

Title (en)  
AQUEOUS COMBUSTION CATALYSTS AND FUELS

Publication  
**EP 0368834 B1 19930107 (DE)**

Application  
**EP 89890256 A 19890929**

Priority  
AT 244188 A 19881003

Abstract (en)  
[origin: EP0368834A1] The invention relates to an aqueous catalyst solution for the improved combustion of materials containing carbon and/or hydrocarbon, such as fuel oils, fuel gases and solid fuels, and/or for the removal of deposits of soot or tar on surfaces of the combustion chamber, and it is characterised above all in that the aqueous catalyst solution has a pH of at least 7 and contains, in a catalytically active quantity, tetravalent cerium (Ce<4><+>) and alkali metal, alkali earth metal and/or magnesium compounds which, after combustion or thermal decomposition, show an alkaline reaction, and complexing agents for this Ce<4><+>. The invention also relates to a liquid or solid fuel, in particular fuel oil or coal, which is characterised in that it contains the aqueous catalyst solution in such a quantity that the cerium<4><+> content is between 1 and 100 ppm, preferably about 35 ppm, relative to the fuel quantity.

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IPC 8 full level  
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Cited by  
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