

Title (en)
BURNER FOR BURNING VARIOUS FUELS

Publication
EP 0062228 B1 19850626 (DE)

Application
EP 82102393 A 19820323

Priority
US 25183781 A 19810408

Abstract (en)
[origin: EP0062228A1] 1. Burner with a burner port (50) which is arranged in the wall (12) of a combustion chamber, and with a burner wall (84) which is arranged at a distance from the combustion chamber wall (12) where between the combustion chamber wall (12) and the burner wall (84) an air box (42) is formed in which a first tube (82) is at least partly arranged the outlet end of which is provided at the burner port (50) where a first and a second guide (102, 108) are arranged to form an internal and an external ring duct (72, 74) inside the air box (42) which show separate dampers (112, 120) and a number of swirl blades (128) in the inside ring duct (72) and where a pulverized fuel and air duct (64) is connected with the burner characterized by the fact that a second tube (80) is arranged concentrically between the first tube (82) and the first guide (102), that at least part of the second tube (80) is arranged inside the air box (42) and the outlet end of the second tube (80) at the burner port (50), that the inlet end of the second tube (80) is connected with the pulverized fuel and air duct (64), that an air guide duct (65, 71) is provided between the air box (42) and the inlet end of the first tube (82), and that 5 to 10% of the stoichiometric air flow is admitted to the first tube (82), 15 to 30% to the second tube (80), 22 to 35 the internal ring duct (72), and the remaining air flow required for complete combustion to the external ring duct (74).

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F23D 17/00

IPC 8 full level
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EP0421903A3; CN108916876A; GB2204673A; GB2204673B

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