

Title (en)  
SHAPE OF FUEL GAS PASSAGES IN BOILERS

Publication  
**EP 0120435 B1 19881019 (DE)**

Application  
**EP 84102993 A 19840319**

Priority  
DE 3310072 A 19830321

Abstract (en)  
[origin: EP0120435A2] 1. Heating gas flue for heating boilers for burning liquid or gaseous fuels, consisting of a water carrying wall of which the part nearest the combustion chamber is double-walled and is provided with longitudinal ribs which divide the entire cross section of the flue into individual channels, characterised in that the longitudinal ribs are constructed as U-, L- or T-profiles (1) and are arranged so that their webs (2) which extend transversely to the free legs (9) entirely cover the wall (3) nearest the combustion chamber and rest on this wall (3) and in places are welded to the wall (3) in heat-conducting manner, in such a way that the heat-conducting cross sections of the heat conductive bridges (5) thus formed decrease towards the outlet end of the heating gas flue corresponding to the outlet end of the boiler, longitudinal weld slots (16) or weld connections free from added weld material being arranged in order of decreasing length, with increasingly great spacings therebetween, on the webs (2) of the profiles (1), to form the gradually effective conductive bridges (5).

IPC 1-7  
**F24H 1/28**

IPC 8 full level  
**F24H 1/26** (2006.01); **F24H 1/28** (2006.01)

CPC (source: EP)  
**F24H 1/263** (2013.01)

Cited by  
EP0662592A1; EP0217320A3

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0120435 A2 19841003; EP 0120435 A3 19860122; EP 0120435 B1 19881019**; AT E38091 T1 19881115; DE 3310072 A1 19841004; DE 3310072 C2 19861218; DE 3474716 D1 19881124

DOCDB simple family (application)  
**EP 84102993 A 19840319**; AT 84102993 T 19840319; DE 3310072 A 19830321; DE 3474716 T 19840319