

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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DOCDB simple family (publication)  
**EP 3929508 A1 20211229; EP 3929508 B1 20230419**; EP 4202324 A1 20230628; EP 4202324 B1 20240605; ES 2944473 T3 20230621

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