

Title (en)
Stack type evaporator

Title (de)
Stapelverdampfer

Title (fr)
Evaporateur de type empilé

Publication
EP 0563474 B1 19960131 (EN)

Application
EP 92307402 A 19920813

Priority
• JP 8246792 A 19920403
• JP 13115392 A 19920522

Abstract (en)
[origin: EP0563474A1] A stack type evaporator comprises tubular elements (1) each having a plurality of inwardly protruding recessed ribs (7) which extend from an upper header portion (1a) of the element to a lower header portion (1b), with the ribs serving as straight drain canals (7a). A hydrophilic resin coating of a specific composition covers the outer surfaces of the tubular elements (1) and fins (2) each interposed between two adjacent tubular elements. The combination of straight drain canals with the specific hydrophilic resin coating is effective to facilitate the drainage of condensed water so that the waterdrops are perfectly prevented from flying out of the evaporator and that any stinking mold or mildew is not permitted to grow within a reduced amount of remaining adherent water. Also, the hydrophilic coating itself does not emit any unpleasant smell.
<IMAGE>

IPC 1-7
F25B 39/02; **F25B 47/00**

IPC 8 full level
F25B 39/02 (2006.01); **F25B 47/00** (2006.01); **F28D 1/03** (2006.01); **F28F 13/18** (2006.01); **F28F 17/00** (2006.01)

CPC (source: EP)
F25B 39/022 (2013.01); **F25B 47/00** (2013.01); **F28D 1/0333** (2013.01); **F28F 13/18** (2013.01); **F28F 17/005** (2013.01);
F28D 2021/0085 (2013.01); **F28F 2245/02** (2013.01)

Cited by
WO03047893A1; AU732179B2; EP0619468A3; DE10159429A1; US5964282A; GB2347997A; AU737251B2; GB2347997B; DE19882664B4;
US6698509B2; FR2918447A1; EP2012081A1; EP2045559A1; WO2005100901A1; WO9913284A1; WO9913282A1; WO9701656A1;
US6796374B2; US8191872B2; EP2045559B1

Designated contracting state (EPC)
AT CH DE ES FR GB IT LI SE

DOCDB simple family (publication)
EP 0563474 A1 19931006; **EP 0563474 B1 19960131**; AT E133778 T1 19960215; AU 2747692 A 19931007; AU 656429 B2 19950202;
CA 2075686 A1 19931004; CA 2075686 C 20030211; CN 1078340 C 20020123; CN 1080387 A 19940105; DE 69208076 D1 19960314;
DE 69208076 T2 19960704; ES 2083693 T3 19960416

DOCDB simple family (application)
EP 92307402 A 19920813; AT 92307402 T 19920813; AU 2747692 A 19921030; CA 2075686 A 19920810; CN 93104527 A 19930403;
DE 69208076 T 19920813; ES 92307402 T 19920813