

Title (en)
EVAPORATIVE AIR CONDITIONING SYSTEM

Title (de)
VERDAMPFUNGSKLIMAANLAGE

Title (fr)
SYSTÈME DE CLIMATISATION À ÉVAPORATION

Publication
EP 2895797 A4 20160810 (EN)

Application
EP 13892077 A 20131108

Priority
US 2013069292 W 20131108

Abstract (en)
[origin: WO2015069284A1] An evaporative air conditioner system includes a heat exchanger having an inlet and an outlet and a plurality of passageways between the inlet and the outlet; a pump and nozzle assembly for introducing pressurized air and water to the inlet of the heat exchanger to create a mist of water droplets suspended in air; a vacuum assembly for creating a partial vacuum near the outlet of the heat exchanger to draw the mist through the passageways and to the outlet of the heat exchanger to remove heat from the heat exchanger through evaporative cooling; and a transfer mechanism for moving a medium past the heat exchanger to remove heat from the air without permitting the medium to mix with the mist drawn through the heat exchanger.

IPC 8 full level
F24F 5/00 (2006.01); **F24F 1/0059** (2019.01)

CPC (source: EP US)
F24F 1/0007 (2013.01 - EP); **F24F 1/0059** (2013.01 - EP US); **F24F 5/0035** (2013.01 - EP); **F24F 2006/143** (2013.01 - EP); **Y02B 30/54** (2013.01 - EP)

Citation (search report)
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• [YA] WO 2011074005 A2 20110623 - DHALI WAL SUKHDARSHAN SINGH [IN]
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• [A] US 6293121 B1 20010925 - LABRADOR GAUDENCIO A [US]
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• [A] US 2175163 A 19391003 - WATERFILL ROBERT W
• See references of WO 2015069284A1

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)
WO 2015069284 A1 20150514; EP 2895797 A1 20150722; EP 2895797 A4 20160810; MX 2015002895 A 20150827

DOCDB simple family (application)
US 2013069292 W 20131108; EP 13892077 A 20131108; MX 2015002895 A 20131108