

Title (en)

Heating arrangement comprising a burner having a pilot flame.

Title (de)

Heizvorrichtung mit einem Brenner der eine Zündflamme besitzt.

Title (fr)

Dispositif de chauffage comprenant un brûleur avec une veilleuse.

Publication

**EP 0081470 A1 19830615 (EN)**

Application

**EP 82850228 A 19821111**

Priority

FR 8122737 A 19811204

Abstract (en)

The heating apparatus comprises a burner (10) and a control device (25) for controlling the gas supply to the burner. During the heating period the burner is alternately lit and extinguished at intervals determined by the control and which may be in response to separately sensed temperature values. The burner (10) comprises a main venturi tube (11) leading to the burner head (12) having a mixing chamber (17) and ports (15) for creating the burner main flames. Within the burner head there is provided an additional mixing chamber (49) communicating with at least one port (48) for creating a pilot flame. The mixing chamber (49) is separately supplied with gas via an additional venturi tube (52). The pilot flame remains lit continuously irrespective of whether the main burner flame is lit or extinguished. The pilot gas supply is manually controlled by the gas cock (22) with a security valve (45) being operated by the thermocouple (46) positioned to be heated by the pilot flame.

IPC 1-7

**F23N 5/22**; **F23D 13/10**

IPC 8 full level

**F23N 5/22** (2006.01); **F23N 5/10** (2006.01)

CPC (source: EP)

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Citation (search report)

- [AD] FR 2418910 A1 19790928 - ELECTROLUX AB [SE]
- [A] DE 524547 C 19310508 - VOSSWERKE AKT GES
- [A] US 2499707 A 19500307 - WARREN HARRY L
- [A] FR 783565 A 19350716
- [A] DE 306213 C
- [A] DE 335942 C 19210419 - PATENT GRUDEOFEN FABRIK WALTER
- [A] DE 580338 C 19330708 - JAN HENDRIK WINDEMUELLER
- [A] DE 1251490 B

Cited by

DE19905198A1; US6263868B1

Designated contracting state (EPC)

BE DE FR GB

DOCDB simple family (publication)

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