

ABSTRACT - METHOD, APPARATUS AND SYSTEM FOR CONTINUOUSLY
TREATING WATER BODY

A method for continuously treating a water body, comprising a step of using a substantially sealed processing tank, at a top and a bottom portions of which a water outlet and a water inlet are arranged respectively, and in an interior space of which three or more conductive plates substantially in parallel relation with the tank bottom and substantially in parallel relation with one another for upwardly forming a substantially closed S-shaped one-way flow path in said processing tank, wherein said conductive plates are made of a conductive material having a resistivity ranged from $1.59 \mu\Omega\text{cm}$ to $1300 \mu\Omega\text{cm}$ and at least two of said conductive plates are respectively electrically connected to a positive and a negative power source to serve as an anode and a cathode, wherein said water to be treated is introduced into said processing tank from said water inlet, flows upwardly through said S-shaped one-way flow path, and then is discharged out of said processing tank from said water outlet, and wherein a voltage is applied to said cathode and said anode to generate an electric field having an intensity ranged from 0.5 mV/cm to 1000 V/cm during the flow of said water body in said flow path, thereby polarizing and coagulating impurities in said water body to removing said coagulating impurities.

(FIG, 6)