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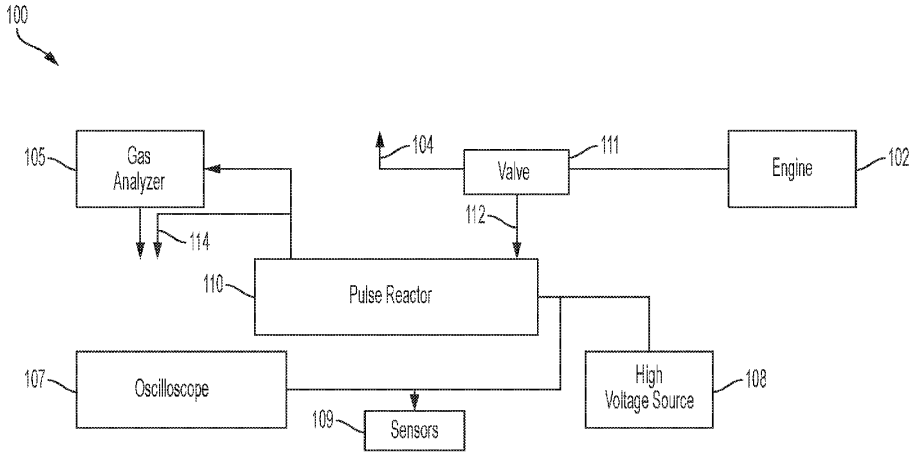


FIG. 1

(57) Abstract: A system for exhaust gas remediation includes an engine, a plasma reactor, and a pulse source. The engine emits exhaust gas that includes NO molecules and NOx molecules. The plasma reactor includes an internal chamber that is fluidly connected to the engine such that the exhaust gas flows into the internal chamber. An electrode is disposed within the internal chamber of the plasma reactor. The electrode is electrically coupled to an electrical pulse source. The electrical pulse source delivers electrical pulse to the electrode to form a plasma from the exhaust gas, which removes at least a portion of the NO molecules and at least a portion of the NOx molecules.

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