

Title (en)  
A burner assembly

Title (de)  
Brenneranordnung

Title (fr)  
Ensemble de brûleur

Publication  
**EP 2098780 A1 20090909 (EN)**

Application  
**EP 08102279 A 20080304**

Priority  
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Abstract (en)  
An enclosed water heater boiler (1) for burning solid fuel is disclosed. The burner assembly (10) has two burners namely a granular fuel burner (11) and a fuel fired burner (12). The granular fuel burner (11) has a brazier fed with the granular fuel and the fluid fired burner (12) being mounted remote from the brazier such that the flame generated by the fluid fired burner (12) is directed beside and substantially away from the brazier. A flame transfer device (15) is provided to direct some of the flame generated by the fluid fired burner (12) as a concentrated jet against portion of the granulated fuel (25) to ignite the granular fuel allowing for extremely efficient ignition and a substantial reduction in CO generation. This burner assembly provides additional heat from boilers as required over short periods of time.

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Citation (applicant)  
• JP 2005009768 A 20050113 - YAMAMOTO & CO LTD  
• JP S588907 A 19830119 - GOTOU SHINSAKU  
• GB 502192 A 19390314 - ALEXANDER MACDONALD ROUSE  
• GB 278554 A 19271013 - CAMELON IRON COMPANY LTD, et al  
• GB 281461 A 19271208 - EDGAR RUSSELL

Citation (search report)  
• [Y] CA 1168516 A 19840605 - ALICE DESJARDINS LAMONTAGNE  
• [Y] FR 2733303 A1 19961025 - GAZ DE FRANCE [FR]  
• [E] GB 2446954 A 20080827 - ALLEY ENTERPRISES LTD [IE]  
• [A] US 1842227 A 19320119 - ELIAS WIRTH  
• [A] JP S58184420 A 19831027 - HITACHI SHIPBUILDING ENG CO  
• [A] DE 202006002349 U1 20060831 - DUSEL ANTON [DE]

Cited by  
CN102012018A; CN107477567A; EP2940383A1; GB2525629B; US10036554B2

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