

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

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