

Title (en)  
Heating/cooling system used in air conditioner

Title (de)  
Heiz- und/oder Kühlanordnung für Klimagerät

Title (fr)  
Système de chauffage et/ou de refroidissement utilisé dans un appareil de conditionnement d'air

Publication  
**EP 1371919 A3 20050525 (EN)**

Application  
**EP 03004169 A 20030226**

Priority  
KR 20020032915 A 20020612

Abstract (en)  
[origin: EP1371919A2] A cooling/heating system used in an air conditioner is disclosed. The cooling/heating system comprises at least one silencer (30) coupled in series to a refrigerant pipe which is coupled to an expansion device (21) of an indoor unit (20), for eliminating a local pressure difference of a refrigerant flowing therein and for making a mixed state of gas and liquid uniform. The silencer (30) comprises a body direct coupled to the refrigerant pipe for making the refrigerant flow through therein, and a porous tube provided in the body, with a buffer space being formed between an outer periphery thereof and an inner periphery of the body, the porous tube having a plurality of passing holes for communicating an interior thereof with the buffer space. <IMAGE>

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**F25B 13/00**; **F25B 41/00**

IPC 8 full level  
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CPC (source: EP KR)  
**F24F 1/00** (2013.01 - KR); **F25B 13/00** (2013.01 - EP); **F25B 41/00** (2013.01 - EP); **F25B 2500/01** (2013.01 - EP); **F25B 2500/12** (2013.01 - EP)

Citation (search report)

- [X] DE 29817924 U1 19990107 - VICKERS AEROQUIP INT GMBH [DE]
- [X] US 5906225 A 19990525 - STARK TERRENCE LEE [US], et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 017, no. 479 (M - 1471) 31 August 1993 (1993-08-31)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 09 30 September 1997 (1997-09-30)

Cited by  
DE102013015072A1; EP3992541A4; CN114623589A; CN112179007A; DE102008033806A1; US11536501B2; WO2020055626A1; DE102018110370B4; EP3850281B1

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