

Title (en)  
EJECTOR CYCLE HEAT RECOVERY REFRIGERANT SEPARATOR

Title (de)  
WÄRMERÜCKGEWINNUNGSKÄLTEMITTELSEPARATOR EINES EJEKTORZYKLUS

Title (fr)  
SÉPARATEUR À RÉCUPÉRATION DE CHALEUR ET À ÉJECTION UTILISANT UN FLUIDE FRIGORIGÈNE

Publication  
**EP 3102891 A1 20161214 (EN)**

Application  
**EP 15703720 A 20150203**

Priority  
• US 201461936781 P 20140206  
• US 2015014159 W 20150203

Abstract (en)  
[origin: WO2015119903A1] A system (170; 300; 400) comprising a compressor (22). A heat rejection heat exchanger (30; 420) is coupled to the compressor to receive refrigerant compressed by the compressor. A separator (180) has: a vessel (181); an inlet (50) coupled to the heat rejection heat exchanger to receive refrigerant; a first outlet (54) in communication with a headspace of the vessel; and a second outlet (52, 52') in communication with a lower portion of the vessel. The system has a heat exchanger (182; 220; 220'; 220"; 220???") for transferring heat from refrigerant passing from a heat rejection heat exchanger to liquid refrigerant in the separator.

IPC 8 full level  
**F25B 1/00** (2006.01); **F25B 1/10** (2006.01); **F25B 9/00** (2006.01); **F25B 9/08** (2006.01); **F25B 40/00** (2006.01); **F25B 41/00** (2006.01); **F25B 43/00** (2006.01)

CPC (source: EP US)  
**F25B 1/00** (2013.01 - EP US); **F25B 9/008** (2013.01 - EP US); **F25B 9/08** (2013.01 - US); **F25B 40/00** (2013.01 - EP US); **F25B 41/00** (2013.01 - EP US); **F25B 41/385** (2021.01 - EP); **F25B 41/39** (2021.01 - EP); **F25B 43/00** (2013.01 - US); **F25B 43/006** (2013.01 - US); **F25B 1/10** (2013.01 - EP US); **F25B 41/385** (2021.01 - US); **F25B 41/39** (2021.01 - US); **F25B 2309/06** (2013.01 - EP US); **F25B 2341/0012** (2013.01 - EP US); **F25B 2400/23** (2013.01 - EP US)

Cited by  
US11578896B2; WO2020211184A1

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 2015119903 A1 20150813**; CN 105980792 A 20160928; CN 105980792 B 20200811; EP 3102891 A1 20161214; US 2017167767 A1 20170615

DOCDB simple family (application)  
**US 2015014159 W 20150203**; CN 201580007306 A 20150203; EP 15703720 A 20150203; US 201515116934 A 20150203