

Intellectual Property Office of New Zealand - Case Details Report

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Patent Number (11): 594197

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Acceptance Date: 15 Oct 2012

Status: Granted

Application type: National Entry PCT

Technology group: Mechanical

Patent Date: 06 Jan 2010

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Under Proceeding: No

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Lapse Date: 06 Jan 2017

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PCT Publication Number: WO/2010/079352

PCT Application Number: PCT/GB2010/050013

Granted as Patent of addition: No

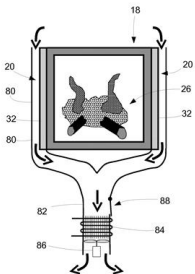
Patent Title: APPARATUS FOR CAPTURING HEAT FROM A STOVE

Declaration: We declare the first and true inventor(s) of the invention disclosed in the complete specification filed with the present application are as listed. If you do not make this declaration you will have to submit a Declaration of Inventorship in the future before your application can be accepted.

We are the applicants for the PCT international application

Abstract: Patent 594197 Disclosed is a stove that incorporates heat capturing apparatus for capturing heat from the Stove for increased efficiency. The heat capturing apparatus comprises an air-water heat exchanger being operative to transfer heat between air on the air side and water flowing in channels in the water side. The heat capturing apparatus includes an air duct through which air heated by the stove can pass, and a control means operable to control the flow of air within the heat capturing apparatus. In a first mode, the control means including a fan, allows air to flow upwards through the air duct to a space surrounding the stove at least partly by natural convection. In a second mode, the fan induces air to flow from the air duct to the air side of the heat exchanger, such that air within the duct in the second mode flows in a direction opposite to that in which it flows in the first mode. The fan is operable to draw air from a space surrounding the stove into the air duct for heating by the stove and then to the heat exchanger. When the fan is not operating, air can be drawn from a space surrounding the stove for heating by the stove, and subsequently returned to the space surrounding the stove by natural convection.

Abstract Drawing:



Patent Specifications:

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APPARATUS FOR CAPTURING HEAT FROM A STOVE	30 Nov 2012	30 Nov 2012	Granted
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International Patent Classification (51): F24B 1/187, F24H 6/00, F24D 11/00, F24B 7/02

Convention Priority:

Country	Priority Date	Priority Number
United Kingdom	19 Mar 2009	0904718.4
United Kingdom	09 Jan 2009	0900259.3

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Type	Description	Journal	Published
Patent Renewal	Patent Renewed for 3 years until 06 Jan 2017 by Simon James Redford	1614	20 Dec 2013
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Patent accepted	Application Accepted	1601	30 Nov 2012
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IP Corrected	Document added		12 Oct 2012
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Edit case details	Patent class added		02 Aug 2012
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Change of Inventor	Inventor changed		21 Jul 2011
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IP Corrected	Contact changed		21 Jul 2011
Edit case details	Patent class added		21 Jul 2011
Application for National Patent under PCT	Filed	1586	26 Aug 2011

Linked Cases: None

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