

Title (en)

Scroll compressor with reverse rotation prevention

Title (de)

Spiralverdichter mit Schutz gegen Drehrichtungsumkehr

Title (fr)

Compresseur à spirales avec des protections contre la rotation en marche arrière

Publication

**EP 1041286 A3 20011024 (EN)**

Application

**EP 00200684 A 20000228**

Priority

US 28049599 A 19990330

Abstract (en)

[origin: EP1041286A2] A scroll type compressor is employed in a heat pump system having a solenoid actuated four way flow reversing valve. A processor monitors a system parameter that is indicative that a flow reversal has taken place or is about to take place, at which time the compressor motor is shut down for a predetermined period of time during which the compressor produces objectionable noise produced by separation of the scroll element due to a low pressure differential over the compressor. At the end of the period, the compressor motor is reenergized. The processor is arranged to cycle the compressor at the beginning and end of each defrost cycle or when the system undergoes a change in its operational mode.  
<IMAGE>

IPC 1-7

**F04C 18/02**; **F04C 29/10**

IPC 8 full level

**F04B 49/06** (2006.01); **F04C 2/02** (2006.01); **F04C 18/02** (2006.01); **F04C 28/06** (2006.01); **F04C 28/28** (2006.01); **F04C 29/06** (2006.01); **F24F 13/24** (2006.01); **F25B 1/00** (2006.01); **F25B 1/04** (2006.01); **F25B 30/02** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP)

**F04C 28/06** (2013.01); **F04C 28/28** (2013.01)

Citation (search report)

- [X] US 5285646 A 19940215 - TAEDUK KIM [KR]
- [X] JP S57150763 A 19820917 - TOKYO SHIBAURA ELECTRIC CO
- [A] US 4382370 A 19830510 - SUEFUJI KAZUTAKA [JP], et al
- [A] US 4869073 A 19890926 - KAWAI NOBUO [JP], et al

Cited by

CN108072201A; US11137170B2; US9239183B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 1041286 A2 20001004**; **EP 1041286 A3 20011024**; AU 2266100 A 20001005; CN 1268651 A 20001004; JP 2000297771 A 20001024; KR 20000063059 A 20001025

DOCDB simple family (application)

**EP 00200684 A 20000228**; AU 2266100 A 20000329; CN 00103692 A 20000228; JP 2000090112 A 20000329; KR 20000016369 A 20000330