

Title (en)
OPTIMIZED MULTI-PURPOSE REFRIGERATION CIRCUIT

Title (de)
OPTIMIERTER MEHRZWECK-KÜHLKREISLAUF

Title (fr)
CIRCUIT DE RÉFRIGÉRATION POLYVALENTE OPTIMISÉE

Publication
EP 3067645 A1 20160914 (EN)

Application
EP 16160032 A 20160311

Priority
IT BO20150120 A 20150312

Abstract (en)
A multi-purpose refrigeration circuit (1) having a plurality of utilities (U; U1, U2, U3), each of which is suited to request an operating temperature that is different from the one of the other utilities (U; U1, U2, U3), a compressor (2), a plurality of branches (R; R1, R2, R3), and one or more solenoid valves (S; S1, S2, S3), each of which is installed downstream of the compressor (2) and along a respective branch (R1; R2; R3); and one or more non-return valves (V; V1, V2, V3), each of which is installed in series and/or in parallel to a respective solenoid valve (S1; S2; S3). Main figure: figure 1

IPC 8 full level
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CPC (source: EP US)
F25B 6/02 (2013.01 - EP US); **F25B 41/20** (2021.01 - EP US); **F25B 49/02** (2013.01 - EP); **F25B 2400/16** (2013.01 - EP); **F25B 2600/0261** (2013.01 - EP); **F25B 2600/2519** (2013.01 - EP)

Citation (search report)

- [X1] EP 1337793 A1 20030827 - COLIN PATRICK [FR], et al
- [X1] US 4196595 A 19800408 - SHAW DAVID N [US]
- [X1] US 5040376 A 19910820 - UENO KIYOTAKA [JP]
- [X1] US 2014260358 A1 20140918 - LEETE KLINT E [US], et al

Cited by
IT201800007108A1; CN112400088A; US11624538B2; WO2020012348A1

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)
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