

97-0182

The invention relates to the processes and installations for removing the hydrogen sulphide from the water and may be used for natural waters purification and conditioning for potable and process water supply.

The summary of the process consists in the fact that in the purifying water is introduced the sodium chloride and the process is carried out by the electrochemical oxidation in flow of the sulfide ions in the diaphragm cell anode chamber with the simultaneous desorption water treatment by magnetic fluidization and air stripping. Then the water is filtrated through the porous cathode into the cathode chamber for neutralization thereof. By that, the magnetic fluidization is realised with the ferromagnetic particles of the hard-magnetic material, placed in the alternative electromagnetic field at 45...50 Hz.

The installation comprise the cell with the diaphragm and branch pipes for water inlet and outlet, for air inlet, which complementary contains the unit for preparation and dosage of the sodium chloride solution, unit for the magnetic fluidization, on the external surface of which is placed the solenoid and the current variator, and in the inside are placed the gummed spherical beads of the barium hexaferrite with possibility of magnetic fluidization. The cathode of the carbon graphite fibred material is carried out porous for the further water filtration and neutralization therethrough.

The technical result consists in the sulphide-iones oxidation with the electrochemically generated hypochlorite-iones and intensification of the mass transfer.

Claims: 3

Fig.: 1