

Title (en)
Jet pump and air conditioner

Title (de)
Strahlpumpe und Klimaanlage

Title (fr)
Pompe à jet et climatiseur d'air

Publication
EP 2439469 A3 20140122 (EN)

Application
EP 11184212 A 20111006

Priority
• JP 2010228225 A 20101008
• JP 2011221598 A 20111006

Abstract (en)
[origin: EP2439469A2] A jet pump includes a discharge outlet (51a) configured to discharge refrigerant in which relatively high pressure refrigerant and relatively low pressure refrigerant are mixed, a diffuser (55) disposed coaxially with the discharge outlet in an upstream side of the discharge outlet, the diffuser including an inside diameter which gradually reduces in size away from the discharge outlet, a suction hole (52a) following from a minimum diameter portion of the diffuser in an upstream side of the minimum diameter portion, disposed coaxially with the discharge outlet, and to which the lower pressure refrigerant is guided, a high pressure refrigerant path (53) configured to guide the high pressure refrigerant to the diffuser, and a nozzle portion (59) configured to eject the high pressure refrigerant from the high pressure refrigerant path into the diffuser in a downstream side of the minimum diameter portion.

IPC 8 full level
F25B 41/00 (2006.01); **F04F 5/04** (2006.01)

CPC (source: EP US)
F04F 5/04 (2013.01 - EP US); **F25B 41/00** (2013.01 - EP US); **F25B 2341/0011** (2013.01 - EP US); **F25B 2500/01** (2013.01 - EP US)

Citation (search report)
• [XY] US 3799195 A 19740326 - HERMANS F
• [Y] US 2008060378 A1 20080313 - GOCHO MIKA [JP], et al
• [A] JP 2005282507 A 20051013 - DENSO CORP
• [A] US 2007028630 A1 20070208 - YAMADA ETSUHISA [JP], et al
• [A] US 2003213264 A1 20031120 - OGATA GOTA [JP], et al
• [A] US 4373344 A 19830215 - HINN JOHN S

Cited by
CN104329298A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2439469 A2 20120411; EP 2439469 A3 20140122; JP 2012097733 A 20120524; US 2012085124 A1 20120412

DOCDB simple family (application)
EP 11184212 A 20111006; JP 2011221598 A 20111006; US 201113268056 A 20111007