

Title (en)  
Heating unit for gases

Title (de)  
Heizkörper für gasförmige Medien

Title (fr)  
Dispositif de chauffage pour gaz

Publication  
**EP 1418794 B1 20050316 (DE)**

Application  
**EP 03025389 A 20031105**

Priority  
DE 20217309 U 20021109

Abstract (en)  
[origin: US2004091250A1] An electric heater for gaseous media with at least one support plate and at least one helix of corrugated, electric resistance heating wire wound continuously around the support plate and whose turns are held by means of heating wire bend-offs on the longitudinal edges of the support plate is characterized in that the heating wire is positioned in such a way that it only contacts longitudinal narrow sides and/or edges of the longitudinal narrow sides of the support plate, the bending angle being much larger than 40°. This significantly reduces the risk of thermal damage to the heating wire, particularly in the vicinity of the plate edges. As a result of the largely naturally stable design of the heating wire, the heater according to the invention requires no spacers between the support plates and is therefore particularly simple and inexpensive to manufacture.

IPC 1-7  
**H05B 3/06**; **H05B 3/16**; **F24H 3/04**

IPC 8 full level  
**F24H 3/04** (2006.01); **H05B 3/06** (2006.01); **H05B 3/16** (2006.01)

CPC (source: EP US)  
**H05B 3/16** (2013.01 - EP US); **H05B 2203/022** (2013.01 - EP US)

Cited by  
EP1884962A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**US 2004091250 A1 20040513**; **US 6864467 B2 20050308**; AT E291339 T1 20050415; DE 20217309 U1 20030130; DE 50300369 D1 20050421; EP 1418794 A1 20040512; EP 1418794 B1 20050316

DOCDB simple family (application)  
**US 70250403 A 20031107**; AT 03025389 T 20031105; DE 20217309 U 20021109; DE 50300369 T 20031105; EP 03025389 A 20031105