

Title (en)  
RADIANT HEATING SYSTEM WITH DIRECT-FIRED COMBUSTION CHAMBER

Publication  
**EP 0079526 B1 19850116 (DE)**

Application  
**EP 82110132 A 19821103**

Priority  
DE 3143602 A 19811103

Abstract (en)  
[origin: EP0079526A1] 1. A radiant heating system comprising at least one closed radiant tube system (1), which extends from the outlet side (7) to the return side (6) of a directly fired combustion chamber (3) and in which a gaseous heating fluid, such as particularly air, is adapted to be circulated by means of a circulating fan (2), also comprising a discharge opening (11), which is open to the outside air and serves to discharge surplus quantities of the heating fluid from the closed cycle in dependence on the supply of exhaust gas in the combustion chamber, characterized in that the circulating fan (2) is arranged near the return side (6) of the combustion chamber, an agitating zone (10) is provided between the pressure side of the circulating fan (2) and the return side (6) of the combustion chamber (3) and serves to convert dynamic pressure of the heating fluid into static pressure, and the discharge opening (11) is provided adjacent to the agitating zone (10).

IPC 1-7  
**F24D 5/08**

IPC 8 full level  
**F24D 5/08** (2006.01)

CPC (source: EP)  
**F24D 5/08** (2013.01)

Cited by  
IT201600085950A1; FR2874419A1; FR2787557A1; EP0244639A3; DE3403993A1; EP3121521A1; GB2443642A; EP0647819A1; EP3056809A1; WO2006120717A1; WO2007054507A1; US8132738B2; EP2486330B1; WO2011036645A1

Designated contracting state (EPC)  
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**EP 0079526 A1 19830525; EP 0079526 B1 19850116**; AT E11336 T1 19850215; DE 3143602 A1 19830511; DE 3143602 C2 19840510; DE 3261975 D1 19850228

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