

Title (en)
BURNER ARRANGEMENT

Title (de)
BRENNERANORDNUNG

Title (fr)
SYSTÈME DE BRÛLEUR

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Abstract (en)
[origin: WO2007113054A1] The invention relates to a burner arrangement (20) having a conical swirl body, arranged concentrically to a burner axis (21), in the form of a double cone (11) which encloses a swirl space (17), and having a central fuel lance (12) which lies in the burner axis (21) and projects from the cone tip of the swirl body (11) into the swirl space (17), wherein a first stage (18) for spraying premix fuel is provided, in which the premix fuel is sprayed radially outwards into the swirl space (17) through spray openings arranged on the fuel lance (12), and wherein a second stage (14) for spraying premix fuel is provided, in which the premix fuel is sprayed through spray openings in the double cone (11) in an air flow directed in the double cone (11). In such a burner arrangement, the gas pressure required in the first stage is reduced by virtue of the fact that, in the first stage (18), all the premix fuel is sprayed into the swirl space (17) through two opposite spray openings (19) having increased opening diameter.

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