

Title (en)  
Connecting apparatus for installing air conditioner

Title (de)  
Verbindungsvorrichtung zum Installieren einer Klimaanlage

Title (fr)  
Élément de connection pour l'installation d'un dispositif de conditionnement d'air

Publication  
**EP 1041347 A3 20010704 (EN)**

Application  
**EP 00106822 A 20000330**

Priority  
JP 9457699 A 19990401

Abstract (en)  
[origin: EP1041347A2] A connecting apparatus for installing an air conditioner comprises a first connecting port connected to a refrigerant charge port of a pipe connecting valve body provided in an outdoor unit of the air conditioner, and a second connecting port connected to a replacing gas charging container being allowed to flow from the refrigerant charge port, wherein the first connecting port includes a first connecting portion capable of being connected to the refrigerant charge port, the second connecting port includes a second connecting portion capable of being connected to the replacing gas charging container, the refrigerant charge port is opened by connecting the first connecting port and the refrigerant charge port to each other by the first connecting portion, and the refrigerant charge port is opened by connecting the second connecting portion and the replacing gas charging container to each other by the second connecting portion. With this structure, after air in the indoor unit heat exchanger or the connecting pipe is once replaced by the replacing gas, the replacing gas can easily be collected. <IMAGE>

IPC 1-7  
**F24F 1/00**; **F25B 41/00**; **F25B 45/00**

IPC 8 full level  
**F16L 37/40** (2006.01); **B82Y 99/00** (2011.01); **F24F 1/00** (2006.01); **F24F 1/26** (2011.01); **F25B 1/00** (2006.01); **F25B 41/00** (2006.01); **F25B 43/04** (2006.01); **F25B 45/00** (2006.01)

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Citation (search report)

- [YDA] US 5718119 A 19980217 - WAKITA KATSUYA [JP], et al
- [A] US 5010743 A 19910430 - HALE PHILLIP L [US]
- [E] EP 1041348 A2 20001004 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [E] EP 1041349 A2 20001004 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [PX] EP 0962728 A1 19991208 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [A] JP S56124867 A 19810930 - YOKOHAMA AEROQUIP
- [A] US 2518299 A 19500808 - FERNANDEZ DAN T
- [A] US 4069686 A 19780124 - HOELMAN WALTER A
- [A] US 4332273 A 19820601 - BOYCE HAROLD L
- [Y] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 07 31 August 1995 (1995-08-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 09 31 July 1998 (1998-07-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 12 26 December 1996 (1996-12-26)

Cited by  
US6561237B1; US6926048B2; FR2847664A1; EP1067340A3; CN100451466C; EP1041349A3; CN113932503A; CN103629465A; CN105570988A; US2021003290A1; USD1010776S; US11747025B2; WO2011115913A3; WO0244633A1; US11236933B2; US11982476B1; US11982451B1; US7174929B2; WO2004051162A1; WO2018217904A1

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