

(12)

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EP 0 892 586 A3

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 12.05.1999 Bulletin 1999/19 (51) Int. Cl.⁶: **H05B 6/64**, H05B 6/80

(43) Date of publication A2: 20.01.1999 Bulletin 1999/03

(21) Application number: 97308663.0

(22) Date of filing: 29.10.1997

(84) Designated Contracting States:

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC

Designated Extension States:

AL LT LV RO SI

(30) Priority: 13.06.1997 GB 9712453

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(54)Microwave furnace for high temperature melting, decomposition or reduction to ash

An apparatus for melt, decompose or reduce materials to ashes comprising a microwave source, a metallic chamber which retains the microwaves, having a vented door and a thermal insulating structure inside which there is a cavity where the samples are placed and where there is a microwave absorbing material able to be heated up to temperatures in excess of 1200 °C. The thermal insulating structure having three exchangeble front parts to suit different operation conditions. In particualr it is possible to perform the thermal treatment having a direct look to the sample without interrupting the treatment itself nor the microwave power.

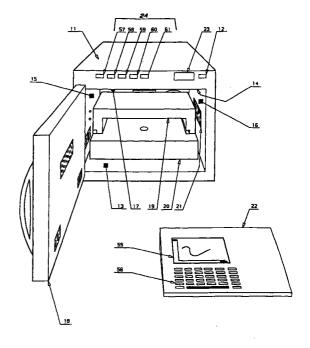


FIG. 1



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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

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