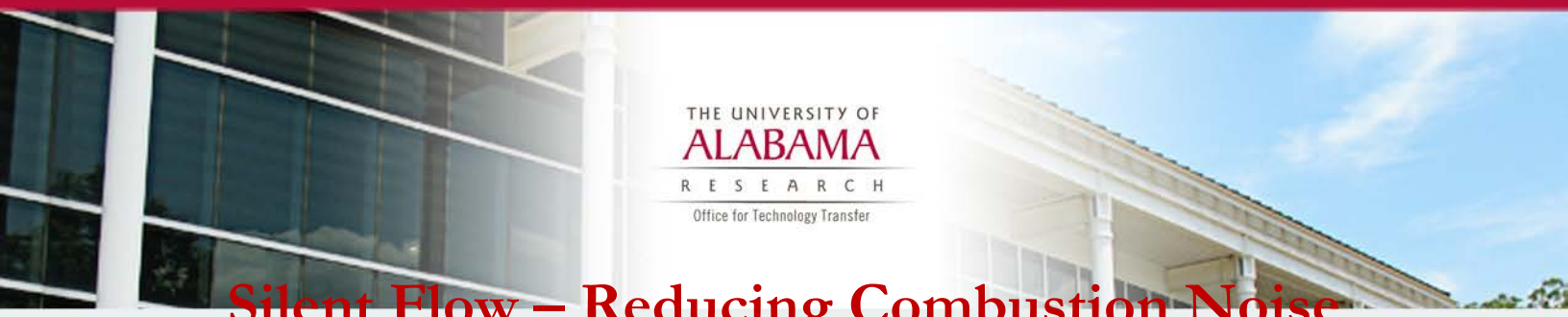

Silent Flow – Reducing Combustion Noise

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Status:

Seeking R&D and/or licensing partner

Patent No.: 8,109,362

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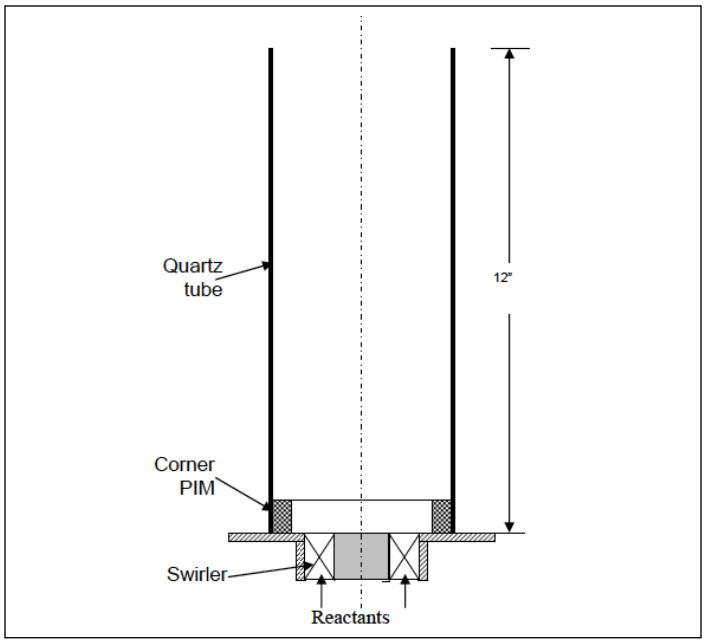
Passive Noise Attenuation during Combustion

- Intense heat release and associated flow modification in combustor result in noise emissions.
- Noise emissions can occur during combustion in systems such as gas turbines, furnaces, burners, etc.
- Technology is reticulated foam structures to fine-tune combustion and flow processes at source of combustion to mitigate noise.



Porous media is placed within reaction zone to mitigate noise

Advantages

- Existing technologies focus on mitigating sound downstream of combustor.
- Our technology prevent sound generation at source, which greatly reduces need for downstream control
- Allows for retrofitting of current systems
- Improves combustion and allows for reduction of pollutants such as NOx, CO, and soot

Sample of reticulated foam structure

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