

Title (en)
A vaporizing type burner.

Title (de)
Verdampfungsbrenner.

Title (fr)
Brûleur à vaporisation.

Publication
EP 0594988 A1 19940504 (EN)

Application
EP 93114279 A 19930906

Priority
JP 31107792 A 19921028

Abstract (en)
A vaporizing type burner includes a cylindrical body (28) of which one end is closed with a wall plate (18), and an axially extending combustion chamber (46) is defined in the cylindrical body (28). A support member (32) for a fuel absorber (34) is received in the combustion chamber (46). A cylindrical mixer (48) axially protruding into the combustion chamber (46) for a gas mixture by mixing combustion air from an air swirl flow chamber (14) with vaporized fuel from the fuel absorber (34). In addition, the burner includes a guide pipe (58) of which one end communicates with the air swirl flow chamber (14) and of which the other end communicates with the combustion chamber (46), and is provided to extend through the support member (32) and the fuel absorber (34). To ignite the gas mixture, an ignition plug (60) is disposed in the guide pipe (58) in a concentric relationship. To introduce the combustion air from the air swirl flow chamber (14) into the guide pipe (58), an air path (62) is formed around the ignition plug (60). A plurality of vaporizing holes (64) are formed in the guide pipe (58) so as to allow passage of the vaporized fuel from the fuel absorber (32). Ignition flame blow holes (66) are formed in the guide pipe (58) to provide a communication with the combustion chamber (46).
<IMAGE>

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IPC 8 full level
F23D 3/40 (2006.01); **F23D 11/44** (2006.01)

CPC (source: EP)
F23D 3/40 (2013.01); **F23D 11/441** (2013.01); **F23D 2207/00** (2013.01)

Citation (search report)
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EP 0594988 A1 19940504; **EP 0594988 B1 19980513**; DE 69318509 D1 19980618; DE 69318509 T2 19990121; JP 2520078 B2 19960731; JP H074618 A 19950110

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