

Title (en)
Flame arrester.

Title (de)
Flammenrückschlagsicherung.

Title (fr)
Piège à flammes.

Publication
EP 0375455 A2 19900627 (EN)

Application
EP 89313508 A 19891222

Priority
CA 587033 A 19881223

Abstract (en)
A flame arrester (1) for a pipe line (5) is provided comprising a detonation attenuator (4) mounted within an arrester chamber (13) between a quenching element (3) and a backflash flame inlet (12). The attenuator (4) is generally cup-shaped, aligned with the inlet, of greater diameter than the inlet but of lesser diameter than the arrester chamber, and is positioned close to the inlet so as to circumscribe it. The major portion of the high pressure central portion of a detonation wave generated by a backflash is received by the cup and reflected back into the pipe. Some of the detonation wave passes around the cup and impinges on the arrester element - however it has been delayed sufficiently to ensure complete quenching of the flame front in the element.

IPC 1-7
A62C 4/02

IPC 8 full level
A62C 4/02 (2006.01)

CPC (source: EP)
A62C 4/02 (2013.01)

Cited by
EP3381520A1; DE19957837A1; DE19957837C2; EP0765675A3; AT408839B; US5165484A; DE102014116149A1; CN107073306A; EP0951922A3; CN110013631A; DE102018116576B3; DE10112957B4; CN110393876A; WO0141876A2; EP1044703A2; US10537760B2; DE19957836B4; DE4438797C1; EP3381519A1; WO0056406A1; WO0137933A3; WO03022363A1; WO2016070874A1; WO0137933A2; US10286241B2; EP1240923A1; WO9422536A1; WO0141876A3; US7905244B2; US10543387B2

Designated contracting state (EPC)
BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0375455 A2 19900627; EP 0375455 A3 19900829; CA 1311409 C 19921215

DOCDB simple family (application)
EP 89313508 A 19891222; CA 587033 A 19881223