

Title (en)
PREMIX BURNER

Title (de)
VORMISCHBRENNER

Title (fr)
BRULEUR A PREMELANGE

Publication
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Application
EP 05803397 A 20051027

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Abstract (en)
[origin: WO2006048405A1] The invention relates to a premix burner for a heat producing device comprising partial conical plates (5) which complete each other for forming a swirl body, embrace a conical expansion swirl chamber (6) and delimit mutually tangent air inlet grooves (7). The inventive burner also comprises conduits for supplying fuel gas and/or fluid, wherein at least one conduit is arranged along the air inlet groove (7) on the partial conical plates (5) and at least one of them is arranged along the burner axis (A) crossing the swirl chamber (6) in the middle thereof. Said invention is characterised in that at least one partial conical plate (5) encompasses the swirl chamber (6) and defines n air inlet grooves (7), wherein n=3, and the n air inlet grooves have at least a maximum groove width (10) which is equal to or greater than the groove width (10) of a conventional premix burner (1) of the same size and dimensions, with m=2 partial conical plates (5) and m air inlet grooves.

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