

Title (en)
Low-NOx burner with metal fibers

Title (de)
Stickstoffoxidarmer Brenner mit Metallfasern

Title (fr)
Brûleur à faible NOx avec des fibres métalliques

Publication
EP 2871414 A1 20150513 (EN)

Application
EP 14191980 A 20141106

Priority
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Abstract (en)
The present invention discloses a burner including a shell, a number of fuel-air mixing elements, and a metal fiber cover. The burner is received in the shell for mixing introduced air and fuel gas to generate a fuel-air mixture. The metal fiber cover is received in the shell and positioned above the number of fuel-air mixing elements for burning the fuel-air mixture thereon. By employing a number of fuel-air mixing elements, the fuel gas and air can be completely mixed to a predetermined stoichiometric proportion before reaching the metal fiber cover, thereby achieving a full combustion on metal fibers and reducing the generation of nitrogen oxides accordingly.

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Citation (applicant)

- EP 0157432 B1 19881214
- EP 0628146 B1 19981216 - BEKAERT SA NV [BE], et al
- EP 0157432 B1 19881214

Citation (search report)

- [XYI] DE 19533588 A1 19960307 - VAILLANT JOH GMBH & CO [DE]
- [Y] CN 102635863 A 20120815 - VAILLANT WUXI HEATING EQUIPMENT CO LTD
- [YD] EP 0628146 B1 19981216 - BEKAERT SA NV [BE], et al
- [A] DE 19518026 A1 19951130 - VAILLANT JOH GMBH & CO [DE]

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