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(54) Title: SYSTEM FOR CONTROLLING GAS FLOW INTO AN ABATEMENT APPARATUS

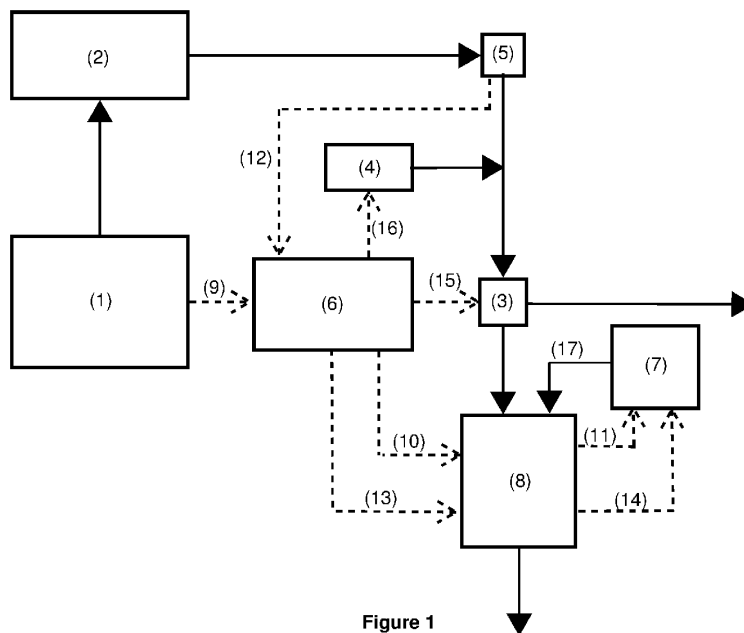


Figure 1

(57) Abstract: The present invention provides a system for controlling gas flow into an abatement apparatus. The system comprises at least one vacuum pump configured to evacuate process gases from a process tool, an interface controller, a flow measurement device arranged downstream of the at least one vacuum pump and configured to measure the flow rate of the process gas flow and send a flow rate signal to the interface controller, an abatement apparatus arranged downstream of the flow measurement device, and an auto-tuning gas injection block arranged upstream of the abatement apparatus and configured to inject one or more gases into the process gas flow. During use, the process tool is configured to send a signal to the interface controller indicating the process step that is occurring in the tool, and the interface controller is configured to send a process step signal to the auto-tuning gas injection block to control the injection of the one or more gases according to the process step occurring in the tool. The interface controller is configured to send a flow rate

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signal to the auto-tuning gas injection block to control the injection of the one or more gases according to the gas flow rate measured by the flow measurement device. The present invention also provides a method for controlling gas flow into an abatement apparatus.