

Title (en)

BURNER FOR HEATING THE AIR ARRANGED IN A DUCT THROUGH WHICH THE AIR FLOWS

Publication

EP 0092817 B1 19850925 (DE)

Application

EP 83103956 A 19830422

Priority

DE 3214923 A 19820422

Abstract (en)

[origin: US4492563A] A burner for heating air flowing in a passage in which the burner is disposed comprises a tube connected to the gas supply. The tube has mixing plates with flow apertures for the air secured to it to diverge from each other conically in the direction of air flow and is provided with gas outlet apertures between the mixing plates. The burner also comprises ignition means for the gas. The tube is in the form of a circular annulus and has gas outlet apertures in circumferential directions. The mixing plates consist of an outer conically diverging and an inner conically converging annular plate, the plates being at least partially bounded over their axial length by an air guide plate which converges conically in the direction of air flow and which is secured to the wall of the air passage for axial displacement. The ignition means are disposed in front of the gas outlet apertures which are arranged on a circle or a plurality of concentric circles.

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