

Title (en)  
RFID ENABLED DRAWER REFRIGERATION SYSTEM

Title (de)  
KÜHLSYSTEM MIT RFID-AKTIVIERTEN SCHUBLADEN

Title (fr)  
SYSTÈME DE RÉFRIGÉRATION DE TIROIRS À ACTIVATION RFID

Publication  
**EP 2645902 A2 20131009 (EN)**

Application  
**EP 11844627 A 20111202**

Priority  
• US 41976210 P 20101203  
• US 2011063162 W 20111202

Abstract (en)  
[origin: WO2012075449A2] A automated system and associated method for storing medical items comprises a medication cabinet having at least one refrigerated drawer using a thermo-electric cooling (TEC) device and a non-refrigerated drawer. The drawer design is such that cooling gradients throughout the drawer are minimized. Faraday cages are provided about each drawer to support separate RFID readers to monitor the medical items in each drawer. The refrigerated drawer is insulated so that adjacent non-refrigerated drawers are not significantly affected by the temperature of the refrigerated drawer and they may exist at room temperature. An automatic RFID data detection system determines the temperature requirements of medical items in the refrigerated drawer and controls the TEC device to maintain the required temperature. A temperature logging system for the refrigerated drawer is provided. A separate RFID reader determines if a temperature-controlled item has been place in a non-refrigerated drawer and if so, an alert is provided.

IPC 8 full level  
**A47B 67/02** (2006.01); **A47B 67/04** (2006.01); **A61G 12/00** (2006.01); **F25D 11/00** (2006.01); **F25D 11/02** (2006.01); **G06K 17/00** (2006.01); **G16H 10/60** (2018.01)

CPC (source: EP KR US)  
**A47B 67/02** (2013.01 - KR); **A61G 12/00** (2013.01 - KR); **F25D 11/00** (2013.01 - KR); **F25D 29/00** (2013.01 - EP); **G06K 17/00** (2013.01 - KR); **G07F 9/002** (2020.05 - EP KR US); **G07F 9/105** (2013.01 - EP); **G07F 11/60** (2013.01 - EP); **G07F 17/0092** (2013.01 - EP); **H04Q 9/00** (2013.01 - EP US); **F25D 2500/06** (2013.01 - EP); **F25D 2700/08** (2013.01 - EP); **G16H 20/13** (2017.12 - EP US); **H04Q 2209/47** (2013.01 - EP); **H04Q 2209/823** (2013.01 - EP)

Cited by  
CN109615039A

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 2012075449 A2 20120607**; **WO 2012075449 A3 20121108**; AU 2011336294 A1 20130711; CA 2822248 A1 20120607; EP 2645902 A2 20131009; EP 2645902 A4 20160525; JP 2014500210 A 20140109; JP 5985500 B2 20160906; KR 20130130006 A 20131129

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**US 2011063162 W 20111202**; AU 2011336294 A 20111202; CA 2822248 A 20111202; EP 11844627 A 20111202; JP 2013542225 A 20111202; KR 20137017254 A 20111202