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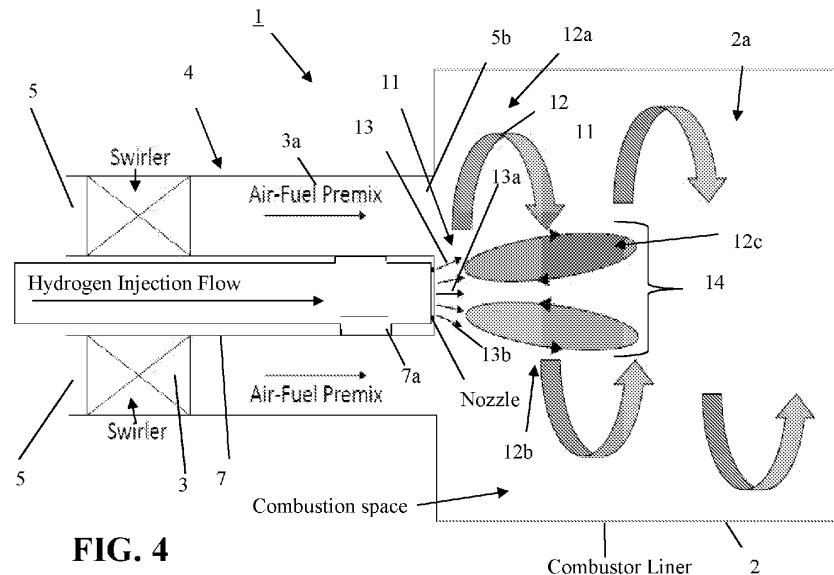


FIG. 4

(57) Abstract: A hydrogen injection arrangement (1) includes an injector assembly that includes an outer conduit (5) configured to feed a flow of a mixture of air and fuel(3a) to a combustion chamber (2a) of a combustor. At least a swirler (3) can be positioned in the outer conduit (5) to facilitate a swirling flow of the air-fuel mixture (3) a to be output into the combustion chamber (2a) so that the output mixture of fuel and air includes a swirling output flow (12). A flow of hydrogen can be passed through an inner hydrogen injection conduit (7) for output into the combustion chamber (2a) for injection therein as a hydrogen injection flow.

[Continued on next page]

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