

Title (en)  
BUILT-IN WOOD BURNING HEATING DEVICE WITH VISIBLE FIRE

Publication  
**EP 0059151 B1 19860709 (FR)**

Application  
**EP 82400313 A 19820223**

Priority  
FR 8103579 A 19810224

Abstract (en)  
[origin: EP0059151A1] 1. Heating System which burns wood with hearth of a type made up of a metal casing (1) with a double wall (8) so that heat can be reused. The doors (13) are made of translucent material with "avaloir" (2) located at the top end of the hearth and flame deflector (3) located in front of the flue (6), a base in the lower part of the basket (16) and ash collector (17) as well as a sliding door (18) used to regulate the draught characteristic of this apparatus is that there is no superstructure, that the exhaust of the funics is done through the upper part at the rear end and that the flame deflector (3) is located at the base of the flue at a closed angle it joins the vertical parts of the heating system and leaves a gap between the top of the casing and a or the sides of the plates forming the "avaloir", inclined toward the outside so that the space in front of the "manchon" of the fume deflector (6), the top of the casing, the sides of the "avaloir" (2), make a decompression volume (5), from which are extracted the fumes from the hearth, the section of the fumes conduct being equal or higher than 200 cm\*\*2 (7) the walls of the casing are lined with refractory fire bricks which store the heat to give it off to the convection air at the bottom of the apparatus through a box with regulator flowing (11) into a double metallic wall through chicanes (9) which has the effect of enlarging the surface for heat exchange.

IPC 1-7  
**F24B 7/02**; **F24B 1/185**

IPC 8 full level  
**F24B 1/18** (2006.01); **F24B 1/188** (2006.01); **F24B 1/192** (2006.01)

CPC (source: EP)  
**F24B 1/18** (2013.01); **F24B 1/1885** (2013.01); **F24B 1/192** (2013.01)

Cited by  
GB2149498A; CN103017204A; EP3296642A1; EP3457032A1

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