

Title (en)

Stack type evaporator.

Title (de)

Stapelverdampfer.

Title (fr)

Evaporateur de type empilé.

Publication

EP 0563474 A1 19931006 (EN)

Application

EP 92307402 A 19920813

Priority

- JP 8246792 A 19920403
- JP 13115392 A 19920522

Abstract (en)

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)

Citation (search report)

- [YD] EP 0415584 A2 19910306 - HONDA MOTOR CO LTD [JP], et al
- [AD] EP 0409130 A1 19910123 - NIPPON DENSO CO [JP], et al
- [Y] DATABASE WPIL Section Ch, Week 9101, Derwent Publications Ltd., London, GB; Class A12, AN 91-002230 & JP-A-2 277 584 (FUJI PHOTO FILM)
- [A] DATABASE WPIL Section Ch, Week 8218, Derwent Publications Ltd., London, GB; Class A07, AN 82-35802E & JP-A-57 018 629 (KEY PHARMACEUTICALS)

Cited by

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

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AT CH DE ES FR GB IT LI SE

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DOCDB simple family (application)

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