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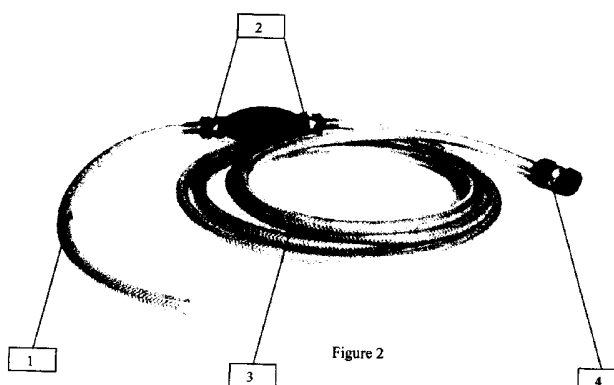
(52) UK CL (Edition X):
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(56) Documents Cited:
GB 2266122 A **GB 2256234 A**
JP 570099386 A **US 6450191 A**
US 0387455 A **US 0383153 A**
DroughtBuster Product Launch Press Information 15
May 2006 on PDF available at
<http://www.droughtbuster.co.uk/press.htm> .

(58) Field of Search:
INT CL **F04B, F04F**
Other: **WPI, EPODOC, TXTUS0, TXTUS1, TXTUS2,**
TXTUS3, TXTEP1, TXTGB1, TXTWO1, TXTAU1,
GOOGLE

(54) Abstract Title: **Hand primed siphon pump and hose for grey water reuse**

(57) A grey water, e.g. bathwater, reuse pump comprises a bulb connected to a three metre outlet hose 3 and a short inlet hose 1. The outlet hose has a universal hose connector 4 for attachment to a garden hose. The bulb is squeezed to start the siphon and requires about 5 squeezes. The inlet hose may be placed in a bath with the bulb floating on the water surface and the outlet hose going through the window to a water butt or directly to the garden. May be easily stored in a bathroom.



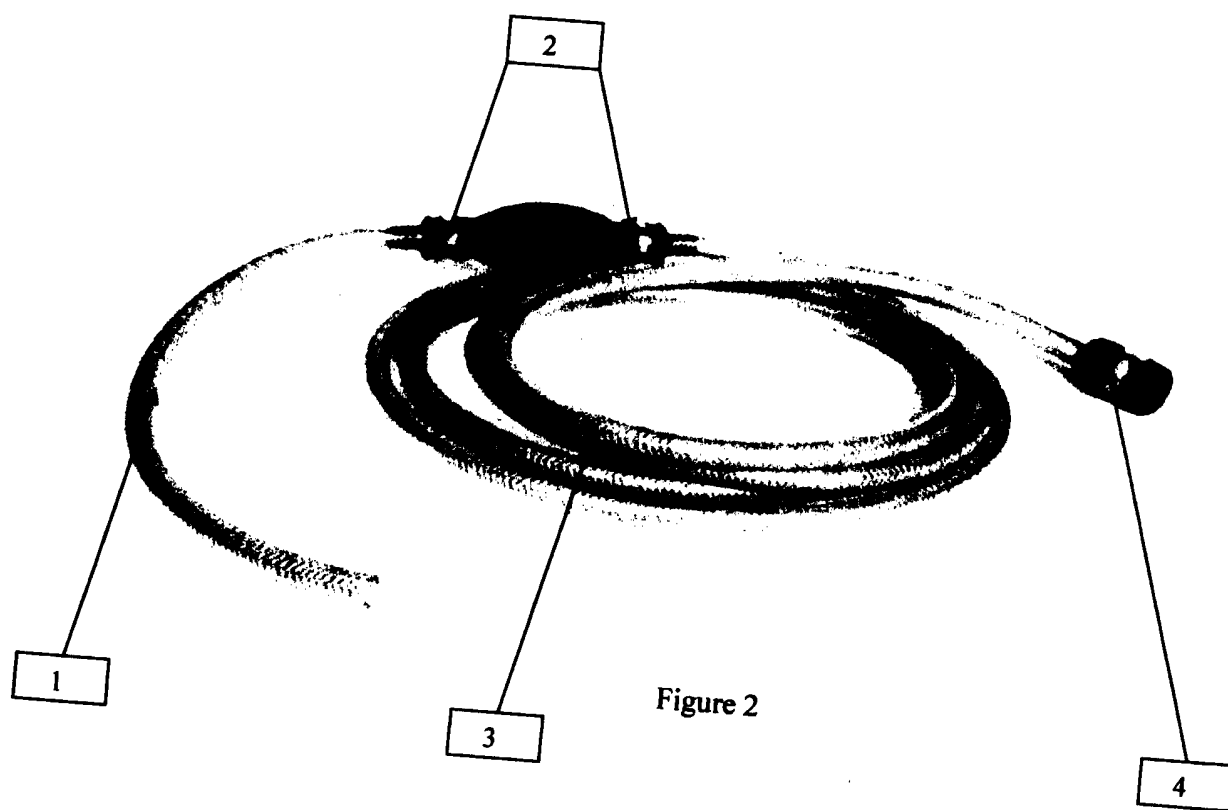
The claims were filed later than the filing date but within the period prescribed by Rule 25(1) of the Patents Rules 1995.

This print takes account of replacement documents submitted after the date of filing to enable the application to comply with the formal requirements of the Patents Rules 1995

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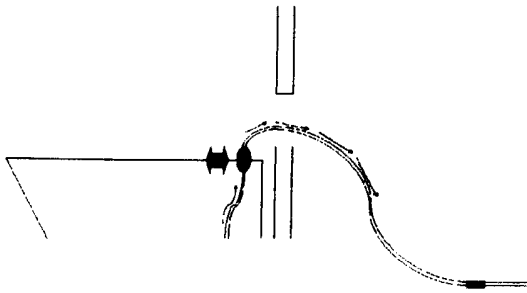
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Illustration



This illustration shows the end of the hose in a bath, with the siphon pump floating on the surface, attached to a 3 meter 3/8" hose, going through a window with a universal connector - 3/8" to 1/2" - at the end connected to garden hose.

Siphon Pump and Hose fitted with universal connector to empty bathwater into garden.

Developed in response to the current hosepipe ban covering 13 million homes in the UK, the invention empties bathwater using a siphon pump into a water butt or directly onto the garden.

At the moment the only option is to use a bucket or attach an appliance into the downpipe to divert the water from the drain.

This product with its length of hose attached to a universal connector, can be easily stored in the bathroom and involves about 5 squeezes of the pump to start the process and then atmospheric pressure takes over, causing the bath to empty itself in minutes.

Claims

Greywater recycling unit

- 1. A greywater recycling unit comprising a short tube for immersion in a standing source of water, a hand operated squeezable bulb incorporating one-way entry and exit valves for drawing water into the unit whilst preventing its return, a long tube and a connector allowing the unit to be extended by attachment to a standard garden hose.**
- 2. A greywater recycling unit which is primed by a hand operated squeezable bulb (Figure 1 (1)) incorporating one-way entry and exit valves for drawing water into the unit whilst preventing its return.**
- 3. A greywater recycling unit which can be extended at will by using the connector (Figure 1 (2)) to attach a standard garden hose.**
- 4. A greywater recycling unit substantially as herein described with reference to the accompanying picture (Figure 2), incorporating a short tube (1) for immersion in a standing source of water; attached to a hand operated squeezable rubber bulb incorporating one-way entry and exit valves for drawing water into the unit whilst preventing its return (2); attached to a long tube (3); fitted with a connector (4) allowing the unit to be extended by attachment to a standard garden hose.**
- 5. A method of re-using greywater from a container sited within a domestic property and elevated from a garden, comprising the steps of inserting the short tube of a recycling unit as claimed in any of the preceding claims into the water supply, connecting the longer tube to a garden hose by means of the universal connector, squeezing the bulb a number of times in order to generate a syphon effect to cause the water to flow out of the container and distributing the water to the garden, a further container or for another use by means of the garden hose.**

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Application No: GB0609664.8

Examiner: James Paddock

Claims searched: 1-5

Date of search: 29 August 2007

Patents Act 1977: Search Report under Section 17

Documents considered to be relevant:

Category	Relevant to claims	Identity of document and passage or figure of particular relevance
X	1-5	GB2256234 A STRICKLAND See the Figures. Bathwater siphon arrangement with bulb pump.
X	1-5	JP57099386 A KUNIYOSHI See the Figures and WPI abstract accession No: 1982-62631E [30]. Bathwater siphon pump with short and long hoses and squeezable bulb.
X	1-5	US6450191 A WELCH See the Figures. Siphon device with short intake and long outlet hoses and bulb pump.
X	1-5	US387455 A SIERSDORFER See the Figures. In-line bulb pump with valves intended for siphoning.
X	1-5	US383153 A SIERSDORFER See the Figures. In-line bulb pump with valves intended for siphoning.
X	1-5	GB2266122 A LAWTON See para 2 of the description. Ball pump in context of siphoning bathwater.
X	1-5	DroughtBuster Product Launch Press Information 15 May 2006 on PDF available at http://www.droughtbuster.co.uk/press.htm . Present product. Note publication date and present priority date.

Categories:

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.

Field of Search:

Search of GB, EP, WO & US patent documents classified in the following areas of the UKC^x :

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Worldwide search of patent documents classified in the following areas of the IPC

F04B; F04F

The following online and other databases have been used in the preparation of this search report

WPI, EPODOC, TXTUS0, TXTUS1, TXTUS2, TXTUS3, TXTEP1, TXTGB1, TXTWO1, TXTAU1, GOOGLE

International Classification:

Subclass	Subgroup	Valid From
F04F	0010/00	01/01/2006