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New technology of splitting CO₂ into C and O₂

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In this technology, a method of bombarding gas with electric discharges was used. In the process, exhaust gas containing carbon dioxide works as a dielectric. Energy released during controlled discharges causes the disruption of interatomic bonds between oxygen and carbon. Dissociation of exhaust gases, especially CO₂, is caused by bombarding them with electric discharges of high energy and as high frequency as possible. It causes disruption of interatomic bonds in CO₂. In conducted stationary experiments up to 17% of CO₂ was transformed into C & O₂. To lower energy

states, ionization and consequent recombination of ions and electrons. During the movement of the dielectric in the medium, the electron collides with many atoms with gas, which is accompanied by the transmission of electron energy to the atoms of gas. The result of these collisions is the ionization of gas particles, as well as the excitation and change of kinetic energy. In stationary experiments, up to 17% CO₂ in C and O₂ was transformed.

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