

Title (en)
INFRARED RADIATOR THAT IS DESIGNED AS SURFACE RADIATOR

Title (de)
ALS FLÄCHENSTRAHLER AUSGEBILDETER INFRAROT-STRAHLER

Title (fr)
BRULEUR A EMISSION D'INFRAROUGES SOUS FORME D'EMETTEUR PLAN

Publication
EP 1141630 A1 20011010 (DE)

Application
EP 99967953 A 19991217

Priority
• DE 19901145 A 19990114
• EP 9910034 W 19991217

Abstract (en)
[origin: DE19901145A1] Infrared radiators designed as surface radiators are already known per se. Said infrared radiators are provided with a radiating body (15) which is heated at the rear by a combustible fluid-air mixture and which has a front side that emits infrared radiation. According to the invention, the radiating body (15) contains numerous ducts (20) which are used as cavity radiators. The ratio of the wall surface to the cross-section surface in the flame-free area of said ducts is greater than 10, preferably greater than/equal to 20.

IPC 1-7
F23D 14/14

IPC 8 full level
F23D 14/14 (2006.01)

CPC (source: EP US)
F23D 14/145 (2013.01 - EP US); **F23D 14/147** (2021.05 - EP US); **F23D 2203/102** (2013.01 - EP US); **F23D 2212/10** (2013.01 - EP US); **F23D 2212/20** (2013.01 - EP US)

Citation (search report)
See references of WO 0042356A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
DE 19901145 A1 20000720; EP 1141630 A1 20011010; US 6575736 B1 20030610; WO 0042356 A1 20000720

DOCDB simple family (application)
DE 19901145 A 19990114; EP 9910034 W 19991217; EP 99967953 A 19991217; US 88945201 A 20010712