

Title (en)
MANUFACTURE OF A HEAT TRANSFER SYSTEM

Title (de)
HERSTELLUNG EINES WÄRMEÜBERTRAGUNGSSYSTEMS

Title (fr)
FABRICATION D'UN SYSTEME DE TRANSFERT DE CHALEUR

Publication
EP 1682309 A4 20091104 (EN)

Application
EP 04810031 A 20041028

Priority
• US 2004035548 W 20041028
• US 51467003 P 20031028

Abstract (en)
[origin: WO2005043059A2] A method of making an evaporator includes orienting a vapor barrier wall, orienting a liquid barrier wall, and positioning a wick between the vapor barrier wall and the liquid barrier wall. The vapor barrier wall is oriented such that a heat-absorbing surface of the vapor barrier wall defines at least a portion of an exterior surface of the evaporator. The exterior surface is configured to receive heat. The liquid barrier wall is oriented adjacent the vapor barrier wall. The liquid barrier wall has a surface configured to confine liquid. A vapor removal channel is defined at an interface between the wick and the vapor barrier wall. A liquid flow channel is defined between the liquid barrier wall and the primary wick.

IPC 8 full level
B23P 11/02 (2006.01); **B23P 6/00** (2006.01); **B23P 17/00** (2006.01); **F28D 15/00** (2006.01); **F28D 15/04** (2006.01)

CPC (source: EP)
F28D 15/043 (2013.01); **F28F 2275/127** (2013.01)

Citation (search report)
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• [XY] RU 2098733 C1 19971210 - INST TEPILOFIZIKI URAL OTDEL RA [RU]
• [XP] WO 2004008045 A1 20040122 - BRASIL COMPRESSORES SA [BR], et al
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• [Y] WO 0133153 A1 20010510 - SWALES AEROSPACE [US]
• [XA] FR 2813662 A1 20020308 - ASTRIUM SAS [FR]
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• [Y] KOTLYAROV E Y; SEROV G P: "METHODS OF INCREASE OF THE EVAPORATORS RELIABILITY FOR LOOP HEAT PIPES AND CAPILLARY PUMPED LOOPS", EUROPEAN SYMPOSIUM ON SPACE ENVIRONMENTAL CONTROL SYSTEMS, XX, XX, 20 June 1994 (1994-06-20), pages 1 - 13, XP008036395
• See references of WO 2005043059A2

Designated contracting state (EPC)
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DOCDB simple family (publication)
WO 2005043059 A2 20050512; WO 2005043059 A3 20051229; AU 2004286255 A1 20050512; AU 2004286255 B2 20100408; BR PI0416000 A 20070102; BR PI0416000 B1 20191015; CN 100457379 C 20090204; CN 1910008 A 20070207; EP 1682309 A2 20060726; EP 1682309 A4 20091104; EP 1682309 B1 20181219; JP 2007510125 A 20070419; JP 5060785 B2 20121031; MX PA06004692 A 20081008

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US 2004035548 W 20041028; AU 2004286255 A 20041028; BR PI0416000 A 20041028; CN 200480039154 A 20041028; EP 04810031 A 20041028; JP 2006538194 A 20041028; MX PA06004692 A 20041028