

Title (en)

Replacing gas collecting trap for an air conditioner

Title (de)

Falle für die Sammlung von Austauschungs gas in einer Klimaanlage

Title (fr)

Piège pour recueillir le gaz de remplacement dans un dispositif de conditionnement d'air

Publication

EP 1067340 A3 20010704 (EN)

Application

EP 00114304 A 20000704

Priority

JP 19002899 A 19990705

Abstract (en)

[origin: EP1067340A2] This invention relates to a replacing gas collecting trap apparatus used for installing an air conditioner, an outdoor unit includes a compressor and an outdoor unit heat exchanger and refrigerant gas is charged into both of the compressor and the outdoor unit exchanger, an indoor unit includes an indoor unit heat exchanger which is opened into atmosphere, and a connecting pipe connecting the outdoor unit and the indoor unit, that is comprised of: a trap container body; a gas trap agent charged in said trap container for absorbing and collecting a replacing gas which has replaced air in said indoor unit heat exchanger and said connecting pipe through a connecting apparatus, wherein a volume of space inside said trap container is larger than the volume of inner space of said connecting apparatus. By this configuration, when the collecting trap apparatus is connected to the refrigeration cycle, by the volume of the space of negative pressure inside the apparatus, the air inside the connecting apparatus and the replacing gas contained in the connecting pipes are inhaled at one go to the collecting trap apparatus, then collected to the gas trap agent by physical absorption or chemical reaction. <IMAGE>

IPC 1-7

F24F 1/02; **F25B 41/00**; **F25B 45/00**

IPC 8 full level

F25B 43/04 (2006.01); **F25B 45/00** (2006.01); **F25B 13/00** (2006.01); **F25B 41/00** (2006.01)

CPC (source: EP US)

F25B 45/00 (2013.01 - EP US); **F25B 13/00** (2013.01 - EP); **F25B 43/04** (2013.01 - EP)

Citation (search report)

- [XAY] US 5718119 A 19980217 - WAKITA KATSUYA [JP], et al
- [Y] WO 9005669 A1 19900531 - COIL MATIC INC [US]
- [E] EP 1041347 A2 20001004 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [E] EP 1041348 A2 20001004 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [E] EP 1041349 A2 20001004 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [PX] EP 1014015 A1 20000628 - SANYO ELECTRIC CO [JP]
- [A] US 5917140 A 19990629 - TOM GLENN M [US]
- [A] WO 9015293 A1 19901213 - NORISK HYDRO AS [NO]
- [A] US 4556091 A 19851203 - POULSEN BO [DK]
- [A] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 09 30 September 1997 (1997-09-30)

Cited by

CN100338418C; EP3693687A3

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 1067340 A2 20010110; **EP 1067340 A3 20010704**; **EP 1067340 B1 20050928**; DE 60022831 D1 20060209; DE 60022831 T2 20060511; ES 2247986 T3 20060316; JP 2001021239 A 20010126; JP 3149871 B2 20010326; MY 125784 A 20060830

DOCDB simple family (application)

EP 00114304 A 20000704; DE 60022831 T 20000704; ES 00114304 T 20000704; JP 19002899 A 19990705; MY PI20003047 A 20000704