Title (en)

AUTOMATIC TRIPPING CRYO-HEAT FLOW SWITCH

Title (de)

SELBSTAUSLÖSENDER KRYO-WÄRMESTROMSCHALTER

Title (fr)

COMMUTATEUR FROID-CHAUD AUTOMATIQUE

Publication

EP 1029260 A1 20000823 (DE)

Application

EP 99947238 A 19990716

Priority

- DE 9902232 W 19990716
- DE 19835305 A 19980805

Abstract (en)

[origin: DE19835305A1] The invention relates to an automatic tripping cryo-heat flow switch which is especially used in cooling systems in which a redundancy operation is required. The aim of the invention is to produce an automatic tripping cryo-heat flow switch which, with a construction that is as simple as possible, enables a reliable maintenance-free mode of operation, and thus guaranteeing an automatic switching connection between the heat sink and the application to be cooled. According to the invention, an outer hollow cylinder (1) is provided which is connected to the heat sink (9), and an inner body (2) is provided which is coaxially arranged with regard to said hollow cylinder and which is connected to the application (7) to be cooled. When the heat sink (9) is switched off, a concentric annular gap (4) which is fixed by spacers is located between the hollow cylinder (1) and the inner body (2). The linear thermal expansion factor of the outer cylinder (1) is larger than that of the inner body (2).

IPC 1-7

G05D 23/01; F25D 19/00

IPC 8 full level

B64G 1/50 (2006.01); **F25D 19/00** (2006.01); F25B 9/14 (2006.01)

CPC (source: EP US)

B64G 1/50 (2013.01 - EP US); **B64G 1/506** (2013.01 - EP US); **F25D 19/006** (2013.01 - EP US); F25B 9/14 (2013.01 - EP US); F25B 2400/06 (2013.01 - EP US); F28F 2013/008 (2013.01 - EP US)

Citation (search report)

See references of WO 0008536A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

DE 19835305 A1 20000210; EP 1029260 A1 20000823; US 6305174 B1 20011023; WO 0008536 A1 20000217

DOCDB simple family (application)

DE 19835305 A 19980805; DE 9902232 W 19990716; EP 99947238 A 19990716; US 50984800 A 20000403