

Title (en)
Catalytic combustor and fuel cell system

Title (de)
Katalytischer Brenner und Brennstoffzellensystem

Title (fr)
Brûleur catalytique et système de pile à combustible

Publication
EP 1458045 A2 20040915 (EN)

Application
EP 03028645 A 20031215

Priority
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Abstract (en)
A catalytic combustor is provided with a housing supplied with mixed gas including exhaust fuel gas from a fuel electrode of a fuel cell and exhaust oxidizer gas from an oxidizer electrode of the fuel cell, and a catalyst combusting the mixed gas. At an area upstream of the catalyst, an inner periphery surface of the housing has a continuous shape, and at least one of the exhaust fuel gas and the exhaust oxidizer gas is supplied to the housing in a way to generate swirl flow in the mixed gas so as to swirl along the inner peripheral surface. Such a catalytic combustor is applied to a fuel cell system provided with a fuel cell having a fuel electrode and an oxidizer electrode. <IMAGE>

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