

Title (en)  
Improvements relating to gas burners.

Title (de)  
Gasbrenner.

Title (fr)  
Brûleur à gaz.

Publication  
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Application  
**EP 90305386 A 19900518**

Priority  
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Abstract (en)  
[origin: EP0400845A1] The present specification discloses a gas burner arrangement for use in a solid fuel effect gas fire, the burner arrangement comprising a gas burner (3) located in a combustion chamber (5) directly under a simulated solid fuel element bed (7). The gas burner (3) is arranged to burn gas which has been aerated with a primary quantity of air which is insufficient for complete combustion. Inlets (11) are provided in the combustion chamber (5) to allow a secondary quantity of air to be drawn into the combustion chamber (5), the secondary quantity of air being insufficient for complete combustion but sufficient to produce flames within the combustion chamber (5), which are hot enough to heat the simulated solid fuel element bed (7) to a temperature at which sooting by the flames impinging in the bed (7), is minimised. Thus as the combusting gases pass through apertures (13) in the simulated solid fuel effect bed (7), they mix with the ambient air to complete combustion in the free air above the simulated solid fuel effect bed (7). This obviates the need for a chimney to carry away partially burnt gases.

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