



Information relating to File number P 39 29 024.7

Status on May 18, 2024
(Most recent update in DPMAregister on Jan 25, 2016)

Please note: This English version is a non-binding translation of the German register excerpt. Only the German version of the register excerpt is legally binding.

The following registrations exist:

Master data

- [-----] **Type of IP right:** Patent
- [-----] **Status:** Not pending/lapsed
- [21] **DE file number :** P 39 29 024.7
- [54] **Designation/title:** Wärmerohr
- [51] **IPC main class:** F28D 15/02 (1995.01)
- [22] **DE application date:** Sep 1, 1989
- [43] **Date of first publication:** Mar 14, 1991
- [-----] **Date of publication of grant:** Nov 14, 1991
- [71/
73] **Applicant/owner:** Deutsche Forschungsanstalt für Luft- und Raumfahrt eV, 53175 Bonn, DE
- [-----] **Inventor:** Lindner, Friedrich, Dipl.-Phys. Dr., W-7022 Echterdingen, DE;
- [74] **Representative:** Stellrecht, Wilhelm, Dipl.-Ing. M.Sc., 70182 Stuttgart, DE, Gießbach, Dietrich, Dipl.-Phys. Dr.rer.nat., 70182 Stuttgart, DE, Haecker, Walter, Dipl.-Phys., 70182 Stuttgart, DE, Böhme, Ulrich, Dipl.-Phys. Dr.rer.nat., 70182 Stuttgart, DE, Beck, Jürgen, Dipl.-Phys. Dr.rer.nat., 70182 Stuttgart, DE
- [10] **Published DE documents:** DE000003929024A1, DE000003929024C2
- [-----] **Address for service:** HOEGER, STELLRECHT & PARTNER Patentanwälte, 70182 Stuttgart, DE
- [-----] **Patent division in charge:** 16
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- [57] **Abstract:** Um eine Heatpipe mit einem ein wärmetransportierendes Medium beinhaltenden Gehäuse, welches einen Verdampfungsbereich und einen Kondensationsbereich aufweist, derart zu verbessern, daß die Heatpipe hinsichtlich ihrer Übertragungsleistung optimal arbeitet, wird vorgeschlagen, daß in dem Gehäuse ein Dampfkanal vorgesehen ist, daß zwischen dem Dampfkanal und dem Kondensationsbereich eine nichtbenetzbare poröse Struktur angeordnet ist, welche aufgrund ihrer Porengröße für das Kondensat undurchlässig ist, und daß ein das Kondensat vom Kondensationsbereich zum Verdampfungsbereich führender Kondensatkanal vorgesehen ist.
- [56] **Citations:** US000004109709A (US 41 09 709)
- [43] **Date of first publication:** Mar 14, 1991
- [-----] **Number of official communications (office actions):** 1
- [-----] **Number of responses:** 1
- [-----] **Date of the first transfer into DPMAregister:** May 26, 2011
- [-----] **Date of the (most recent) update in DPMAregister:** May 26, 2011; Feb 8, 2013; Jan 25, 2016

Procedural data

Pre-registration procedure

- [-----] **Type of procedure:** Pre-registration procedure
- [-----] **Legal/procedural status:** The application is under preliminary examination
- [-----] **Date of legal/procedural status:** Sep 1, 1989

Examination procedure

- [-----] **Type of procedure:** Examination procedure
- [-----] **Legal/procedural status:** Request for examination effectively filed
- [-----] **Date of legal/procedural status:** Sep 1, 1989
- [-----] **Third party request:** No
- [-----] **Date of receipt:** Sep 1, 1989

Change of classification

- [-----] **Type of procedure:** Change of classification
- [-----] **Legal/procedural status:** Change of IPC main class
- [-----] **Date of legal/procedural status:** Oct 10, 1989
- [51] **IPC main class:** F28D 15/00 (1990.01)
- [51] **Previous IPC main class:** F28D 15/00 (1985.01)

Pre-registration procedure

- [-----] **Type of procedure:** Pre-registration procedure
- [-----] **Legal/procedural status:** Pre-registration procedure has been concluded
- [-----] **Date of legal/procedural status:** Oct 26, 1989

Examination procedure

- [-----] **Type of procedure:** Examination procedure

[-----] **Legal/procedural status:** Reply to official communication

[-----] **Date of legal/procedural status:** Jan 3, 1991

Publications

[-----] **Type of procedure:** Publications

[-----] **Legal/procedural status:** Publication of application (Offenlegungsschrift)

[-----] **Date of legal/procedural status:** Mar 14, 1991

[-----] **Issue number:** 11

[-----] **Year:** 1991

[-----] **Publication date:** Mar 14, 1991

[-----] **Type of publication:** Documents

[-----] **Part:** Part 1

[10] **Published DE documents:** DE000003929024A1

Change of classification

[-----] **Type of procedure:** Change of classification

[-----] **Legal/procedural status:** Change of IPC main class

[-----] **Date of legal/procedural status:** Jul 10, 1991

[51] **IPC main class:** F28D 15/02 (1990.01)

[51] **Previous IPC main class:** F28D 15/00 (1990.01)

Examination procedure

[-----] **Type of procedure:** Examination procedure

[-----] **Legal/procedural status:** Decision to grant patent by Examining Section/Patent Division

[-----] **Date of legal/procedural status:** Jul 22, 1991

Publications

[-----] **Type of procedure:** Publications

[-----] **Legal/procedural status:** Patent specification

[-----] **Date of legal/procedural status:** Nov 14, 1991

[-----] **Issue number:** 46

[-----] **Year:** 1991

[-----] **Publication date:** Nov 14, 1991

[-----] **Type of publication:** Documents

[-----] **Part:** Part 3

[10] **Published DE documents:** DE000003929024C2

Examination procedure

[-----] **Type of procedure:** Examination procedure

[-----] **Legal/procedural status:** Grant of patent has become final

[-----] **Date of legal/procedural status:** Feb 14, 1992

[-----] **Issue number:** 20

[-----] **Year:** 1992
[-----] **Publication date:** May 14, 1992
[-----] **Type of publication:** Bibliographic data
[-----] **Part:** Part 3

Change of classification

[-----] **Type of procedure:** Change of classification
[-----] **Legal/procedural status:** Change of IPC main class
[-----] **Date of legal/procedural status:** Oct 1, 1994
[51] **IPC main class:** F28D 15/02 (1995.01)
[51] **Previous IPC main class:** F28D 15/02 (1990.01)

Administrative procedure

[-----] **Type of procedure:** Administrative procedure
[-----] **Legal/procedural status:** Application is deemed to be withdrawn due to non-payment of annual fee/ IP right has lapsed due to non-payment of annual fee
[-----] **Date of legal/procedural status:** Jun 1, 1996