

98-0085

The invention relates to the thermal and electrical engineering, namely, to the cooling system of electrical and other apparatuses, especially of the high-voltage ones, filled with dielectric liquid, for example, of power transformers, X-ray units etc.

The electrohydrodynamic radiator comprises inlet 1 and outlet 2 collectors, connected between them by pipes 3, high-voltage electrodes 5, connected to the high-voltage source.

Each high-voltage electrode 5, made in the form of a wire with perforated dielectric coating is installed into the pipe 3 along its full length, centered and isolated from the pipe 3 by means of dielectric bushes 11 and 12. Each of dielectric bushes is made in the form of two coaxial tubes, connected between them by straps, joined respectively to the pipe and wire diameter, each having a length equal to one diameter and a half of the pipe 3 and being misaligned relative to each other along the pipe 3 axis at a distance, equal to the pipe 3 diameter so. That misalignment of the bush 11 external tube relative to the internal one 12 is oriented to the outlet collector 2, besides, the free end of the wire into the pipe is forming a cantilever in the sector oriented to the outlet collector 2 and is isolated by a bush in the sector oriented to the inlet collector 1.

The technical result of the invention consists in turbulization of the heat-transfer agent along the full length of the pipe.