

Title (en)
INDOOR-OUTDOOR COMMUNICATION DEVICE IN AIR CONDITIONER

Title (de)
INNEN/AUSSENKOMMUNIKATIONSGERÄT FÜR KLIMAANLAGE

Title (fr)
DISPOSITIF DE COMMUNICATION INTERIEUR-EXTERIEUR DANS UN CONDITIONNEUR D'AIR

Publication
EP 1036995 A1 20000920 (EN)

Application
EP 99900032 A 19990104

Priority
• JP 9900002 W 19990104
• JP 36796897 A 19971229

Abstract (en)
An air conditioner comprising one outdoor unit (1) and a plurality of indoor units (2) connected to the outdoor unit (1) via three connection lines (3) including commercial power supply lines (3a)(3b) in parallel with each other, wherein the outdoor unit (1) includes an outdoor micro-computer (14), an outdoor D.C. power supply (11), an outdoor transmission photo-coupler (15), an outdoor reception photo-coupler (16), and a termination resistance (17) connected in parallel with the outdoor reception photo-coupler (16), and each indoor unit (2) includes an indoor D.C. power supply (21), an indoor micro-computer (22), an indoor reception photo-coupler (24), an indoor transmission photo-coupler (23), and a positive temperature characteristic thermister (25) connected in series with the indoor transmission photo-coupler (23), so that components having nothing to do with ordinary indoor-outdoor communication operation are not required, and a disadvantage such that transmission and reception circuit components are destroyed or snapped is prevented from occurrence even when mis-wiring is realized. <IMAGE>

IPC 1-7
F24F 11/02

IPC 8 full level
F24F 11/02 (2006.01); **F24F 11/00** (2006.01)

CPC (source: EP US)
F24F 11/30 (2018.01 - EP); **F24F 11/52** (2018.01 - EP US); **F24F 11/62** (2018.01 - EP); **F24F 11/54** (2018.01 - EP); **F24F 2221/32** (2013.01 - EP)

Cited by
AU2002300420B2; US7848852B2; EP2420751A4; US10122164B2; US8249750B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 1036995 A1 20000920; **EP 1036995 A4 20001206**; **EP 1036995 B1 20020814**; AT E222343 T1 20020815; CN 1116556 C 20030730; CN 1292077 A 20010418; DE 69902511 D1 20020919; DE 69902511 T2 20030403; ES 2182477 T3 20030301; JP 3399337 B2 20030421; JP H11193950 A 19990721; WO 9934152 A1 19990708

DOCDB simple family (application)
EP 99900032 A 19990104; AT 99900032 T 19990104; CN 99803408 A 19990104; DE 69902511 T 19990104; ES 99900032 T 19990104; JP 36796897 A 19971229; JP 9900002 W 19990104