

Title (en)
TEMPERATURE-CONTROLLED MEDICINAL STORAGE DEVICES

Title (de)
TEMPERATURGESTEUERTE MEDIZINISCHE AUFBEWAHRUNGSVORRICHTUNGEN

Title (fr)
DISPOSITIF DE STOCKAGE DE MÉDICAMENT À TEMPÉRATURE CONTRÔLÉE

Publication
EP 3177257 A4 20180404 (EN)

Application
EP 15830436 A 20150805

Priority
• US 201414454899 A 20140808
• US 2015043808 W 20150805

Abstract (en)
[origin: WO2016022681A1] In some embodiments, a medicinal storage container includes: a desiccant unit including external walls forming a gas-impermeable barrier around an interior desiccant region and including an aperture; a heating element; a controller operably attached to the heating element; a cooling unit; a compressor system including at least one evaporator coil unit, the compressor operably connected to the controller; a vapor conduit, the vapor conduit attached to a the desiccant unit at a first end, the vapor conduit attached to the evaporative cooling unit at a second end, the vapor conduit forming an internal, gas-impermeable passageway between the desiccant unit and the cooling unit; a vapor control unit attached to the vapor conduit and operably attached to the controller; and a medicinal storage unit including external walls encircling a medicinal storage region including a temperature sensor operably connected to the controller.

IPC 8 full level
F25D 16/00 (2006.01); **A61J 1/00** (2006.01); **F25B 25/02** (2006.01)

CPC (source: EP KR)
A61J 1/00 (2013.01 - KR); **F25B 25/02** (2013.01 - EP); **F25D 11/00** (2013.01 - KR); **F25D 16/00** (2013.01 - EP); **F25D 17/042** (2013.01 - KR); **F25D 19/006** (2013.01 - KR); **F25D 29/00** (2013.01 - KR); **A61J 1/00** (2013.01 - EP); **F25D 2317/0411** (2013.01 - KR); **F25D 2331/8014** (2013.01 - KR); **F25D 2400/02** (2013.01 - EP); **F25D 2700/12** (2013.01 - KR)

Citation (search report)
• [IA] US 3953983 A 19760504 - SANDER ERNST
• [I] JP 2004294023 A 20041021 - KOBE STEEL LTD
• [A] US 7543455 B1 20090609 - CHEN CHENGJUN JULIAN [US]
• [A] WO 2011007162 A2 20110120 - TRUE ENERGY LTD [GB], et al
• [A] US 1778322 A 19301014 - HULL HARRY B
• [A] US 5816069 A 19981006 - EBBESON BENGT [CH]
• [A] CN 102445041 A 20120509 - LIN YONG
• See references of WO 2016022681A1

Cited by
CN114739075A

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

DOCDB simple family (publication)
WO 2016022681 A1 20160211; CN 106794114 A 20170531; CN 106794114 B 20200605; DK 3177257 T3 20200831; EP 3177257 A1 20170614; EP 3177257 A4 20180404; EP 3177257 B1 20200729; JP 2017523003 A 20170817; JP 6632606 B2 20200122; KR 102361234 B1 20220209; KR 20170054395 A 20170517; SG 11201700928V A 20170330

DOCDB simple family (application)
US 2015043808 W 20150805; CN 201580053956 A 20150805; DK 15830436 T 20150805; EP 15830436 A 20150805; JP 2017506906 A 20150805; KR 20177006326 A 20150805; SG 11201700928V A 20150805