

Title (en)

METHOD FOR CONTROLLING THE COMBUSTION OF LIQUID FUELS, AND BURNER ARRANGEMENT SUITABLE FOR CARRYING OUT THE METHOD

Publication

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Application

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Priority

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Abstract (en)

[origin: US4334854A] The present invention relates to a method of controlling a substantially stoichiometric combustion of liquid fuels in a burner assembly wherein a stream of compact or atomized fuel is produced by means of an orifice or nozzle (e.g. injection, pressure, rotary atomizing nozzle) and fed into a mixing and atomizing zone in accordance with the preferably adjustable, nozzle input pressure, wherein at least part of the combustion air as an atomizing medium is introduced from the side of the axis of the fuel stream, with the flow of such air being adapted to be controlled with respect to throughput (flow rate) and flow velocity, and including a subsequent combustion of the fuel/air mixture within a combustion zone downstream of said mixing zone.

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