APPLICATION FOR A STANDARD PATENT

of 32b Barton Street, Chatswood, N.S.W., 2067,

hereby apply for the grant of a Standard Patent for an invention entitled "Improvement in Purification units", which is described in the accompanying complete specification.

For a Convention application - details of basic application(s) -

<table>
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<th>NUMBER</th>
<th>COUNTRY</th>
<th>DATE OF APPLICATION</th>
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For an application made by virtue of section 51 -

Original Application No. by

I request that the Patent may be granted as a Patent of Addition to Patent No. in the name of

I request that the term of the Patent of Addition be the same as that for the main invention or so much of the term of the patent for the main invention as is unexpired.

My address for service is

Dated this day of , 19

(To be completed where application is made by a person other than the applicant for, or the patentee under, the patent for the main invention.)

applicant for Application No. the patentee of Patent No. hereby consent to this application.

Dated this day of , 19

To:
THE COMMISSIONER OF PATENTS

This form must be accompanied by either a provisional specification (Form 9 and true copy) or by a complete specification (Form 10 and true copy).
DECLARATION IN SUPPORT OF AN APPLICATION FOR A PATENT

In support of the Application made by

for a patent for an invention entitled

I, [Name and Address],
do solemnly and sincerely declare as follows:

1. I am the applicant for the patent.
   (or, in the case of an application by a body corporate)
   1. I am authorized by [Name and Address of Applicant] to make this declaration on its behalf.

2. I am the actual inventor of the invention.
   (or, where a person other than the inventor is the applicant)
   

Declared at [City] this [Day] day of [Month], 19[Year].

TO:

THE COMMISSIONER OF PATENTS.

[Signature]

(Imp important - Cross out inapplicable words in the above Form.)
This invention relates to a water purification unit in the form of a filter fitted to a normal cold water system.

Claim 1. A water purification unit in the form of a filter fitted to a normal cold water system which through layers of open cell form, activated carbon and a mixed bed deironising resin removes course and fine sediment, odours, tastes carbons and flouride.
TO BE COMPLETED BY APPLICANT

Name of Applicant: AUSTRALIAN WATER PURIFICATION PTY.LTD.

Address of Applicant: 32b Bertram Street, Chatswood, N.S.W. 2067.

Actual Inventor: Geoffrey Smart

Address for Service: 32b Bertram Street, Chatswood, N.S.W. 2067.

Complete Specification for the invention entitled: Improvements in Water Purification Units.

The following statement is a full description of this invention, including the best method of performing it known to me:—

* Note: The description is to be typed in double spacing, pica type face, in an area not exceeding 250 mm in depth and 160 mm in width, on tough white paper of good quality and it is to be inserted inside this form.
This invention relates to certain improvements in water purification units.

It has been found in practice that there is a need for more efficient water purification units which are compact and which can be fitted in a household kitchen and not detract from its appearance and also those which can be fitted into the existing plumbing system.

The objects of this invention are to provide a water purification unit which removes dirt, taste, odour and salts, which is designed to be fitted directly into the cold water line and some which can be easily fitted by a plumber and simple to operate.

According to the invention there is provided a container in which the filter is housed, a lid and the necessary pipes passing through the top of the unit which are connected to the cold water system and a spout, the principal feature of this invention being the filter containing open cell foam, activated carbon and a mixed bed of deironising resin.

A particular embodiment of the invention will now be described with reference to the accompanying drawings in which:-

Figure 1. is the housing of the free standing unit
Figure 2. is the housing of an additive unit
Figure 4 is a vertical section of the filter used in the free standing unit, embodying the improvements.
Figures 5 and 6 respectively show top and bottom views of the filter unit
Figure 6 shows the smaller additive filter unit and
Figure 7 shows the top and bottom of this unit.

The filter has a threaded hose or pipe connection 1 in the upper mounting, a layer of open cell foam usually 10mm. in thickness 2, a layer of activated carbon usually 20mm. in thickness 3, another layer of open cell foam 2, a mixed bed of deironising resin 4, another layer of open cell foam usually 10mm. 2, a further layer of activated carbon usually 20mm. 3, and a final layer of open cell foam usually 10mm. 2.

The component parts of the filter constitute the improvements.
The claims defining the invention are as follows:

Claim 1. A water purification unit in the form of a filter fitted to a normal cold water system which through layers of open cell form, activated carbon and a mixed bed deionising resin removes coarse and fine sediment, odours, tastes carbons and fluoride.

Claim 2. In a water purification unit as in Claim 1, but for use as an additive unit to be integrated into existing cold water plumbing systems.

Dated this day of January, 1980.

AUSTRALIAN WATER PURIFICATION PTY LTD.

NAME OF APPLICANT

* Note: If there is insufficient space above to type the statement of claim, do not use this sheet, but use separate sheets of paper beginning with the words "The claims defining the invention are as follows:" and ending with the date and the name of the applicant in block letters.