

Title (en)

METHOD AND APPARATUS FOR IMPROVING THE CHARGE ACCURACY OF A REFRIGERANT RECOVERY UNIT HAVING A CHECK VALVE DEVICE AND TEMPERATURE CONTROLLED SERVICE HOSES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR VERBESSERUNG DER LADUNGSGENAUIGKEIT EINER KÜHLMITTELRÜCKGEWINNUNGSEINHEIT MIT EINEM RÜCKSCHLAGVENTIL UND TEMPERATURGESTEUERTEN ZUFUHRSCHLÄUCHEN

Title (fr)

PROCÉDÉ ET APPAREIL D'AMÉLIORATION DE LA PRÉCISION DE CHARGE D'UNE UNITÉ DE RÉCUPÉRATION DE FLUIDE FRIGORIGÈNE COMPRENANT UN DISPOSITIF DE CLAPET DE NON RETOUR ET DES TUYAUX FLEXIBLES DE SERVICE À TEMPÉRATURE CONTRÔLÉE

Publication

EP 2972017 A4 20161123 (EN)

Application

EP 14779672 A 20140312

Priority

- US 201313797132 A 20130312
- US 201313803752 A 20130314
- US 201313828096 A 20130314
- US 2014024967 W 20140312

Abstract (en)

[origin: WO2014165248A1] A refrigerant recovery unit with improved charging accuracy is provided. A service hose that includes a service coupler and a check valve A refrigerant recovery unit with improved charging accuracy is provided. A service hose includes a service coupler and a check valve assembly. The assembly is disposed proximal to the service coupler and includes a recovery flow and recharge flow path. The assembly is configured to provide a substantially free flow of refrigerant and also configured to provide a predetermined cracking pressure in response to the refrigerant being urged to flow along the recharge flow path. The disclosure includes thermally conditioning the interior of the service hoses based on one or more temperature reading(s) and/or based on a function and may be achieved by a heater along the length of the hose, recirculating refrigerant, and/or through a parallel line of heated liquid.

IPC 8 full level

F25B 45/00 (2006.01)

CPC (source: EP)

F25B 45/00 (2013.01); **F25B 2345/003** (2013.01); **F25B 2345/007** (2013.01)

Citation (search report)

- [X1] DE 4123988 A1 19920206 - KENT MOORE CORP [US]
- [X1] US 4805416 A 19890221 - MANZ KENNETH W [US], et al
- See references of WO 2014165248A1

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 2014165248 A1 20141009; CN 105209838 A 20151230; CN 105209838 B 20180608; EP 2972017 A1 20160120; EP 2972017 A4 20161123; EP 2972017 B1 20200923

DOCDB simple family (application)

US 2014024967 W 20140312; CN 201480027199 A 20140312; EP 14779672 A 20140312