

Title (en)
METHOD AND DEVICE FOR GAS CONDITIONING

Publication
EP 0191007 A3 19871007 (EN)

Application
EP 86850029 A 19860131

Priority
SE 8500584 A 19850208

Abstract (en)
[origin: EP0191007A2] Method and device for conditioning a gas such as air, wherein the gas is cooled by means of a cooling circuit for dehydration of the gas by evaporation of a refrigerant in the evaporator (16) of the cooling circuit. The gas is conducted also through a treatment zone in a regenerative exchanger apparatus, in which moisture is delivered to a moisture absorbing drying agent. The cooling circuit comprises in addition to the evaporator (16) a compressor (26) and a condenser (24). The cooling circuit is regulated as to its effect so that the greatest cooling and dehydration effect is obtained without any formation of ice on the evaporator taking place.

IPC 1-7
F24F 3/14

IPC 8 full level
F24F 3/14 (2006.01); **F24F 3/147** (2006.01); **F24F 5/00** (2006.01)

CPC (source: EP)
F24F 3/1405 (2013.01); **F24F 3/1423** (2013.01); **F24F 5/001** (2013.01); **F24F 2003/1464** (2013.01); **F24F 2203/1016** (2013.01); **F24F 2203/1032** (2013.01); **F24F 2203/104** (2013.01); **F24F 2203/106** (2013.01); **F24F 2203/1068** (2013.01); **F24F 2203/1084** (2013.01)

Citation (search report)
• [X] FR 2357828 A1 19780203 - DAIKIN IND LTD [JP]
• [Y] US 3968833 A 19760713 - STRINDEHAG OVE, et al
• [A] US 2102354 A 19371214 - CHAMBERS JEWEL C
• [A] DE 2932342 A1 19810226 - LINDE AG
• [A] FR 2299605 A1 19760827 - BERNIER JEAN PAUL [FR]
• [A] GB 2076958 A 19811209 - CARRIER DRYSYS LTD
• [A] US 4474021 A 19841002 - HARBAND JOEL [IL]
• [A] FR 2428211 A1 19800104 - CARRIER DRYSYS LTD [GB]
• [A] PATENT ABSTRACTS OF JAPAN, vol. 7, no. 37 (M-193)[1182], 15th February 1983; & JP-A-57 188 948 (TAKASAGO NETSUGAKU KOGYO K.K.) 20-11-1982

Cited by
EP2767770A4; FR2941520A1; DE19900846B4; BE1027505B1; US5461877A; EP1367333A4; EP0545668A3; US5421171A; EP0269399A3; CN100350192C; AU2003251422B2; AU2003251422C1; DE102014226355A1; WO9951918A1; WO2004055443A1; WO2016067234A1; WO2005097457A3; US8631661B2; US6711907B2; US6813894B2; US8828128B1; US9303885B1

Designated contracting state (EPC)
BE DE FR GB IT NL

DOCDB simple family (publication)
EP 0191007 A2 19860813; EP 0191007 A3 19871007; JP S61228234 A 19861011; SE 8500584 D0 19850208; SE 8500584 L 19860809

DOCDB simple family (application)
EP 86850029 A 19860131; JP 2308186 A 19860206; SE 8500584 A 19850208