

Title (en)
A HEAT EXCHANGE UNIT

Publication
EP 0040037 B1 19840829 (EN)

Application
EP 81301975 A 19810505

Priority
NZ 19361280 A 19800505

Abstract (en)
[origin: EP0040037A1] A heat exchange unit incorporating an electrically heated boiler (1) mounted within a housing (2), the boiler having extending therethrough at least one air tube (11) arranged so that air can be drawn or blown therethrough to be heated by the boiler before it is passed from the housing through an outlet, the electrically heated boiler having a supply tank (7) connected thereto to maintain a desired water level within the boiler, the boiler having a steam outlet (19) in the upper end thereof through which steam can flow to one or more condensor tubes or coils (21) in which the steam condenses before flowing under gravity back through an inlet (20) to the boiler, the latent heat of evaporation given up by the condensing steam can be collected surrounding the condensor with air or water to be heated. The housing within which the boiler is mounted can have a series of baffles or scoops (14) which direct the flow of drawn or blown air so that it passes through successive levels of air tubes through the boiler before being passed over the boiler and out the outlet in the housing.

IPC 1-7
F24H 6/00; **F24H 3/08**

IPC 8 full level
F28D 21/00 (2006.01); **F24H 3/08** (2006.01); **F24H 6/00** (2006.01)

CPC (source: EP)
F24H 3/081 (2013.01); **F24H 6/00** (2013.01)

Cited by
GB2122737A; CN110926251A; KR101676226B1; EP0867667A3; US6066239A

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0040037 A1 19811118; **EP 0040037 B1 19840829**; AT E9180 T1 19840915; AU 546897 B2 19850926; AU 7015981 A 19811112; DE 3165740 D1 19841004; JP S5737695 A 19820302; NZ 193612 A 19820316; ZA 812963 B 19820428

DOCDB simple family (application)
EP 81301975 A 19810505; AT 81301975 T 19810505; AU 7015981 A 19810505; DE 3165740 T 19810505; JP 6806281 A 19810506; NZ 19361280 A 19800505; ZA 812963 A 19810505