

Title (en)  
METHOD AND APPARATUS FOR THE COMBUSTION OF GASEOUS AND LIQUID FUELS GENERATING A LOW EMISSION OF NOXIOUS PRODUCTS

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Application  
**EP 91116528 A 19910927**

Priority  
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Abstract (en)  
[origin: EP0483520A2] Method and apparatus for the combustion of gaseous and liquid fuels generating a low emission of noxious products together with minimum discharge of particulate combustion materials. The apparatus comprises a number of pipes of decreasing diameter and surrounding vent devices for concentrating the flame, with feeding of the recirculation air together with the combustion products. The pipes are arranged telescopically around the flame outlet or fuel nozzle, the pipe diameters decreasing in the direction of the flame outlet. Rotating vent devices in the pipes can be arranged in various ways to provide the recirculation air with a spin and acceleration. The flame is thus sharply concentrated and the air is rapidly recycled in the combustion chamber. The invention increases the burner output, reduces the combustion temperature and reduces the NOx emissions by up to 50% and the carbons by up to 100%.

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Citation (search report)  
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