

The invention relates to the field of electrohydrodynamics and can be used for the creation of high-voltage energy equipment cooling systems such as high-voltage transformers, X-ray emitters, etc.

The multistage electrohydrodynamic pump comprises a rectangular housing (1), in which are placed the pump stages, wherein each stage comprises two grounded electrodes – emitter (2), connected to a high-voltage source (6), and collector (3), made in form of grating of parallelly stretched wires, on the wires of the emitter (2) are deposited insulating coatings with perforations (4) from the end of collector (3), at the same time between the emitter (2) and collector (3) electrodes of the pump stages are installed porous partitions (5), made of dielectric material, the thickness of which is 1.5...2.0 times greater from stage to stage, in the direction of the pumped agent, and the pore sizes of partitions, from stage to stage, in the direction of the pumped agent, are smaller.

Claims: 2

Fig.: 1

