

Title (en)

Method to control deflagration while extinguishing a combustion flame

Title (de)

Verfahren zur Unterdrückung von Verpuffung während des Löschens einer Verbrennungsflamme

Title (fr)

Procédé de suppression de la déflagration à l'extinction d'une flamme de combustion

Publication

**EP 0895026 B1 20020515 (FR)**

Application

**EP 98401911 A 19980727**

Priority

FR 9709585 A 19970728

Abstract (en)

[origin: EP0895026A1] The system for use when extinguishing a flame on a gas torch fed with fuel and oxidant gases, involves maintaining the gas flow at a mean speed of about (22) m.s-1 or above by injecting a compensating gas, preferably an oxidant gas, in advance of the nozzle. The injection of the compensating gas is started after halting the feed of the fuel and/or oxidant gas to the nozzle, with a delay of not more than (1) - (5) sec, and preferably below (0.5) sec, between the two operations. The fuel gas is acetylene, 'Crylene' (RTM), 'Tetrene' (RTM) or propana, and the oxidant gas is oxygen or air. The torch used has fuel and oxidant gas feed pipes (1',2') and a system (8,8',9) for injecting a compensating gas in advance of the nozzle (7). The injection system is situated after the fuel gas regulating system (3,4,5), and in a variant can incorporate a by-pass pipe between the fuel gas and oxidant gas feed pipes.

IPC 1-7

**F23D 14/82**; **F23D 14/46**

IPC 8 full level

**F23D 14/46** (2006.01); **F23D 14/82** (2006.01)

CPC (source: EP)

**F23D 14/465** (2013.01); **F23D 14/82** (2013.01)

Cited by

FR2793494A1; EP1113222A1; FR2803021A1; US6451245B2; WO0070000A1

Designated contracting state (EPC)

BE DE ES FR GB IT NL

DOCDB simple family (publication)

**EP 0895026 A1 19990203**; **EP 0895026 B1 20020515**; DE 69805372 D1 20020620; DE 69805372 T2 20021121; ES 2176932 T3 20021201; FR 2766556 A1 19990129; FR 2766556 B1 19990903

DOCDB simple family (application)

**EP 98401911 A 19980727**; DE 69805372 T 19980727; ES 98401911 T 19980727; FR 9709585 A 19970728