Title (en)

SAFETY DEVICE FOR CUTTING OFF GAS PIPELINES

Title (de)

SICHERHEITSEINRICHTUNG ZUM ABSPERREN VON GASFÜHRENDEN LEITUNGSSYSTEMEN

Title (fr)

DISPOSITIF DE SECURITE POUR FERMER DES CANALISATIONS TRANSPORTANT DU GAZ

Publication

EP 1097326 A2 20010509 (DE)

Application

EP 99932853 A 19990708

Priority

- DE 19831283 A 19980713
- EP 9904808 W 19990708

Abstract (en)

[origin: WO0004310A2] The invention relates to a thermal security device for cutting off gas pipelines, wherein gas transfer is prevented by said safety device when temperature increases in the section of the gas pipeline placed downstream from said security device, especially when connected gas apparatuses are in a closed position. The aim of the invention is to maintain production costs and dimensions at a level as low as possible. The inventive device comprises a check valve which prevents back flow from the gas pipeline which is placed downstream from said device. The inventive device also comprises a pressure sensitive element which is actuated by the pressure in the pipeline placed downstream from said safety device. Said pressure sensitive element is coupled to a cut-off valve in such a way that when pressure increases in the downstream pipeline said valve prevents gas from flowing into the pipeline. The inventive safety device is used to cut off automatically gas pipelines when temperature increases in an unacceptable way in the section of the pipeline which is placed downstream from said safety device.

IPC 1-7

F16K 1/00

IPC 8 full level

F16K 17/38 (2006.01)

CPC (source: EP US)

F16K 17/38 (2013.01 - EP US); **F16K 17/386** (2013.01 - EP US); Y10T 137/1963 (2015.04 - EP US); Y10T 137/2012 (2015.04 - EP US); Y10T 137/7724 (2015.04 - EP US); Y10T 137/7737 (2015.04 - EP US); Y10T 137/88054 (2015.04 - EP US)

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)

WO 0004310 A2 20000127; **WO 0004310 A3 20000608**; BR 9912048 A 20010502; CA 2337410 A1 20000127; CZ 200120 A3 20010815; DE 19831283 C1 20000224; EP 1097326 A2 20010509; HU P0103970 A2 20020228; HU P0103970 A3 20020328; JP 2002520563 A 20020709; KR 20010053510 A 20010625; PL 346128 A1 20020128; TR 200100040 T2 20010521; US 6550495 B1 20030422

DOCDB simple family (application)

EP 9904808 W 19990708; BR 9912048 A 19990708; CA 2337410 A 19990708; CZ 200120 A 19990708; DE 19831283 A 19980713; EP 99932853 A 19990708; HU P0103970 A 19990708; JP 2000560387 A 19990708; KR 20017000510 A 20010112; PL 34612899 A 19990708; TR 200100040 T 19990708; US 74367001 A 20010110