

Title (en)

Burner with reduced emission of pollutants.

Title (de)

Brenner mit reduzierter Schadstoffemission.

Title (fr)

Brûleur à l'émission réduite de polluants.

Publication

**EP 0538684 A2 19930428 (DE)**

Application

**EP 92117234 A 19921008**

Priority

DE 4134979 A 19911023

Abstract (en)

The invention relates to a burner for combustion, which is low in pollutants, of a fuel (natural gas) with an oxidation gas. As a result of the oblong, in particular wedge-shaped design according to the invention of the outlet openings of the admission ducts for the oxidation gas, an NO<sub>x</sub> reduction is achieved as a result of increased waste gas recirculation and stepwise combustion.

Abstract (de)

Brenner zur schadstoffarmen Verbrennung eines Brennstoffes (Erdgas) mit einem Oxidationsgas. Durch die erfindungsgemäße längliche, insbesondere keilförmige Ausbildung der Austrittsöffnungen (1) der Zuleitungskanäle für das Oxidationsgas wird eine NO<sub>x</sub>-Reduzierung aufgrund erhöhter Abgasrezirkulation und stufenweiser Verbrennung erreicht. <IMAGE>

IPC 1-7

**F23D 14/22**; **F23D 14/32**

IPC 8 full level

**F23D 14/58** (2006.01); **F23D 14/22** (2006.01); **F23D 14/32** (2006.01); **F23D 14/62** (2006.01)

CPC (source: EP)

**F23D 14/22** (2013.01); **F23D 14/32** (2013.01)

Cited by

CN102230631A; US2018335209A1; US10619847B2

Designated contracting state (EPC)

AT CH DE ES FR GB IT LI NL PT

DOCDB simple family (publication)

**EP 0538684 A2 19930428**; **EP 0538684 A3 19930714**; **EP 0538684 B1 19970129**; AT E148547 T1 19970215; CZ 282672 B6 19970813; CZ 319692 A3 19930616; DE 4134979 A1 19930429; DE 59207985 D1 19970313; ES 2096693 T3 19970316; SK 319692 A3 19950308

DOCDB simple family (application)

**EP 92117234 A 19921008**; AT 92117234 T 19921008; CS 319692 A 19921022; DE 4134979 A 19911023; DE 59207985 T 19921008; ES 92117234 T 19921008; SK 319692 A 19921022