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(71) Applicant: **EDWARDS LIMITED** [GB/GB]; Edwards Limited, Innovation Drive, Burgess Hill Sussex RH15 9TW (GB).

(72) Inventors: **DAVIDSON, Matthew Fraser**; Edwards Limited, Kenn Business Park, Kenn Road, Clevedon Somerset BS21 6TH (GB). **MUTORE, Tinashe Comfort**; Edwards Limited, Kenn Business Park, Kenn Moor Drive, Clevedon Somerset BS21 6TH (GB). **RADIAR, Alageswaren Reddi Balsamy**; Edwards Limited, Kenn Business Park, Kenn Road, Clevedon Somerset BS21 6TH (GB).

(74) Agent: **NORTON, Ian**; Edwards Limited, Innovation Drive, Burgess Hill Sussex RH15 9TW (GB).

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(54) Title: GAS INJECTION SYSTEM

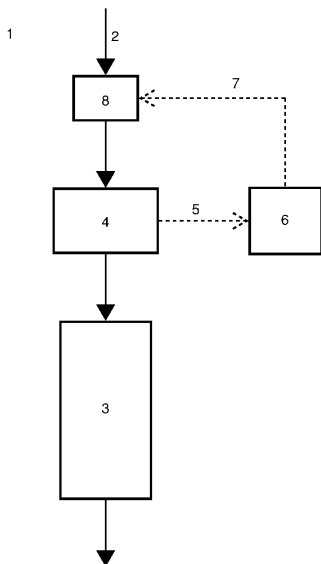


Figure 1

(57) Abstract: The present invention provides an abatement inlet gas injection system for automatically controlling injection of a gas flow into a process gas stream. The system comprises a gas supply configured to provide a gas flow; an injection block connected to the gas supply, the injection block being configured to inject the gas flow into an inlet head of an abatement apparatus for mixture with a process gas stream; a flow measurement device configured to substantially continuously measure the gas flow rate upstream of the injection block and send a flow rate signal to a controller; wherein the controller is configured to receive the flow rate signal from the flow measurement device, and to provide a flow control signal to a flow control device in response to a change in the flow rate signal; wherein the flow control device is configured to change the gas flow rate entering the injection block in response to the flow control signal.

WO 2025/093858 A1

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