

Title (en)
AIR CONDITIONER

Publication
EP 0547450 A3 19931124 (EN)

Application
EP 92120733 A 19921204

Priority
JP 33102691 A 19911216

Abstract (en)
[origin: EP0547450A2] An air conditioner accommodates therein a heat exchanger (5) having a plurality of plate fins (11) and a plurality of heat exchanging pipes (9), and a once-through fan (10) located rearwardly of the heat exchanger. A V-shaped cut-out (14) is provided only in one side of the plate fin toward the blower. An upper portion of the plate fin above the cut-out (14) and a lower portion of the plate fin below the cut-out are bent substantially into an L-shaped configuration at a predetermined angle to form the heat exchanger (5). A bent portion (6) on the heat exchanger (5) is positioned in the vicinity of a level of a center of rotary axis of the once-through fan (10). <IMAGE>

IPC 1-7
F24F 1/00

IPC 8 full level
F24F 1/00 (2006.01); **F24F 1/0057** (2019.01); **F24F 1/0063** (2019.01); **F24F 1/0067** (2019.01); **F24F 13/30** (2006.01); **F28F 1/32** (2006.01)

CPC (source: EP US)
F24F 1/0057 (2019.01 - EP US); **F24F 1/0063** (2019.01 - EP US); **F24F 1/0067** (2019.01 - EP US); **F28F 1/325** (2013.01 - EP)

Citation (search report)
• [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 319 (M-0996)9 July 1990 & JP-A-02 106 632 (MATSUSHITA ELECTRIC) 18 April 1990
• [A] PATENT ABSTRACTS OF JAPAN vol. 015, no. 208 (M-1117)28 May 1991 & JP-A-03 055 491 (SANYO ELECTRIC) 11 March 1991
• [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 315 (M-0995)6 July 1990 & JP-A-02 106 228 (MATSUSHITA ELECTRIC) 18 April 1990

Cited by
US5555931A; EP0668473A3; US5669229A; US5575326A; ES2114369A1; US11168948B2; WO2023097997A1

Designated contracting state (EPC)
ES IT

DOCDB simple family (publication)
EP 0547450 A2 19930623; EP 0547450 A3 19931124; EP 0547450 B1 19960306; CN 1028181 C 19950412; CN 1075780 A 19930901; ES 2085541 T3 19960601; JP H05164348 A 19930629; MY 114233 A 20020930

DOCDB simple family (application)
EP 92120733 A 19921204; CN 92115165 A 19921216; ES 92120733 T 19921204; JP 33102691 A 19911216; MY PI19922274 A 19921210