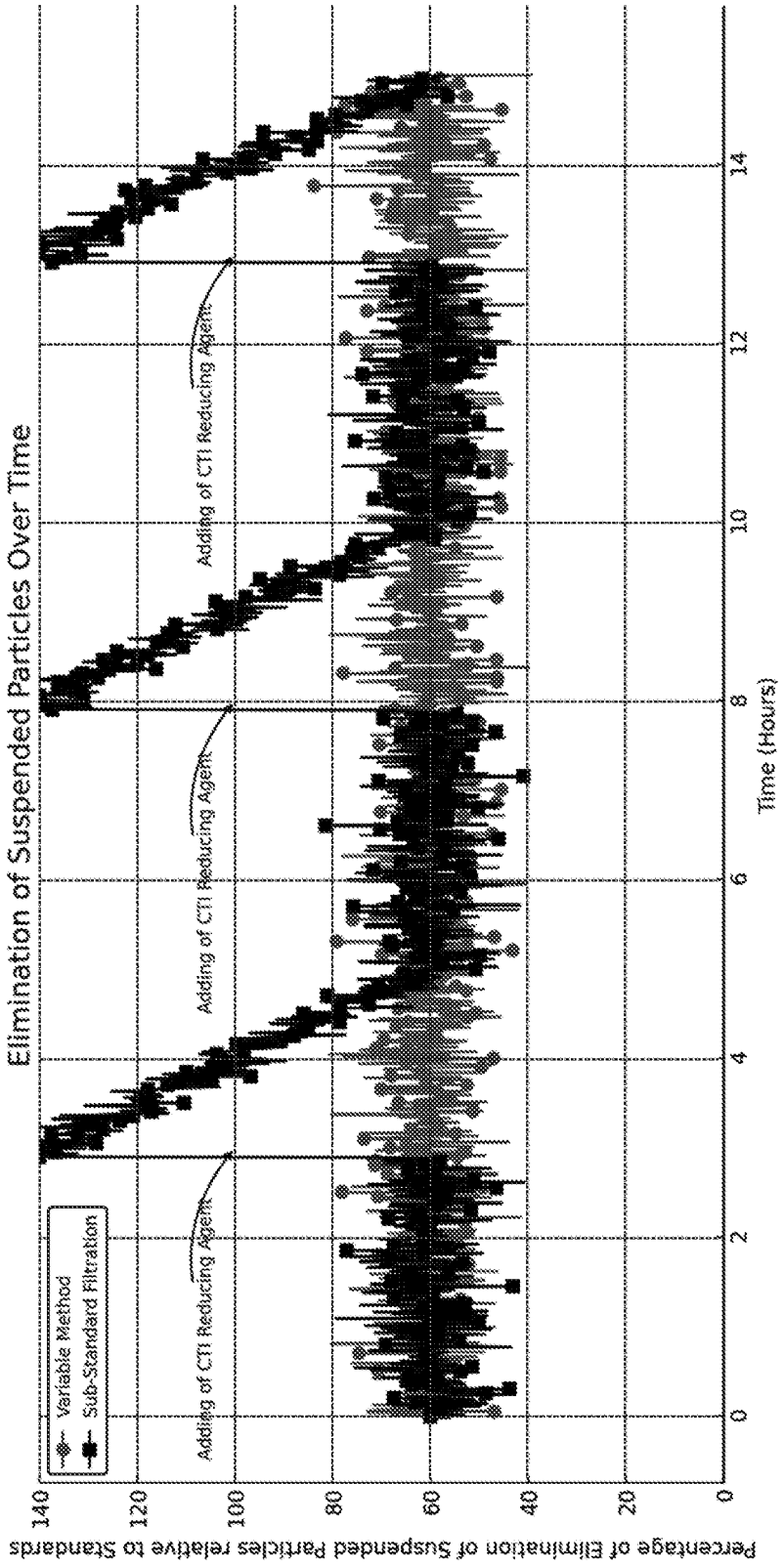

Elimination of Suspended Particles Over Time
Variable Method
Sub-Standard Filtration
Adding of CTI Reducing Agent
Adding of CTI Reducing Agent
Adding of CTI Reducing Agent
Percentage of Elimination of Suspended Particles relative to Standards
Time (Hours)
0
20
40
60
80
100
120
140
0
2
4
6
8
10
12
14

FIG. 1

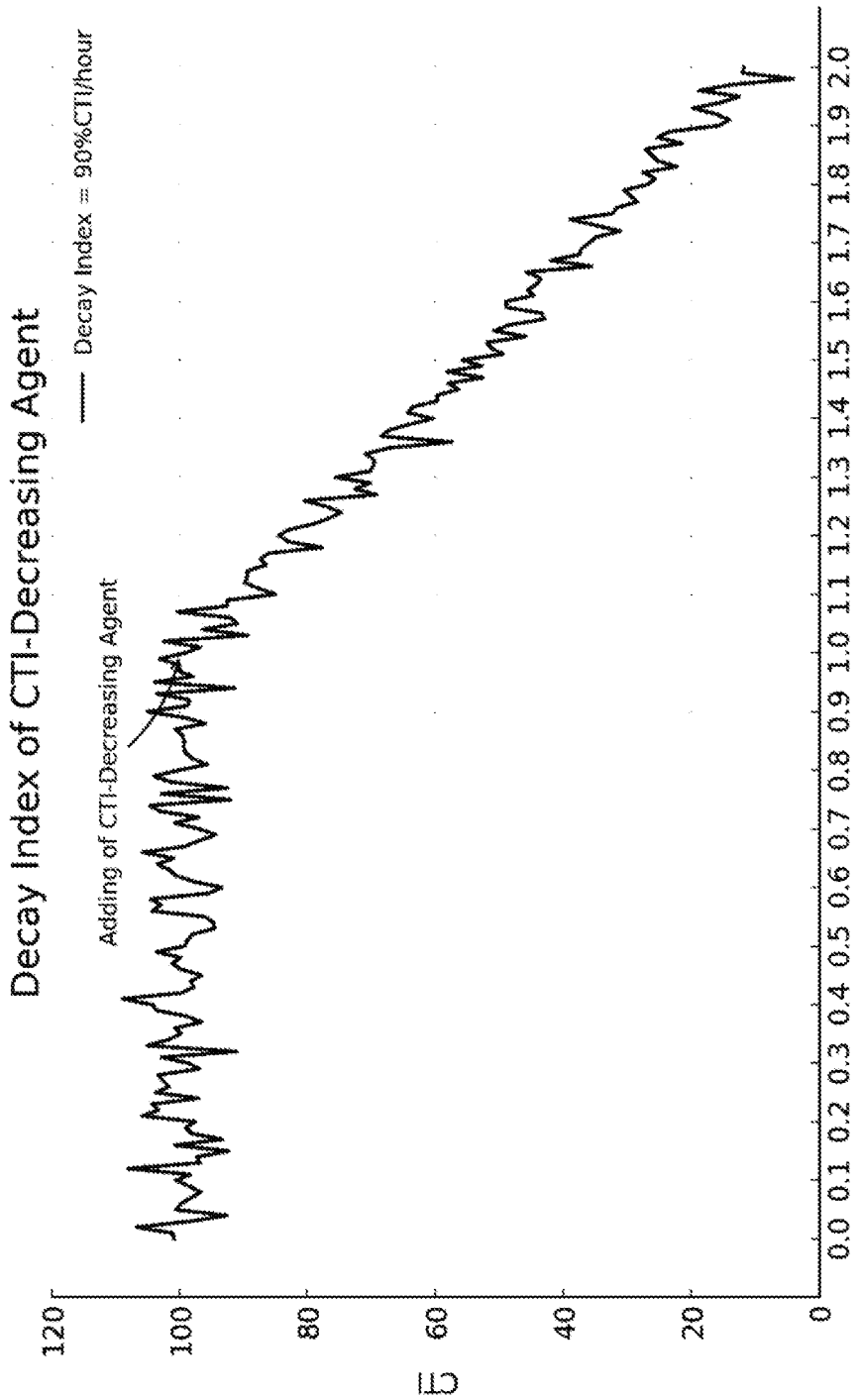

Decay Index of CTI-Decreasing Agent
Decay Index = 90%CTI/hour
Adding of CTI-Decreasing Agent
CTI
120
100
80
60
40
20
0
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0
Time (hours)

FIG. 2

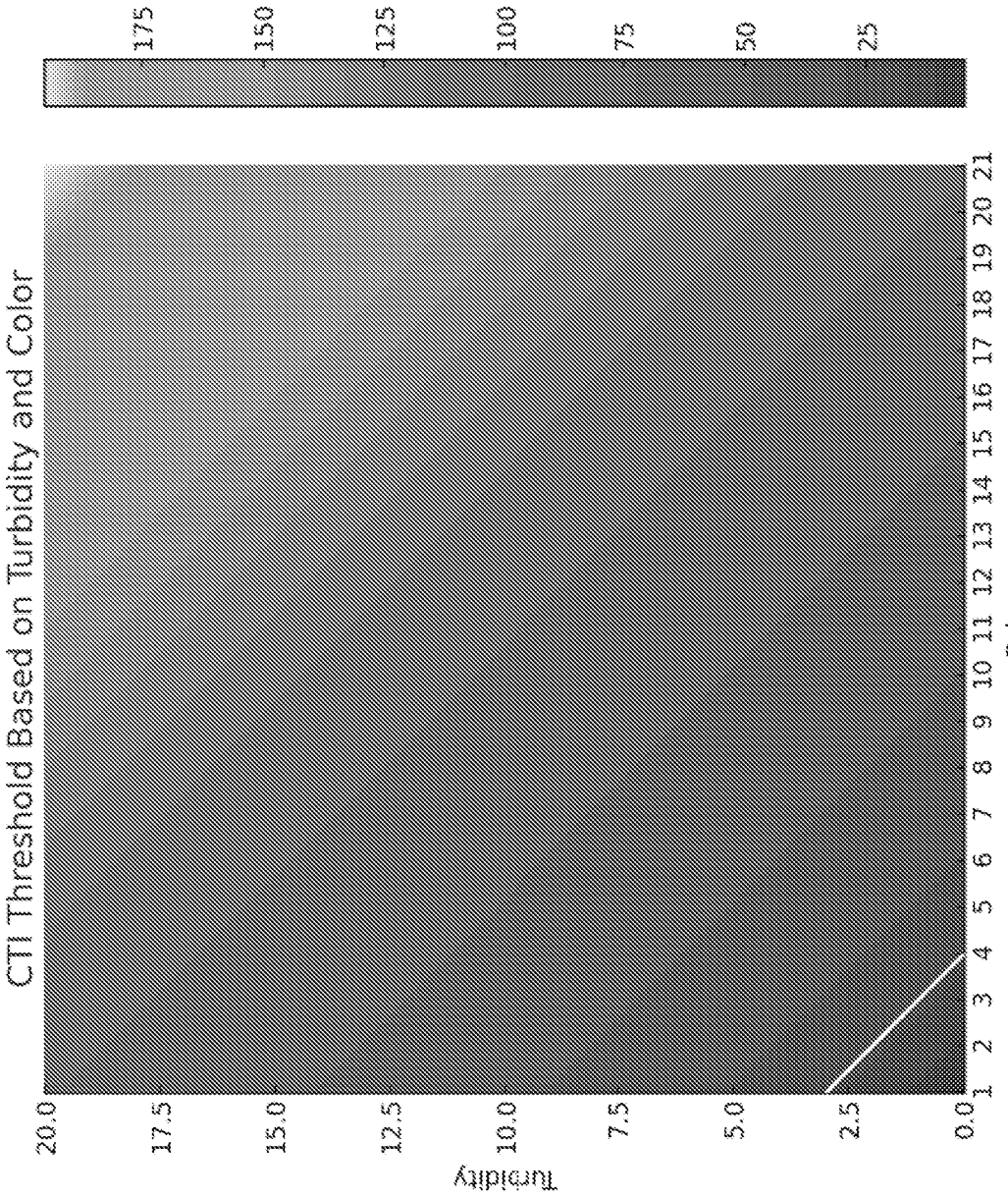

CTI Threshold Based on Turbidity and Color
Turbidity
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
Color
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
175
150
125
100
75
50
25

FIG. 3

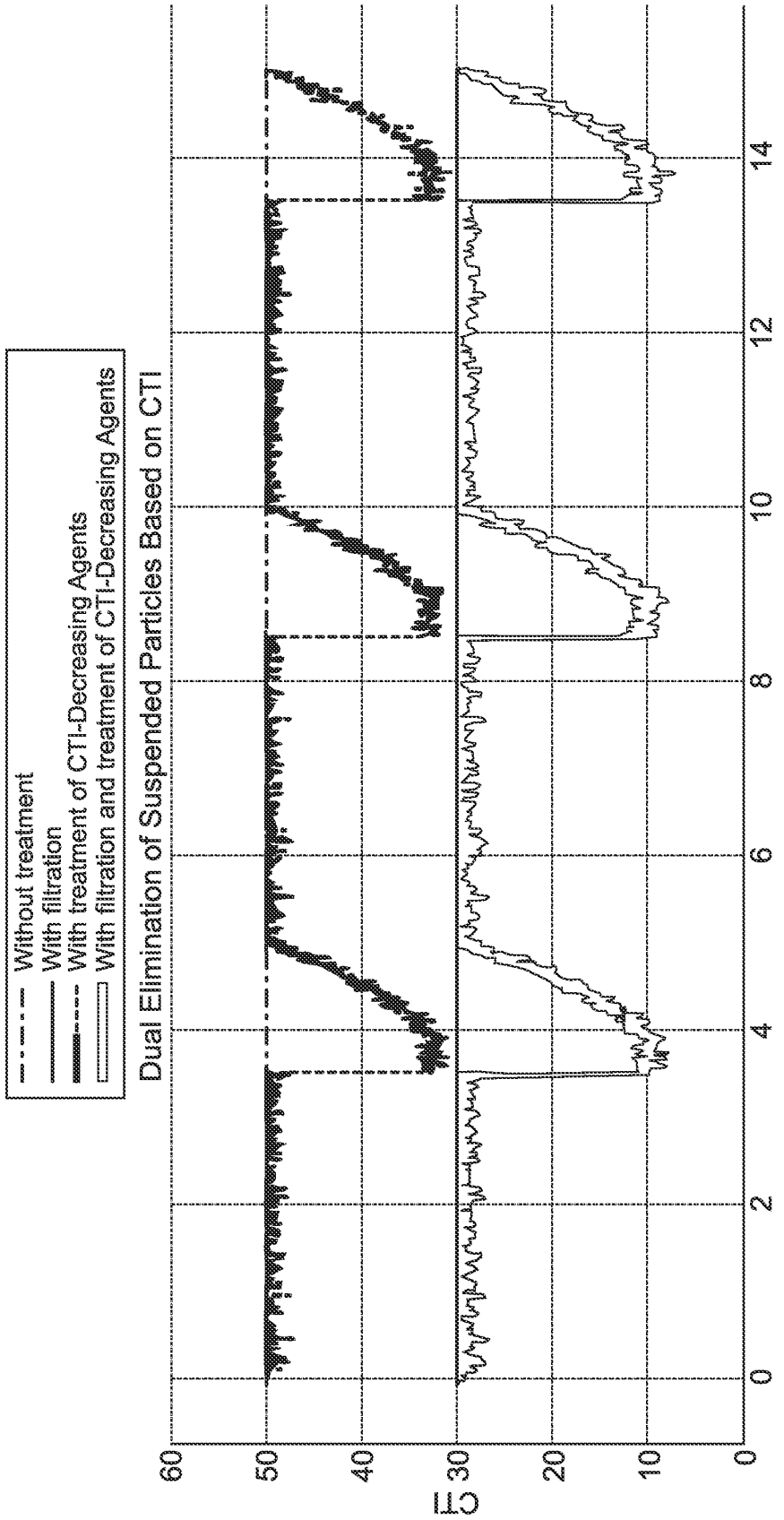

Without treatment
With filtration
With treatment of CTI-Decreasing Agents
With filtration and treatment of CTI-Decreasing Agents
Dual Elimination of Suspended Particles Based on CTI
CTI
Time
60
50
40
30
20
10
0
0
2
4
6
8
10
12
14

FIG. 4

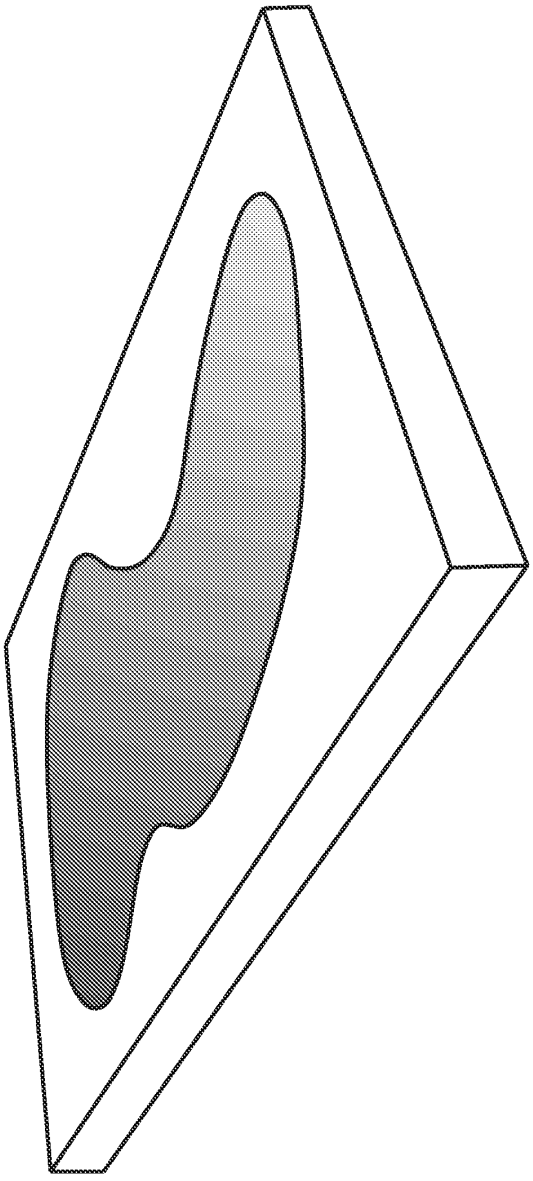


FIG. 5

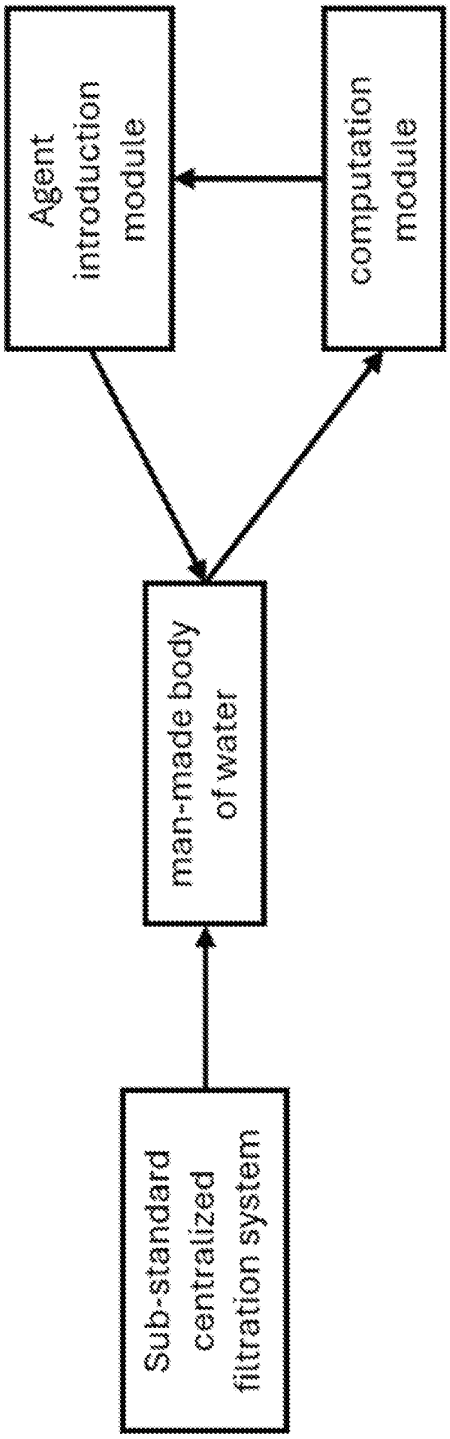

Agent introduction module
computation module
man-made body of water
Sub-standard centralized filtration system

FIG. 6

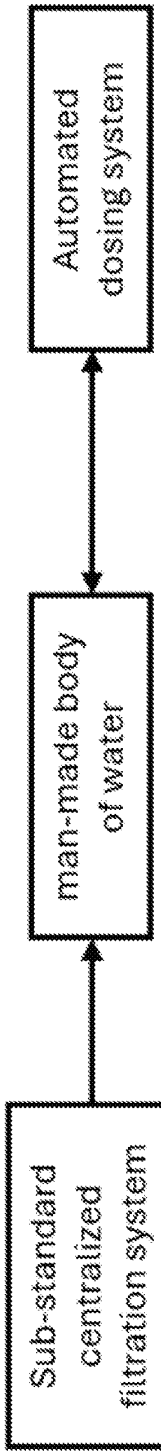

Automated dosing system
man-made body of water
Sub-standard centralized filtration system

FIG. 7