

Title (en)
PREMIX GAS BURNER

Title (de)
VORMISCH-GASBRENNER

Title (fr)
BRÛLEUR À GAZ PRÉMÉLANGÉ

Publication
EP 4290135 A1 20231213 (EN)

Application
EP 22382547 A 20220608

Priority
EP 22382547 A 20220608

Abstract (en)
Premix gas burner for a gas boiler comprising a combustion area and a mixing unit communicated with the combustion area, with a mixture of an oxidizer and a fuel being generated in the mixing unit, which mixture is driven towards the combustion area by a fan. The burner further comprises between the mixing unit and the combustion area a first passage area 5 comprising a first shutter 6 which, in a resting position, prevents the passage of the mixture, with said first shutter 6 being configured for being moved and allowing the passage of the mixture when the mixture exerts a pressure higher than a first threshold pressure on said shutter 6, and a second passage area arranged between the first passage area 5 and the combustion area comprising a second shutter 7. The second shutter 7 comprises a resting position in which the passage of a minimum flow rate of the mixture through the second passage area is allowed, with the second shutter 7 being configured for being moved and allowing the passage of a larger flow rate of the mixture when said mixture exerts a pressure higher than a second threshold pressure greater than the first threshold pressure.

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Citation (applicant)
EP 3754267 A1 20201223 - VAILLANT GMBH [DE]

Citation (search report)

- [YD] EP 3754267 A1 20201223 - VAILLANT GMBH [DE]
- [Y] EP 2660515 A2 20131106 - DAESUNG IND CO LTD [KR]
- [A] US 2016161112 A1 20160609 - ZATTI CLAUDIO [IT], et al

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