

Title (en)

Control circuit for an air conditioner

Title (de)

Steuerschaltung für eine Klimaanlage

Title (fr)

Circuit de commande pour un dispositif de conditionnement d'air

Publication

**EP 1158253 A3 20030205 (EN)**

Application

**EP 01109518 A 20010417**

Priority

- JP 2000151377 A 20000523
- JP 2000178435 A 20000614

Abstract (en)

[origin: EP1158253A2] A PTC thermistor (24d) is used in a communication circuit. When AC power source (10) has been erroneously supplied to the communication circuit, the PTC thermistor (24d) is self-heated instantaneously by an over-current and changes its resistance from a few OMEGA to a few M OMEGA so as to cut off the over-current to the communication circuit, thereby to protect the communication circuit. <IMAGE>

IPC 1-7

**F24F 11/00**

IPC 8 full level

**F24F 11/00** (2006.01)

CPC (source: EP US)

**F24F 11/30** (2017.12 - EP); **F24F 11/32** (2017.12 - EP US); **F24F 11/52** (2017.12 - EP)

Citation (search report)

- [X] US 5642857 A 19970701 - TOTSUKA HIDEKAZU [JP], et al
- [A] WO 9934152 A1 19990708 - DAIKIN IND LTD [JP]
- [XY] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 08 29 August 1997 (1997-08-29)
- [Y] PATENT ABSTRACTS OF JAPAN vol. 010, no. 066 (M - 461) 15 March 1986 (1986-03-15)
- [A] PATENT ABSTRACTS OF JAPAN vol. 018, no. 418 (M - 1650) 5 August 1994 (1994-08-05)
- [A] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 08 29 September 1995 (1995-09-29)

Cited by

CN114234549A; EP2042819A3; US7848852B2; EP1830138A4; EP3779298A4; WO2006057221A1; US8249750B2; EP3399637B1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**EP 1158253 A2 20011128; EP 1158253 A3 20030205; EP 1158253 B1 20070124;** AU 2489201 A 20011213; AU 753916 B2 20021031; AU 753916 C 20051222; ES 2276725 T3 20070701

DOCDB simple family (application)

**EP 01109518 A 20010417;** AU 2489201 A 20010306; ES 01109518 T 20010417