



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
27.09.2000 Bulletin 2000/39

(51) Int Cl.7: **F24C 14/02**

(43) Date of publication A2:
18.11.1998 Bulletin 1998/47

(21) Application number: **98303828.2**

(22) Date of filing: **15.05.1998**

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE
 Designated Extension States:
AL LT LV MK RO SI

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(30) Priority: **16.05.1997 GB 9709974**

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(54) **Pyrolytic self-cleaning ovens**

(57) A pyrolytic self-cleaning oven has a cavity 2 heated by a grill element 4 during a self-cleaning pyrolytic operation, the fumes emitted passing through a porous plug bearing an oxidation catalyst 11 to remove smoke before the gases are vented at outlet 9. The cycling of the element 4 is controlled by an electronic controller 13 which receives a signal from a temperature sensor 15 on the catalytic plug. Thus, when the oven temperature initially rises and volatile substances are vaporised, resulting in an exothermic reaction at the cat-

alyst, the element 4 is switched off. Only when a substantial amount of the volatile soil has been evaporated will the temperature at the oxidation catalyst fall causing the control means 13 to switch the element 4 back on. In this way, the self-cleaning operation is controlled by the temperature of the oxidation catalyst, and the cleaning operation is terminated with reference to either a fixed temperature in the oven having been reached or a fixed temperature differential between the catalyst temperature and the oven temperature having been achieved.

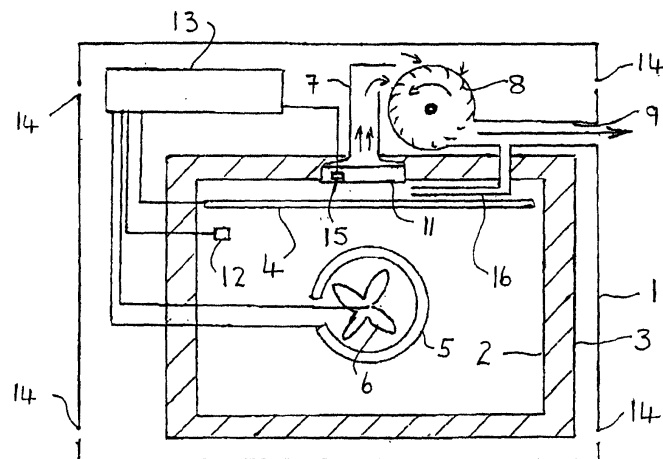


FIGURE 1



European Patent
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EUROPEAN SEARCH REPORT

Application Number
EP 98 30 3828

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The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
MUNICH		31 July 2000	Filtri, G
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**ANNEX TO THE EUROPEAN SEARCH REPORT
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