Title (en)
 AIR CONDITIONING SYSTEM

Title (de)
 KLIMAANLAGE

Title (fr)
 SYSTÈME DE CLIMATISATION

Publication
 EP 2037186 B1 20160511 (EN)

Application
 EP 07766982 A 20070529

Priority
 • JP 2007060861 W 20070529
 • JP 2006152489 A 20060531

Abstract (en)
 [origin: EP2037186A1] To provide an air conditioner that eliminates discomfort (drafty feeling) that is produced as a result of conditioned air directly striking the human body and ensures heating comfort. An air conditioner (1) includes an indoor heat exchanger (6) that causes heat to be radiated with respect to air from a supercritical refrigerant and a fan (53) that generates an air flow with respect to the indoor heat exchanger (6). In the indoor heat exchanger (6) during heat radiation, the refrigerant is allowed to flow such that the refrigerant moves from a downstream side of the air flow closer to an upstream side thereof, and conditioned air that has been heated by the indoor heat exchanger (6) is blown out upward inside a room and is sucked in from below. The blowout temperature of the conditioned air is 45°C to 55°C, and the blowout velocity of the conditioned air is equal to or less than 2 m/s.

IPC 8 full level
 F24F 1/0063 (2019.01); **F24F 11/02** (2006.01); **F24F 13/30** (2006.01); **F25B 1/00** (2006.01); **F25B 9/00** (2006.01); **F25B 13/00** (2006.01); **F28D 1/02** (2006.01); **F28D 1/047** (2006.01); **F28D 1/053** (2006.01); **F28F 1/32** (2006.01)

CPC (source: EP US)
 F24F 1/0053 (2019.01 - EP); **F24F 1/0063** (2019.01 - EP US); **F24F 13/30** (2013.01 - EP); **F25B 9/008** (2013.01 - EP); **F28D 1/024** (2013.01 - EP); **F28D 1/0477** (2013.01 - EP); **F28F 1/32** (2013.01 - EP); F24F 1/0022 (2013.01 - EP); F25B 13/00 (2013.01 - EP); F25B 2309/061 (2013.01 - EP)

Cited by
 CN103392109A; EP2674717A4; AU2012221582B2; US10048018B2

Designated contracting state (EPC)
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 EP 2037186 A1 20090318; **EP 2037186 A4 20111207**; **EP 2037186 B1 20160511**; CN 101454615 A 20090610; CN 101454615 B 20120620; JP 2007322061 A 20071213; JP 5087861 B2 20121205; WO 2007139087 A1 20071206

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