

Title (en)  
Perfected burner for heat generator

Title (de)  
Verbesserter Brenner für Wärmegenerator

Title (fr)  
Brûleur amélioré pour générateur de chaleur

Publication  
**EP 0797047 B1 20010919 (EN)**

Application  
**EP 97104380 A 19970314**

Priority  
IT UD960036 A 19960322

Abstract (en)  
[origin: EP0797047A1] Perfected burner for heat generators, which can be used in cooperation with heating plants such as boilers, hot air generators etc. for heating rooms in general, the burner comprising at least a containing structure (11) associated with the outer wall of a combustion chamber (26) and defining inside at least the seating for a flame pipe (17) and a ventilator unit (13), the flame pipe (17) containing inside itself a fuel feed pipe (22) and having at its periphery a slit (33) for air to pass through associated with the ventilator unit (13), the ventilator unit (13) having an air propellor (40) carried by an actuating motor (37) supported by a mounting flange (53), the slit (33) cooperating with a shutter (34) element, the fuel feed pipe (22) having at its end a nozzle-type outlet (30) cooperating with a turbulence disk (31), there also being present an intake opening (15), the containing structure (11) defining, at the side of the air propellor, an area (48) through which the air passes and which becomes progressively wider until it reaches a width at least 30% of the diameter of the air propellor (40) in the area substantially diametric to its initial part, and around the flame pipe (17) an annular recirculating conduit (45) communicating at its inlet with this area (48) and the air propellor (40) defining inside itself a housing area for at least part of the motor (37), between the motor (37) and the inner diameter of the air propellor (40) there being longitudinal fins (41,42) substantially diametrically arranged and defining, together with the air propellor (40), a lower intake area (44) communicating with the opening (15) and a higher intake area (43) communicating with the annular recirculating conduit (45), between the air propellor (40) and the inner side of the containing structure (11) on the side of the flange (53) there being an annular space (54) to convey the air. <IMAGE>

IPC 1-7  
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IPC 8 full level  
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CPC (source: EP)  
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