

Title (en)

Corrugated fin for evaporator with improved condensate removal

Title (de)

Gewellte Rippe für Verdampfer mit verbesserter Kondensatabführung

Title (fr)

Ailette ondulée pour évaporateur avec amélioration du drainage des condensats

Publication

**EP 0962736 A2 19991208 (EN)**

Application

**EP 99201397 A 19990504**

Priority

US 8854498 A 19980601

Abstract (en)

An improved corrugated heat conduction fin (20) for an evaporator (10) includes an integral feature for reducing the critical width of condensed water films retained in the internal channels formed between diverging pairs of fin walls (22). Aligned pairs of notches (26) are cut through the diverging fin walls (22), localized within the channels and between adjacent pairs of louver banks (24). What would otherwise be a long, continuous water film (F) formed in the fin channel is thereby broken up into a series of discontinuous individual films (F1, F2 and F3), each located over a respective louver bank (24). The individual, shorter films drain more efficiently through the louver banks (24), thereby growing to a significantly smaller critical width within the channels and blocking less air flow over and through the fin walls (22). <IMAGE>

IPC 1-7

**F28F 1/12**; **F28F 13/04**; **F28D 1/03**

IPC 8 full level

**F25B 39/02** (2006.01); **F28D 1/03** (2006.01); **F28F 1/12** (2006.01); **F28F 17/00** (2006.01)

CPC (source: EP)

**F28D 1/0341** (2013.01); **F28F 1/128** (2013.01); **F28F 17/005** (2013.01)

Citation (applicant)

- US 4621685 A 19861111 - NOZAWA KAZUO [JP]
- US 4966230 A 19901030 - HUGHES GREGORY G [US], et al
- US 4353224 A 19821012 - NONOGAKI MASAYUKI, et al
- US 4926932 A 19900522 - OHARA TOSHIO [JP], et al

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