

The invention relates to electrostatic pumps for pumping gases, dielectric and conductive fluids and may be used in the chemical and electronic industries for creating a pressure in electroconvective heat exchangers and electrohydrodynamic heat pipes.

The electrostatic pump comprises a dielectric cylindrical channel (1), on the inner perimeter of which are installed fixed electrodes (2), longitudinally to the channel (1), with identical pitch, which are connected over one to the analogous poles of a high-voltage source (3) and are provided with pointed projections (7). Inside the channel (1) is coaxially installed with gap (6) with the possibility of rotation a dielectric cylinder (5), on which are installed movable electrodes (4), longitudinally to it. At the end of the cylinder (5) is installed a discharge nozzle (8), and on the inner perimeter of the cylinder (5) is installed a spiral (9) with the pitch between the coils decreasing towards the nozzle (8).

Claims: 1

Fig.: 2

