

Title (en)
Gas burner.

Title (de)
Gasbrenner.

Title (fr)
Brûleur à gaz.

Publication
EP 0089924 A1 19830928 (EN)

Application
EP 83810105 A 19830315

Priority
CH 171282 A 19820319

Abstract (en)
1. A gas burner comprising a premixer space (25) having inlets for air and gas connected respectively to a fan (17) and to a pressurized gaseous fuel source, and an outlet opening into a distributor space (27) one wall of which is formed by a distribution grid (28) for communication with a combustion zone, characterized in that said spaces are contained in a housing (18) having a symmetry axis and divided in a plane substantially parallel to said grid by a partition (26) delimiting said spaces (25, 27) and forming at least one communication passage therebetween extending at its periphery, said gas inlet (20) comprising nozzles (21) distributed about the symmetry axis of said housing (18) for injecting the gas in a general direction perpendicular to said axis, said nozzles (21) opening into an air inlet chamber (24) arranged within said premixer space (25) at a centered position with respect to said axis, at least one opening extending through the portion of the wall of said housing adjacent said chamber (24) for communication thereof with the atmosphere, at least one partition (23) coaxial with said symmetry axis and substantially parallel to the side wall of said housing (18) separating said chamber (24) from said premixer space (25) and being formed with distribution openings (22) extending therethrough at centered positions with the axes of respective ones of said nozzles (21).

Abstract (fr)
Ce brûleur à tirage forcé est destiné à être associé à un ventilateur et se présente sous la forme générale d'un boîtier parallélépipédique (1) divisé en deux enceintes de prémélange (2), respectivement de distribution (3), par une cloison (4) dont les rebords (4a) délimitent la section d'entrée de l'enceinte (3). Une grille perforée (5) fait communiquer cette enceinte de distribution avec une zone de combustion du mélange air-gaz de combustion. Un canal (7) ouvert à l'atmosphère s'étend longitudinalement à l'axe du boîtier (1), ses parois latérales (8, 9) sont percées d'ouvertures (12) d'admission dans l'enceinte de prémélange (2) disposées chacune vis-à-vis d'une buse d'injection (11) traversant un tuyau d'alimentation (10) en gaz de combustion.

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F23D 13/00

IPC 8 full level
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CPC (source: EP)
F23D 14/30 (2013.01); **F23D 14/36** (2013.01)

Citation (search report)
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