

Title (en)  
APPARATUS FOR HEATING A CURRENT OF GAS

Publication  
**EP 0322627 B1 19920401 (DE)**

Application  
**EP 88120766 A 19881213**

Priority  
DE 3744498 A 19871230

Abstract (en)  
[origin: US5014339A] A device for heating a flow of substantially pure gas flowing in a flow direction to temperatures above about 600 DEG C. is disclosed. The device includes a heat exchanger having a heat exchanger surface extending transversely to the flow direction whereby the substantially pure gas flows across the heat exchanger surface. The heat exchanger is made of a ceramic material for heating the pure gas without contaminating the gas flow. An infrared radiation source arranged outside of the flow of pure gas irradiates the heat exchanger surface.

IPC 1-7  
**F24H 3/04; H05B 3/00**

IPC 8 full level  
**F24J 2/00** (2006.01); **B01J 19/00** (2006.01); **F24H 3/04** (2006.01); **H05B 3/00** (2006.01)

CPC (source: EP US)  
**F24H 3/0405** (2013.01 - EP US); **F28D 7/1615** (2013.01 - EP US); **H05B 3/0052** (2013.01 - EP US); **F28F 1/02** (2013.01 - EP US)

Citation (examination)

- US 3519255 A 19700707 - COOPER HAL B H
- US 3519064 A 19700707 - COOPER HAL B H
- US 3550919 A 19701229 - COOPER HAL B H

Cited by  
US8975563B2

Designated contracting state (EPC)  
AT CH FR GB IT LI

DOCDB simple family (publication)  
**US 5014339 A 19910507**; AT E74419 T1 19920415; CA 1309311 C 19921027; DE 3744498 C1 19890316; EP 0322627 A1 19890705; EP 0322627 B1 19920401; JP H01297139 A 19891130

DOCDB simple family (application)  
**US 28745188 A 19881220**; AT 88120766 T 19881213; CA 587141 A 19881228; DE 3744498 A 19871230; EP 88120766 A 19881213; JP 32949188 A 19881228