

Title (en)  
CLOSED FIREBOX FOR AN OPEN FIREPLACE

Publication  
**EP 0110801 A3 19860423 (FR)**

Application  
**EP 83440059 A 19831129**

Priority  
FR 8220170 A 19821130

Abstract (en)  
[origin: EP0110801A2] 1. High output closed fire unit for calorie recovery fireplaces provided with a front access door, which may or may not be glazed, and a casing (25) with expulsion of the heated air forwards, the said casing (25) having an expulsion volume (34) extending over the complete upper portion of the fire unit for evacuating the air heated about the fire unit (2) in the casing (25), the expulsion volume (34) giving out to the outside, above the access door and a valve (10) for the direct evacuation of the fumes, disposed above the fire unit (2), the fumes and combustion gases escaping towards the evacuation conduit in the lower portion of the fire unit (2), characterised in that the said fire unit (2) is provided in front of its rear wall (4) with a deflection plate (3) which is removable and mobile, and which is mounted so that it slides along verticle slides (8) or pivots about a horizontal access (7) and the length of which is shorter than the height of the fire unit in such a way as to form, between the rear wall and the lower edge of the said deflection plate (3), a passage (6) having a section which is adjustable as a function of the position of the said plate, passage through which are evacuated the combustion gases and fumes under permanent operating conditions, the said plate delimiting, with the rear wall of the fire unit, an additional recovery compartment (5) which is extended upwards by a fume box having two longitudinal channels (23) and (24) delimiting a central passage (29) and an evacuation volume (30) of the fumes, into which gives out the valve (10), evacuation volume extending horizontally in the upper portion of the fire unit below the expulsion volume (34), in that the access door is provided in the elements of its frame with air distribution ramps such as (18) with openings of larger section for the upper ramp connected to a general air inlet situated in the lower portion of the fire unit and in that the fumes conduit (28) gives out into the evacuation volume (30) towards the rear of the apparatus near the deflection plate (3).

IPC 1-7  
**F24B 7/02**; **F24B 1/02**

IPC 8 full level  
**F24B 1/02** (2006.01); **F24B 1/188** (2006.01); **F24B 7/02** (2006.01)

CPC (source: EP)  
**F24B 1/02** (2013.01); **F24B 1/1885** (2013.01)

Citation (search report)  
• [E] FR 2555712 A1 19850531 - FONDIS SA [FR]  
• [E] FR 2544466 A1 19841019 - BUDZINSKI JEAN [FR]  
• [AP] FR 2524968 A1 19831014 - SELVA GUY [FR]  
• [A] US 4354480 A 19821019 - HENDERSON LOUIS L, et al  
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Designated contracting state (EPC)  
AT BE CH DE GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0110801 A2 19840613**; **EP 0110801 A3 19860423**; **EP 0110801 B1 19890607**; AT E43896 T1 19890615; CA 1257161 A 19890711; DE 3380037 D1 19890713; DK 548983 A 19840531; DK 548983 D0 19831130; ES 284541 U 19850601; ES 284541 Y 19860216; FI 834381 A0 19831130; FI 834381 A 19840531; FR 2536835 A1 19840601; FR 2536835 B1 19881028; NO 834386 L 19840601

DOCDB simple family (application)  
**EP 83440059 A 19831129**; AT 83440059 T 19831129; CA 442246 A 19831130; DE 3380037 T 19831129; DK 548983 A 19831130; ES 284541 U 19831129; FI 834381 A 19831130; FR 8220170 A 19821130; NO 834386 A 19831129