

Title (en)  
HEATING SYSTEM WITH RADIANT STRIPS

Title (de)  
HEIZSYSTEM MIT STRAHLENDEN STREIFEN

Title (fr)  
SYSTÈME DE CHAUFFAGE À BANDES RAYONNANTES

Publication  
**EP 3346198 A1 20180711 (EN)**

Application  
**EP 17207170 A 20171213**

Priority  
IT 201600126485 A 20161214

Abstract (en)  
Heating system with radiant strips comprising a burner (5) housed in a containment structure (3) and provided with a combustion chamber (6) and with means (8) for supplying a fuel mixture and a ventilator (9), housed in the containment structure (3), provided with a fan (10) inserted in a recirculation duct (4) and operating in a suction fashion to force the carrier fluid (F) which traverses the radiant strips (2). The burner (5) is of premix type and comprises a conveniently cylindrical combustion head (12) provided with a metal mesh (13) on which the combustion occurs, and is extended into the combustion chamber (6) for at least the section (7') in which this traverses the recirculation duct (4). The supply means (8) of the burner (5) comprise a modulating blower (14) which suctions an adjustable flow, and an electropneumatic controlled valve (15), which is connected to a source of supply gas, and to the modulating blower (14) to which it is susceptible of sending a gas flow as a function of the air suctioned by the modulating blower (15), which are mixed together in the modulating blower (15) and injected by the latter in the combustion head (12) in order to obtain a flame on the cylindrical mesh (13) thereof.

IPC 8 full level  
**F24D 5/08** (2006.01); **F23C 3/00** (2006.01); **F23D 14/02** (2006.01); **F23D 14/14** (2006.01)

CPC (source: CN EP RU)  
**F23C 3/002** (2013.01 - EP); **F23C 9/00** (2013.01 - EP); **F23D 14/02** (2013.01 - EP); **F23D 14/12** (2013.01 - CN); **F23D 14/145** (2013.01 - EP); **F23D 14/60** (2013.01 - CN EP); **F23L 3/00** (2013.01 - EP); **F23L 5/02** (2013.01 - EP); **F24D 3/00** (2013.01 - RU); **F24D 5/08** (2013.01 - EP); **F23C 2202/10** (2013.01 - EP); **F23N 2233/08** (2020.01 - EP); **F23N 2235/06** (2020.01 - EP); **F23N 2235/12** (2020.01 - EP)

Citation (search report)  
• [A] DE 9103004 U1 19910613  
• [A] US 2009042155 A1 20090212 - TURNER GLYN WILFRED [GB], et al  
• [A] WO 2006120717 A1 20061116 - SYSTEMA S P A [IT], et al  
• [A] EP 0391818 A1 19901010 - GAZ IND SA [FR]  
• [A] EP 0248629 A2 19871209 - AMBI RAD LTD [GB]

Cited by  
GB2607411A; IT202000003224A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3346198 A1 20180711**; **EP 3346198 B1 20190807**; CN 108224424 A 20180629; HU E046039 T2 20200128; IT 201600126485 A1 20180614; PL 3346198 T3 20200331; RU 2017143617 A 20190613; RU 2017143617 A3 20210414; RU 2749629 C2 20210616

DOCDB simple family (application)  
**EP 17207170 A 20171213**; CN 201711340371 A 20171214; HU E17207170 A 20171213; IT 201600126485 A 20161214; PL 17207170 T 20171213; RU 2017143617 A 20171213