

Abstract

The invention relates to devices for disposal of waste in solid, liquid and gaseous state thereof, in particular, it relates to devices for providing waste disposal by plasma-chemical destruction. A technical effect obtained by this invention is implementation of a reactor providing destruction of both organic and inorganic substances of residential solid and/or liquid waste. The technical effect is obtained by a reactor provided in form of a closed cavity having an input orifice connected to a waste feed apparatus and an output orifice for outputting gaseous products of destruction. Inner surfaces of the cavity are made electrically conductive entirely or partially and an electrode is inserted into the reactor. The electrode is isolated from the conductive surfaces and connected to a source of high-voltage pulses, and size of a gap between the electrode and the conductive surfaces of the cavity provides formation of streamers of plasma by corona discharge.

Fig. 1