

Title (en)
A BURNER WITH A METAL MEMBRANE

Title (de)
BRENNER MIT EINER METALLMEMBRAN

Title (fr)
BRÛLEUR À MEMBRANE MÉTALLIQUE

Publication
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Application
EP 04714333 A 20040225

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Abstract (en)
[origin: WO2004092647A1] The invention relates to a gas burner comprising a metal burner membrane having a base section (201), a dosing section (203) and a transition region in between (202). The shape of the membrane is such that the smallest radius of curvature of the transition zone is smaller than the smallest radius of curvature of the base section. Furthermore the burner membrane uninterruptedly flows over from the base section through the transition region into the closing section. The advantages of such a gas burner are amongst others a large dynamic power range, an improved flame front and a low production cost.

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Citation (examination)

- US 6065963 A 20000523 - DEWAEGHENEIRE GABRIEL [BE], et al
- US 5203689 A 19930420 - DUGGAN ROBERT B [US], et al
- DE 4219443 A1 19931216 - VIESMANN HANS DR [DE]
- US 4480988 A 19841106 - OKABAYASHI MAKOTO [JP], et al
- US 5468143 A 19951121 - WEBER HORST [DE], et al

Cited by
US11215366B2; WO2019011736A1; WO2018215241A1; WO2019011738A1

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