

FURNACE ATMOSPHERE ACTIVATION METHOD AND APPARATUS

5,000,000 10,000,000 15,000,000 20,000,000 25,000,000 30,000,000 35,000,000 40,000,000 45,000,000 50,000,000 55,000,000 60,000,000 65,000,000 70,000,000 75,000,000 80,000,000 85,000,000 90,000,000 95,000,000 100,000,000

ABSTRACT

5 A gas injector including in which a gas is passed through high-voltage/low-current electrical discharges before being discharged into the chamber of a thermal treatment furnace. The electrical activation of the gas accelerates desirable reactions between the gas, gases in the furnace chamber, and the chamber workload. Preferably, a hot electrode is electrically charged and the other parts of the gas injector and the furnace are grounded.