

Title (en)
PREMIX BURNER

Title (de)
VORMISCHBRENNER

Title (fr)
BRULEUR A PREMELANGE

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Application
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Abstract (en)
[origin: WO03098110A1] The invention relates to a premix burner comprising a turbulence generator (7) for a combustion air flow and means for injecting the fuel into the combustion air flow. The turbulence generator (7) comprises one or more combustion air inlets for the combustion air flow entering the burner. The means for injecting fuel into the combustion air flow comprise one or more first fuel feed elements (8) with first fuel outlets (4). The opening diameter of the outlets and/or the injection angle thereof relative to the axial and/or radial direction is configured differently. Alternatively or additionally, some of the first fuel outlets (4) can be arranged in one or several first groups of fuel outlets which are arranged close to each other, such that each of the first groups produce a fuel jet having a large jet cross-section. The inventive burner enables improved premixing of fuel with the combustion air, especially when the fuel is injected into the combustion chamber end of the burner.

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