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LOW-ENERGY ELECTRON ACCELERATORS AND SOURCES WITH PLASMA EMITTERS FOR SCIENTIFIC AND TECHNOLOGICAL PURPOSES

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At present, low-energy sources (up to 30 keV) and accelerators (up to 200 keV) of electrons find wide practical and scientific use and have a wide range of parameters of the generated electron beam, which is determined by the problem being solved. Thus, electron sources can also be used for processing various organic materials (polymers, gases, food or medical products, etc.), generating beams with a relatively low energy density, most often outputted into the atmosphere through an output foil window, or for processing various inorganic (metallic and cermet) materials in vacuum in order to change the functional and operational properties of their surface. Such problems can be rationally solved using sources of electrons with plasma emitters based on arc or glow discharges.

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