

The invention relates to the wine and alcohol-distillation industry, namely to a process for treating alcoholic distillate containing aldehyde compounds and to a device for its realization.

The process, according to the invention, comprises reduction of aldehyde compounds with electrochemically generated hydrogen, upon its release on a porous electrode in the cathode space of a diaphragm electrolyzer at the current density of  $0.1 \dots 0.5 \text{ A/dm}^3$  and the linear flow rate of  $0.01 \dots 0.05 \text{ m/s}$ , and subsequent treatment of alcoholic distillate in an electrohydrodynamic cavitator with spherical magnetized ferromagnetic particles upon their magnetic liquefaction in an electromagnetic field with the magnetic induction of  $0.03 \dots 0.05 \text{ T}$ .

The device, according to the invention, includes a detachable electrode unit (1), in the upper part of which is fixed an electrohydrodynamic cavitator (15). The electrode unit (1) comprises a flow-type cathode (3) and a perforated anode (9), adjacent to a membrane (4) delimiting the cathode compartment (5) from the anode compartment (8). At the same time, the electrohydrodynamic cavitator (15) comprises a housing (14) provided with a treated distillate outlet branch pipe (16) and a cover (21) with hydraulic lock (22), a mesh shelf (19), on which are placed spherical magnetized ferromagnetic particles (20) and an electromagnetic field generator (17) in the form of a solenoid with control unit (18).

Claims: 4

Fig.: 1

