

Title (en)
Method and device for fuel combustion

Title (de)
Verfahren und Vorrichtung zur Verbrennung von Brennstoffen

Title (fr)
Procédé et dispositif pour la combustion des combustibles

Publication
EP 0789187 A3 19981014 (DE)

Application
EP 96810567 A 19960828

Priority
DE 19536672 A 19950930

Abstract (en)
[origin: DE19536672A1] The combustion air is directed in a channel over a delta-shaped body consisting of at least one triangular vortex-generating area (1) and one downstream trapezoidal flame stabilising area (3). Fuel is introduced into the eddying combustion air in the vortex-producing area which is set at an angle to the main flow so that the twist of the longitudinal vortex induced in the main stream is smaller than the critical twist for producing a recirculation zone (5). The flame stabilising area (3) is set at an angle to the flow so that the twist of the vortex induced in the flow is greater than the critical twist for producing the recirculation zone. For each delta-shaped body, a pair of dome-shaped recirculating zones is produced which stabilises the ignited mixture of combustion air and fuel.

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IPC 8 full level
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• [A] EP 0620403 A1 19941019 - ABB MANAGEMENT AG [CH]
• [PA] GB 2288010 A 19951004 - ABB MANAGEMENT AG [CH]
• [A] EP 0619133 A1 19941012 - ABB MANAGEMENT AG [CH]

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