

Title (en)  
FUEL-FIRED HEAT PRODUCER

Publication  
**EP 0356690 B1 19930519 (DE)**

Application  
**EP 89113385 A 19890721**

Priority  
DE 3829664 A 19880901

Abstract (en)  
[origin: EP0356690A1] A heat producer has, in addition to a main pipe (21) which guides a fuel/air mixture of controlled composition, a secondary pipe (22), which can be switched on and off alternatively, with an associated fuel pipe (23). The variation range from minimum to maximum heating output, which is limited by the performance in service of the burner, is to be increased. The outlet pipe (5) and the inlet pipe (2) of the heat producer are interconnected by means of a return pipe (71) which is provided with a valve (72) and via which a flow of exhaust gas, which decreases with an increase in the size of the flow of fuel/air mixture which is supplied to the burner (1), can be added to the latter flow. As a result of this, the minimum output of the burner (1) is greatly reduced because by adding the exhaust air the outflow rate at the burner is increased and at the same time the ignition rate of the fuel/air mixture is reduced, so that stable relationships are maintained at the burner even with a very small flame. <IMAGE>

IPC 1-7  
**F23N 1/04**

IPC 8 full level  
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CPC (source: EP)  
**F23N 1/045** (2013.01); **F23N 5/18** (2013.01); **F23N 2225/08** (2020.01); **F23N 2225/20** (2020.01); **F23N 2233/04** (2020.01)

Cited by  
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