

AUSTRALIAN PATENT OFFICE
SEARCH REPORT AND ADVISORY OPINION

National application No.
FIJI 747

Furnished for the information of the FIJIAN ADMINSTRATOR-GENERAL

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A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl.⁵ F24H 1/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Period Covered

AU-IPC F24HI/18, 1/24, 1/26, 1/28

(1975 - 1992)

AU Class

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Other EP, WO - IPC F24H 1/ 18

(1980 - 1992)

The search was based on the following search statement:

A stainless steel water heater in which the fire box and flue are surrounded by the water storage tank. The water heater has a heat exchanger for heating other fluids and a perforated plate immediately below the flue

C. DOCUMENTS CONSIDERED TO BE RELEVANT

i) AU 52642/79 A (MILLS) 19 October 1980

ii) AU 68784/80 A (MILLS) 16 May 1982

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Patentability and Novelty according to Australian patent law concepts:

1) The invention defined by the search statement would be considered patentable to the extent that it satisfies Section 18(1)(a) of the Patents Act 1990.

2) The invention defined by the search statement would not be considered novel, as required by Section 18(1)(b)(i) of the Patents Act 1990:

a) 52642/79 discloses a stainless steel water heater (1 of fig 1) with the fire box (4) and flue (6) located internally of the tank (10). A heat exchanger for other liquids is not illustrated but is described as an option at page 2, lines 20-24. A perforated plate (14) is located below, and attached to, the base (8) and lower portion (7) of the flue.

This document fully discloses the invention.

b) 68784/80, by the same applicant, is very similar. The heat exchanger is shown (15 of fig 1). The advance in the art is that, unlike the entirely flat drilled plate at the flue base of 52642/79 and in the drawing of the present invention, the plate of 68784/80 can have either angled longitudinal edges (fig 2) or curved longitudinal edge portions (fig 3). The perforations are by longitudinal slotting rather than drilling.

This document also fully discloses the invention.

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(second sheet)(July1992)