

Title (en)

Domestic exothermic reactor for the combustion of gas oil gases.

Title (de)

Exothermischer-Haushaltreaktor für die Verbrennung von Gasölgasen.

Title (fr)

Réacteur exothermique domestique pour le combustion de gaz de gasole.

Publication

EP 0648975 A1 19950419 (EN)

Application

EP 94114854 A 19940921

Priority

EP 93500140 A 19931014

Abstract (en)

THE DOMESTIC EXOTHERMIC REACTOR FOR THE COMBUSTION OF GAS OIL GASES incorporates two chambers. A cylindrical inner chamber formed by an element 1 and an outer chamber formed by such element 1 and the housing 4. The fuel arrives to the inner chamber and backs up at a concave bottom 2 where it evaporates due to the heat therefore producing an ascending flow which is interfered by two deflector rings 7 and 8. The upper ring supports a central element formed by two perforated plates 16 and 17, which in turn support the reticulated tubular elements 18, 19 and 20 ending on a head 24 and which warm the evaporating gases which initiate their combustion by means of the air supply to the outer chamber through an orifice 6 and which reaches the inner part of the reactor through rows of orifices 11, 12, 13, 14 and 15. The invention can be applied to industrial and domestic stoves. <IMAGE>

IPC 1-7

F23C 1/00; **F23D 5/04**; **F23D 5/12**

IPC 8 full level

F23D 5/04 (2006.01); **F23D 5/12** (2006.01)

CPC (source: EP)

F23D 5/04 (2013.01); **F23D 5/123** (2013.01)

Citation (search report)

- [X] FR 2104567 A5 19720414 - NIEDERSCHELD GMBH ARMATURWERK
- [Y] FR 1532452 A 19680705 - AIRFLAM LE CHAUFFAGE DOMESTIQUE
- [YA] FR 1486727 A 19670630 - NIEDERSCHELD GMBH ARMATURWERK
- [A] DE 3544494 A1 19870619 - ZIDORN WERNER [DE]
- [A] BE 886055 A 19810302 - FRANK SCHE EISENWERKE AG
- [A] FR 2465157 A1 19810320 - BARRAUD GEORGES [FR]

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI NL PT

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