

Title (en)
Method of combustion and burners.

Title (de)
Verbrennungsverfahren und Brenner.

Title (fr)
Procédé de combustion et brûleurs.

Publication
EP 0132927 A1 19850213 (EN)

Application
EP 84303618 A 19840529

Priority
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Abstract (en)
A composition comprising a particulate fuel typically pulverised coal, carried in water is formed such that it is readily able to be pumped without adding emulsifiers or lubricants to the composition. The composition typically includes at least 25% water and preferably 30 to 50% water. The composition is pumped to burner 2 and is atomised therein, typically by means of a stream of oxygen supplied through a passage 34 in the nozzle 6 of the burner. This oxygen is taken from that supplied to passage 16 for supporting combustion of the particulate fuel. A relatively short and intense flame can be produced at relatively low coal concentrations in the composition such that the need to use expensive emulsifiers etc. is avoided.

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F23K 1/02; **F23D 1/00**

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Citation (search report)
• GB 1096551 A 19671229 - FOSTER WHEELER CORP
• EP 0072630 A1 19830223 - OSAKA GAS CO LTD [JP]
• GB 1223369 A 19710224 - SIEMENS AG [DE]
• GB 2099132 A 19821201 - BOC LTD
• DE 1279883 B 19681010 - COMBUSTION ENG
• DE 2042030 B2 19740718

Cited by
EP0153760A3; EP0145389A3

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