

Title (en)  
ELEMENT OF A FEED-WATER HEATER OF A STEAM BOILER AND FEED-WATER HEATER

Publication  
**EP 0058356 B1 19840613 (FR)**

Application  
**EP 82100845 A 19820205**

Priority  
FR 8102382 A 19810206

Abstract (en)  
[origin: US4433546A] A heater unit for heating water which is supplied to a steam-generating boiler of an electric energy production installation which includes an alternator driven by a turbine having at least one low-pressure body (9) connected by a housing (15), to a steam condenser situated under said low-pressure body, said heater unit comprising a nest of tubes located inside said housing and being supplied with water coming from an extraction circuit for the condenser (14) and the outer surface of the tubes being supplied with steam drawn off from the low-pressure body, the nest of tubes being substantially horizontal and perpendicular to the axis (10) of the turbine, the cross-section of the nest (1) of tubes of said heater unit being narrow and elongate and the length of said cross-section being disposed substantially vertically, the nest of tubes being enclosed in a casing (16) which both channels the steam around the nest of tubes and receives the steam bleed-off pipes (15), wherein the cross-section (7) of said casing has, in the region of the bleed-off steam supply pipes, one of its sides which, going up from the bottom, slopes progressively away going from the corresponding one of the two substantially vertical sides of said narrow elongate cross-section of said nest (1) of tubes and, beyond said region, a cross-section which, while leaving a space for steam to pass, follows the profile of the contour of the cross-section of the nest of tubes, steam being supplied above said casing.

IPC 1-7  
**F22D 1/32**; **F01K 11/02**

IPC 8 full level  
**F01K 11/02** (2006.01); **F22D 1/32** (2006.01)

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