

Title (en)

Supporting the weight of a structure in a hot environment.

Title (de)

Abstützen der Last eines Bauteiles in einer heissen Umgebung.

Title (fr)

Supporter le poids d'une structure dans un milieu chaud.

Publication

EP 0065046 A1 19821124 (EN)

Application

EP 81302221 A 19810519

Priority

EP 81302221 A 19810519

Abstract (en)

At least part of the weight of a structure (such as a bank 29 of heat recovery tubes 16) exposed to a hot environment (e.g. the convection region 33 of a furnace) is supported by at least one multi-pipe heat exchanger (31) of which the outer pipe (38) has dimensions at least adequate to bear the imposed load, and the inner pipe(s) (36) is/are so dimensioned in relation to the outer pipe (38) as to maintain the outer pipe (38) at a temperature at which its load-bearing strength is maintained for a reasonable and/or acceptable cooling fluid flow rate through the heat exchanger (31). In one embodiment, the heat exchanger (31) is of the double pipe type, and at least some of the cooling fluid may be circulated from the heat exchanger (31) to the bank (29) of heat recovery tubes (16).

IPC 1-7

C10G 9/20; **F22B 37/20**

IPC 8 full level

C10G 9/20 (2006.01); **F22B 37/20** (2006.01)

CPC (source: EP)

C10G 9/20 (2013.01); **F22B 37/202** (2013.01)

Citation (search report)

- US 3566845 A 19710302 - BARNES MARION W
- US 1989612 A 19350129 - DE FLOREZ LUIS
- US 3885530 A 19750527 - KIVLEN JOHN A, et al
- US 3026858 A 19620327 - FLEISCHER KURT W
- US 2355892 A 19440815 - PRAEGER FRANK H
- US 3259112 A 19660705 - LEE FRANK A

Cited by

EP0253633A3; EP0492398A1

Designated contracting state (EPC)

DE FR GB NL SE

DOCDB simple family (publication)

EP 0065046 A1 19821124; **EP 0065046 B1 19850814**; DE 3171796 D1 19850919

DOCDB simple family (application)

EP 81302221 A 19810519; DE 3171796 T 19810519