

Title (en)

A radiant heating system having an improved burner head.

Title (de)

Strahlungsheizsystem mit verbessertem Brennerkopf.

Title (fr)

Système de chauffage rayonnant ayant une pointe de chalumeau perfectionnée.

Publication

EP 0034264 A1 19810826 (EN)

Application

EP 81100432 A 19810121

Priority

US 12202480 A 19800215

Abstract (en)

A radiant heating system has a plurality of burner heads (10) operatively arranged in a burner branch (12-14) at spaced locations therealong. A combustible gas, having a desired fuel-air mix, is ignited and burned at each burner head. Such combustion heats a downstream length (12) of pipe, which radiates heat within an environment to be warmed. A vacuum pump associated with the system ensures a flow of air products of combustion through the burner branch. The burner head projects into and is arranged within a combustion chamber (13), in series with the radiant pipe. The projected cross-sectional area of the improved burner head is not more than sixty-five percent of the cross-sectional area of the combustion chamber. The improved burner head reduces, within practical limits, velocity attenuation of the flow around the burner head, and also reduces the pressure drop of such flow around the burner head.

IPC 1-7

F24C 3/08; **F24C 15/24**; **F24H 3/00**; **F24H 9/18**; **F24D 5/00**

IPC 8 full level

F23C 3/00 (2006.01); **F24C 3/12** (2006.01); **F24D 5/08** (2006.01)

CPC (source: EP)

F23C 3/002 (2013.01); **F24C 3/122** (2013.01); **F24D 5/08** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0034264 A1 19810826; DK 23881 A 19810816; GB 2070227 A 19810903; GB 2070227 B 19830713; IE 50554 B1 19860514; IE 810033 L 19810815

DOCDB simple family (application)

EP 81100432 A 19810121; DK 23881 A 19810120; GB 8030445 A 19800919; IE 3381 A 19810108