

Title (en)
BURNER WITH ADJUSTABLE AIR OR GAS INJECTION

Title (de)
BRENNER MIT EINSTELLBARER LUFT- ODER GASINJEKTION

Title (fr)
BRÛLEUR A INJECTION D'AIR OU DE GAZ AJUSTABLE

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Application
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Abstract (en)
[origin: WO2016020587A1] The present invention relates to a burner (1) that comprises a conduit for primary air or gas delimited by an outer wall and a concentric inner wall of axis X and conduits (21) for injecting radial primary air or gas, said burner being characterised in that the air or gas conduit (22) comprises a ring (3) rotatably mobile and having axial protrusions constituting distributors (30) that engage with the radial primary air conduits (21) disposed on the inner wall and form two channels (210, 211) of different angles in each conduit (21). The rotation of the ring (3) makes it possible to vary the injection angle of the radial primary air. Therefore, the adjustment is located just at the end of the burner (1), at the outlet of primary air into the furnace, by modifying the outlet angle of the radial component having a fixed cross-section, which greatly simplifies the adjustment of the burner (1). This avoids bringing into rotation mobile parts that are in direct contact with the outside of the burner and therefore subject to very high thermal stress with a risk of damage to said parts.

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