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Barendregt et al.

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(54) **BURNER AND A FURNACE COMPRISING SUCH A BURNER**

USPC 431/187
See application file for complete search history.

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(57) **ABSTRACT**

Burner for a furnace comprising at least one supply channel for supplying an oxidizing medium and a plurality of peripheral fuel supply channels, wherein the channels have exit openings arranged adjacent each other at a burner end surface for forming during use upon reaction of supplied fuel with supplied oxidizing medium a flame front, wherein the exit openings are asymmetrically arranged with respect to any plane arranged transverse to the end surface of the burner and extending through a burner central axis whereby the distribution of the fuel exit openings and/or the dimension of the fuel exit openings and/or the exit angle of the fuel exit openings and/or the shape of the fuel exit openings are arranged asymmetrically to said any plane, such that during use a flame front is created that is asymmetrical with respect to said any plane.

7 Claims, 4 Drawing Sheets

