

CYCLONE SETTLING APPARATUS

Abstract of the Disclosure

A cyclone settling apparatus includes: a body which is
5 shaped like a cylindrical tank and comprises a high speed
nozzle extending in a tangential direction thereof on an
upper outer peripheral surface thereof to communicated
therewith and a funnel-shaped floc eliminating cone formed
at a lower portion thereof; a water supply unit which is
10 connected to the high speed nozzle and comprises a mixer
for mixing chemicals and polluted water to supply the
chemicals-mixed polluted water into the body; and a
draining unit comprising a porous pipe vertically installed
at a central portion of the body, funnel-shaped multistage
15 inclined cones fixed to an outer peripheral surface of the
porous pipe and gradually expanding downward, and an
uppermost inclined cone for discharging fresh water to the
outside of the body unit, which is additionally provided
above the multistage inclined cones and has a wall
20 integrally extending downward from a lower outer periphery
thereof so that the uppermost inclined cone surrounds upper
and lateral sides of the multistage inclined cones.

Fig. 4