

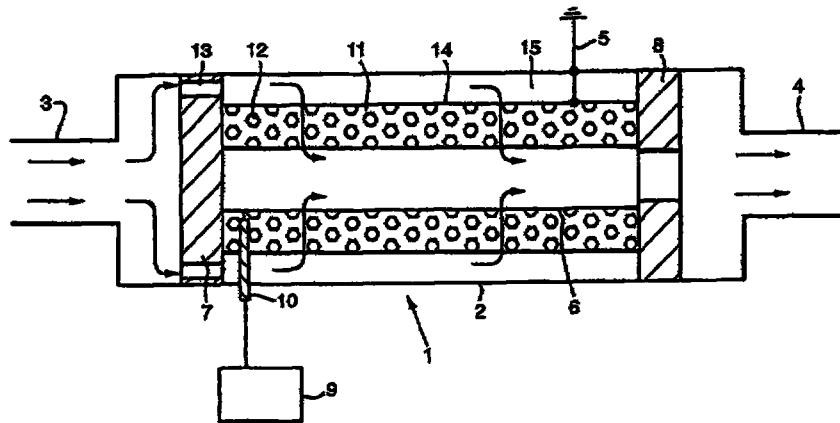


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(54) Title: PLASMA ASSISTED PROCESSING OF GAS**(57) Abstract**

A plasma assisted reactor for the simultaneous removal of nitrogen oxides and carbonaceous combustion products from the exhaust emissions, in particular, from an internal combustion engine, wherein the reactor includes a gas permeable bed made of a mixed metal oxide having the general formula $A_{2-x}A^1_xB_{1-y}B^1_yO_4$.