

Title (en)

Shape of fuel gas passages in boilers.

Title (de)

Heizgaszugausbildung an Heizungskesseln.

Title (fr)

Structure du parcours du gaz de chauffage dans une chaudière de chauffage.

Publication

EP 0120435 A2 19841003 (DE)

Application

EP 84102993 A 19840319

Priority

DE 3310072 A 19830321

Abstract (en)

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 graduatedly effective conductive bridges (5).

Abstract (de)

Die Heizgaszugausbildung ist für Heizkessel zum Verbrennen flüssiger oder gasförmiger Brennstoffe bestimmt und besteht aus mindestens einer wasserführenden Wand, an der, den gesamten Zugquerschnitt in Einzelkanäle gliedernd, Rippen angeordnet sind. Die Rippenprofile (1) sind als mindestens einsträngig U-förmig ausgebildete Profile ausgebildet und decken mit ihren Basisstegen (2) die ganze Wand (3) ab. In teilbereichen sind die Rippenprofile mit der Wand (3) derart wärmeleitend verbunden, daß die Wärmeleitquerschnitte der gebildeten Wärmeleitbrücken zur Abgasseite des Kessels hin abnehmen.

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