

Title (en)

Burner with diffuser resistant to high operating temperatures

Title (de)

Brenner mit einem gegen hohe Betriebstemperaturen resistenten Diffusor

Title (fr)

Brûleur avec diffuseur résistant à des températures de fonctionnement élevées

Publication

**EP 2484974 A2 20120808 (EN)**

Application

**EP 12166859 A 20040618**

Priority

- EP 04740081 A 20040618
- IT MO20030180 A 20030619
- IT MO20040031 A 20040211

Abstract (en)

A urner (1; 1a; 20; 25; 115; 118), suppliable with a mixture of air and fuel, comprising a burner body provided with a diffuser (4; 4a, 4b; 23; 117; 119) in which openings are made for the passage and subsequent combustion of said mixture, said diffuser (4; 4a, 4b; 23; 117; 119) being divided into a plurality of diffuser elements (26; 26a; 26b; 26c; 26d; 44; 46; 57) that are adjacent to one another, each diffuser element (26; 26a; 26b; 26c; 26d; 44; 46; 57) being at least partially free to expand in at least one direction, said diffuser element (26; 26a; 26b; 26c; 26d; 44; 46; 57) having a box structure comprising a first face (28; 47) intended to be turned towards the outside of the burner (1; 1a; 20; 25; 115; 118) whereupon said openings (6; 27; 41, 42; 51, 52) are made for the evacuation of said mixture, and a second face (29; 48) opposite said first face (28; 47), intended to be turned towards the inside of the burner (1; 1a; 20; 25; 115; 118) wherein further openings (31; 32, 33; 34; 54) are made for the passage of said mixture, said second face (29; 48) acting as a distributing element of the flow of said mixture, wherein on said second face (29; 49) an incision (30; 55) is made, that extends along the entire length of said face.

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

- EP 0474008 A1 19920311 - MERCK PATENT GMBH [DE]
- EP 0774623 A1 19970521 - DEJATECH BV [NL]
- EP 0679838 A1 19951102 - CHAFFOTEAUX ET MAURY [FR]
- JP S5835314 B2 19830802

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