

Title (en)
A METHOD FOR CONTROLLING A CHECK VALVE IN A REFRIGERATION SYSTEM

Title (de)
VORRICHTUNG ZUR DÄMPFUNG VON SCHWINGUNGEN IN EINEM KÜHLSYSTEM

Title (fr)
APPAREIL POUR AMORTIR LES VIBRATIONS DANS UN SYSTÈME DE RÉFRIGÉRATION

Publication
EP 4202324 A1 20230628 (EN)

Application
EP 23156551 A 20210421

Priority

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- EP 21169588 A 20210421

Abstract (en)
An apparatus for dampening vibrations in a refrigeration system (100) comprises: a check valve (3) operatively connectable between an economizer inlet (13) of a compressor (1) and the economizer branch (2), the check valve (3) including a housing (302) and a shutter (301) movable within the housing (302); a first bypass branch (31), having a first end (31A) connectable to the refrigeration circuit to receive a first flow of the refrigerant fluid, and a second end (31B) connected to the check valve (3) on a first side of the shutter (301A), a second bypass branch (32), having a first end (32A) connectable to the refrigeration circuit to receive a second flow of the refrigerant fluid, and a second end (32B) connected to the economizer branch (2), wherein the shutter (301) is movable by effect of a pressure difference between the first side (301A) of the shutter (301), and the second side (301B) of the shutter (301).

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Citation (applicant)
WO 2020084545 A1 20200430 - TURBOALGOR S R L [IT]

Citation (search report)

- [A] WO 2020084545 A1 20200430 - TURBOALGOR S R L [IT]
- [A] WO 2006118573 A1 20061109 - CARRIER CORP [US], et al
- [A] WO 2015029421 A1 20150305 - DENSO CORP [JP]

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