If Convention application insert "Convention"

**AUSTRALIA**

80245/82 (b) PATENT (a) CONVENTION

**APPLICATION FOR A STANDARD/PRIORITY PATENT**

We (c) ATLAS MAJESTIC INDUSTRIES LIMITED

of (d) 11 Albion Road, Otahuhu, Auckland, NEW ZEALAND

hereby apply for the grant of a (e) Standard/Priority Patent for an invention entitled

(f) "IMPROVEMENTS IN OR RELATING TO COOKING RANGES"

which is described in the accompanying (g) complete specification.

(Note: The following applies only to Convention applications)

Details of basic application(s)

<table>
<thead>
<tr>
<th>Application No.</th>
<th>Country</th>
<th>Filing Date</th>
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<td>196225</td>
<td>New Zealand</td>
<td>10 February, 1981</td>
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</table>

Address for Service:

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Dated (i) 5 February, 1982

(ii) PHILLIPS ORMONDE & FITZPATRICK
Attorneys for: ATLAS MAJESTIC INDUSTRIES LIMITED

Note: No legalization or other witness required.
PATENTS ACT 1952-1973
DECLARATION IN SUPPORT OF CONVENTION OR NON-CONVENTION APPLICATION FOR A PATENT OR PATENT OF ADDITION

In support of the Application made for a patent or patent of addition for an invention entitled:
IMPROVEMENTS IN OR RELATING TO COOKING RANGES

1. Brian Thomas
We, 136 Sutherlands Road, Halswell
Christchurch 3, New Zealand

EATHORNE of

80245/82

do solemnly and sincerely declare as follows:

1. (a) I am the applicant for the patent
or (b) I am authorized by

ATLAS MAJESTIC INDUSTRIES LIMITED

the applicant for the patent to make this declaration on its behalf.

2. (a) I am the actual inventor of the invention
or (b) FRANCIS LEONARD SMITH a New Zealand citizen of
60 Buckleys Road, Christchurch 6, New Zealand

is the actual inventor of the invention and the facts upon which the applicant is entitled to make the application are as follows:

by virtue of a Deed of Assignment dated the 28th January 1981.

3. The basic application as defined by Section 141 of the Act was made in NEW ZEALAND on the 10 February 1981 by ATLAS MAJESTIC INDUSTRIES LIMITED

4. The basic application referred to in paragraph 3 of this Declaration was the first application made in a Convention country in respect of the invention the subject of the application.

Declared at CHRISTCHURCH this 1st day of February 1982

______________________________
Signature of declarant(s) (no attestation required)

Note: Initial all alterations.

One preferred form of invention will now be described
1. A cooking range having a top hob with a back upstand hook means associated with the top edge of said upstand a back control panel in the range including transverse lip means said transverse lip means in use being engaged by the hook means to provide a pivotal connection between said hob and said back control panel with said pivotal connection allowing the hob in use to be moved from its normal horizontal position to a raised position for cleaning or maintenance.
Complete Specification for the invention entitled:

"IMPROVEMENTS IN OR RELATING TO COOKING RANGES"

The following statement is a full description of this invention, including the best method of performing it known to applicant(s):
Improvements in or relating to cooking ranges.

This invention relates to cooking ranges and is particularly concerned with the mounting of the hob or top of the range to allow for pivotal movement for ease of cleaning. Modern electric cooking ranges have the cooking hob with an upswept back presenting clean aesthetic lines minimising dirt traps. The upswept back of the hob is associated with the back panel of the range in which are normally located the electrical control equipment for the range.

It is known to provide a pivotal connection between the upswept hob and the back or control panel of the range to allow the hob to be raised for cleaning. Present invention is concerned with a particular type of pivotal connection that has pleasing aesthetic characteristic and at the same time in the preferred embodiment operates as a vapour trap restricting steam and other cooking vapours passing into the operating components housed in the control panel.

Accordingly the invention may broadly be said to consist in a cooking range having a top hob with a back upstand a back control panel in the range including transverse lip means said transverse lip means in use being engaged by the hook means to provide a pivotal connection between said back control panel with said pivotal connection allowing the hob in use to be moved from its normal horizontal position to a raised position for cleaning or maintenance.
One preferred form of invention will now be described with reference to the accompanying drawings in which

Figure 1 is a partly diagrammatic view through the section of the range depicting the connection between the hob and central panel using the present invention.

Figure 2 is an enlarged detail of the connection between the hook and upturned lip demonstrating the range of pivotal movement.

Figure 3 is an elevation of the hook.

Figure 4 is a plan view of the hook.

Figure 5 is a sectional view through one embodiment of the hook and

Figure 6 is a sectional view through an alternate embodiment of the hook.

The electric cooking range 1 has a chassis 2 constructed in the conventional manner with a control panel 3 suitably supported the chassis and rising above the cooking top level of the range. A hob 4 with the cooking elements incorporated therein is supported in the chassis and the hob has an upturned rear section 5 designed aesthetically to fit the lower section of the back control panel 3. In the drawing the hob 4 is shown in full outline in the normal position in use and in the dotted outline in the elevated position for cleaning.

This pivotal movement is effected by virtue of a special pivotal connection according to the present invention.
Incorporated in the control panel 3 is a trim 6 rearwardly directed and inclined downwardly slightly as is illustrated in Figure 1. The end of this trim 6 is upturned to provide a lip 7. In the preferred embodiment the trim extends transversely across substantially the whole width of the hob and is supported appropriately to carry the weight of the hob in the elevated position.

On the top 8 of the back 5 is mounted a hook 9 the hook has a base section 10 with mounting apertures 11 preferably elongated apertures allowing for adjustable mounting of the hook. These are illustrated in Figure 4. The hook means is a substantially channel shaped hook 12 of which in one embodiment as illustrated in Figure 5 can have a right angle channel or in another embodiment illustrated in Figure 6 can have the outer arm 13 inclined inwardly providing the hook with a narrower entrance than base. The hook also preferably extends substantially continuously across the width of the hob and when engaged with the lip forms a pivotal connection the movement of which is illustrated in more detail in Figure 2.

The hook in Figure 2 is illustrated in three positions. The position shown by the hook 14 is that which would normally apply when the hob was correctly located on the chassis and the hinge was at rest. The position illustrated by hook 15 demonstrates the operation of the pivotal connection when the hob is raised normally for cleaning purposes.
The position demonstrated by the hook 16 shows the hob raised to the maximum height which may be required for servicing or other purposes.

It will be appreciated that with the present invention a comparatively wide pivotal movement is possible but in addition to the pivotal movement being achieved using an aesthetically pleasing and concealed pivotal connection it is also a characteristic of the present invention that the pivotal connection acts as a vapour trap preventing steam or other cooking vapours easy access to the control panel of the range in which are normally located control equipment used to control the electric cooking range. This obviously has an advantage in that it prevents corrosive material rising into this section of the range. It will be appreciated of course that the pivotal principle of the present invention may be applied without necessarily using the continuous sections of both the lip and hook which is required to achieve the advantage as just as above discussed.

The present invention provides for a pivotal connection between the hob and the back control panel. The pivot point essentially is at the junction between the base of the trim the upturned lip and this position must be selected so that the hob can be raised without fouling the chassis or any other part of the range. This can be conveniently achieved by locating the pivotal connection as illustrated in the drawings. As was previously mentioned there is some adjust-
ment as a consequence of the fixing of the hook onto the back of the top of the hob upstand. Also the hook pivot may easily be disengaged to enable the hob to be removed after suitable disconnection of electrical leads or for the hob to be brought forward for easier maintenance with the electrical connection still in place.

The present invention thereby forms a pivotal connection between the control panel of the range and the hob which is aesthetically pleasing functional and has the additional advantage in the preferred form of operating as a vapour trap restricting the movement of cooking vapours into the back panel of the range.
CLAIMS
The claims defining the invention are as follows:

1. A cooking range having a top hob with a back upstand hook means associated with the top edge of said upstand a back control panel in the range including transverse lip means said transverse lip means in use being engaged by the hook means to provide a pivotal connection between said hob and said back control panel with said pivotal connection allowing the hob in use to be moved from its normal horizontal position to a raised position for cleaning or maintenance.

2. A cooking range as claimed in claim 1 wherein the transverse lip means comprises a continuous lip extending over substantially the whole width of the hob and a continuous hook means engaged therewith so that in addition to providing pivotal connection a vapour trap is formed restricting access of steam of other cooking vapours to the control equipment housed in the back panel of the range.

3. A cooking range as claimed in claim 1 or claim 2 wherein the line of the back control panel incorporates a rearwardly directed trim at its rear inner end an upturned lip providing the transverse lip means with the junction between the lip and the face of the trim essentially at the pivot point required for the hob.

4. A cooking range as claimed in any one of the preceding claims wherein the upstand of the hob is inclined rearwardly and has a top flange to which can be attached the hook.
member said hook member in use being directed forwardly so that the hook will engage over the transverse lip providing a concealed pivotal connection for the hob relative to the back panel.

5. The cooking range as claimed in claim 4 wherein the hook means comprises a mounting flange with mounting apertures formed therein and a substantially channel shaped hook integrally formed with the end of said mounting flange.

6. The cooking range as claimed in claim 5 wherein the outer free wall of the channel is inclined inwardly providing an entrance to the inverted channel which is narrower than the base.

7. A cooking range when constructed arranged in operable substantially is herein described with reference to the accompanying drawings.

DATED: 5 February, 1982

PHILLIPS ORMONDE & FITZPATRICK
Attorneys for:
ATLAS MAJESTIC INDUSTRIES LIMITED

[Signature]
DRAWINGS