

Title (en)
Fuel distribution and mixing plate

Title (de)
Platte zur Verteilung und Mischung des Kraftstoffs

Title (fr)
Plaque de distribution et de prémélange de carburant

Publication
EP 2746665 B1 20190619 (EN)

Application
EP 13197012 A 20131212

Priority
US 201213720118 A 20121219

Abstract (en)
[origin: EP2746665A2] A fuel flow passes through a micromixer 60 section of a gas turbine that includes a plurality of mixing tubes 130 for transporting a fuel/air mixture and a distribution plate 140 including a plurality of distribution holes 142 and a plurality of tube holes 144 for accommodating the mixing tubes 130. Each of the mixing tubes 130 includes a plurality of fuel holes 132 through which fuel enters the mixing tubes 130. The tube holes 144 and the mixing tubes 130 form a plurality of annulus areas 146 between the distribution plate 140 and the mixing tubes 130. The distribution holes 142 and the annulus areas 146 are configured to pass the fuel flow through the distribution plate toward the fuel holes. A flow management device modifies an effective size of the annulus areas to control a distribution of the fuel flow through the distribution holes and the annulus areas of the distribution plate to provide a uniform fuel/air composition in each of the mixing tubes.

IPC 8 full level
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CPC (source: EP)
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Cited by
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