

Title (en)

METHOD FOR EXTINGUISHING A FLAME FRONT AND EXTINGUISHING DEVICE

Title (de)

VERFAHREN ZUM LÖSCHEN EINER FLAMMENFRONT UND LÖSCHVORRICHTUNG

Title (fr)

PROCÉDÉ D'EXTINCTION D'UN FRONT DE FLAMME ET DISPOSITIF D'EXTINCTION

Publication

EP 3578232 A1 20191211 (DE)

Application

EP 19173939 A 20190510

Priority

DE 102018113770 A 20180608

Abstract (en)

[origin: US2019374801A1] A flame front in a gas pipeline is extinguished by introducing an extinguishing agent at an overpressure at an extinguishing zone of the pipeline. Using an overpressure provides a better and finer atomization of the extinguishing agent, and permits a greater amount of the extinguishing agent to be provided in the extinguishing zone per unit time. In addition, a sealing fluid is introduced at sealing zone of the pipeline. Gas flowing through the pipeline must flow through the sealing fluid in the sealing zone. Preferably, movement of a flame front from one side of the sealing zone to the other side of the sealing zone is prevented or reduced by the sealing fluid.

Abstract (de)

Die Erfindung betrifft ein Verfahren zum Löschen einer Flammenfront in einer Gasleitung 2, wobei das Verfahren die Schritte aufweist:(a) Einleiten eines Löschmittels unter einem Überdruck in einen Löschbereich L der Gasleitung 2, und zudem(b) Einleiten einer Sperrflüssigkeit in einen Sperrbereich S der Gasleitung 2, sodass die Sperrflüssigkeit derart in dem Sperrbereich S verbleibt, dass ein durch die Gasleitung 2 strömendes Gas in dem Sperrbereich S durch die Sperrflüssigkeit strömen muss.

IPC 8 full level

A62C 3/06 (2006.01); **A62C 4/02** (2006.01)

CPC (source: CN EP US)

A62C 2/04 (2013.01 - US); **A62C 3/065** (2013.01 - EP); **A62C 4/02** (2013.01 - CN EP); **A62C 35/023** (2013.01 - US); **A62C 35/11** (2013.01 - US); **A62C 35/68** (2013.01 - US); **A62C 37/04** (2013.01 - CN US); **A62C 3/00** (2013.01 - US)

Citation (search report)

- [XYI] CN 105498117 A 20160420 - WANG YUWEI
- [XI] US 6318475 B1 20011120 - SERAGNOLI GIORDANO [IT]
- [XYI] CN 202876161 U 20130417 - SHENYANG BRANCH CHINA COAL RES INST

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)

EP 3578232 A1 20191211; **EP 3578232 B1 20220928**; CN 110575633 A 20191217; CN 110575633 B 20220614; DE 102018113770 A1 20191212; US 11602653 B2 20230314; US 2019374801 A1 20191212

DOCDB simple family (application)

EP 19173939 A 20190510; CN 201910476545 A 20190603; DE 102018113770 A 20180608; US 201916432030 A 20190605