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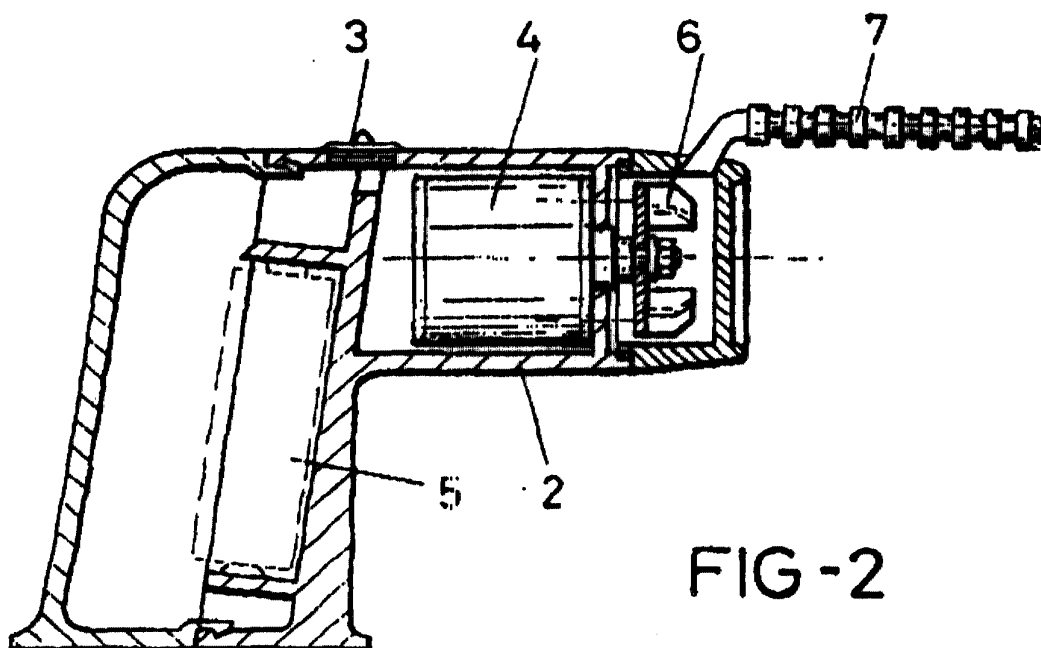
(54) **Air pump for the acceleration of the combustion applicable for recuperators, fire places and alike**

(57) This invention consists of a portable air pump that conveniently positioned close to a fire place will accelerate the rate of combustion.

With this device there is no longer a need to take care of the fireplace, especially during the first stage of the combustion process, with the use of certain traditional elements such as a bellow; rather, this battery run device allows for an air flow to be directed to the char-

coal where the combustion is taking place, in a continuous and uniform manner, thus allowing for the flame to become stronger. This process may take a few minutes (depending on the quality of the wood) until the flame is so strong that the device may be switched off.

Evidently, this process may be repeated when and as necessary, especially if the flame is becoming weaker or if more wood is being added to the fire place.



**FIG-2**

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# EUROPEAN SEARCH REPORT

Application Number  
EP 99 50 0229

| DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                     |                                                                                                               |                                                                                                                                                                                                                                                                              |                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Category                                                                                                                                                                                                                | Citation of document with indication, where appropriate, of relevant passages                                 | Relevant to claim                                                                                                                                                                                                                                                            | CLASSIFICATION OF THE APPLICATION (Int.Cl.7) |
| X                                                                                                                                                                                                                       | US 4 516 561 A (STAWSKI KARL-HEINZ ET AL)<br>14 May 1985 (1985-05-14)<br>* the whole document *               | 1, 3, 4                                                                                                                                                                                                                                                                      | F24B15/00<br>F24B1/19                        |
| Y                                                                                                                                                                                                                       | ---                                                                                                           | 2                                                                                                                                                                                                                                                                            |                                              |
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|                                                                                                                                                                                                                         |                                                                                                               |                                                                                                                                                                                                                                                                              | F24B<br>F23Q                                 |
| The present search report has been drawn up for all claims                                                                                                                                                              |                                                                                                               |                                                                                                                                                                                                                                                                              |                                              |
| Place of search<br><b>THE HAGUE</b>                                                                                                                                                                                     |                                                                                                               | Date of completion of the search<br><b>12 October 2001</b>                                                                                                                                                                                                                   | Examiner<br><b>Vanheusden, J</b>             |
| CATEGORY OF CITED DOCUMENTS                                                                                                                                                                                             |                                                                                                               | T : theory or principle underlying the invention<br>E : earlier patent document, but published on, or after the filing date<br>D : document cited in the application<br>L : document cited for other reasons<br>& : member of the same patent family, corresponding document |                                              |
| X : particularly relevant if taken alone<br>Y : particularly relevant if combined with another document of the same category<br>A : technological background<br>O : non-written disclosure<br>P : intermediate document |                                                                                                               |                                                                                                                                                                                                                                                                              |                                              |

EPO FORM 1503 03 82 (P04C01)

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

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
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12-10-2001

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82