

Title (en)  
Flame detection apparatus and method.

Title (de)  
Flammendetektionsvorrichtung und -verfahren.

Title (fr)  
Procédé et dispositif de détection de flamme.

Publication  
**EP 0388065 A2 19900919 (EN)**

Application  
**EP 90302390 A 19900306**

Priority  
GB 8906235 A 19890317

Abstract (en)  
Apparatus and methods are described for the detection of the presence of a flame (10), the apparatus including circuit means for applying an alternating voltage to a flame probe (2) such that the alternating voltage is partially rectified in the presence of a flame (10) at the probe (2) resulting in the development of a DC voltage component. The DC voltage component causes the accumulation of a corresponding electrical charge in a storage element (18), the apparatus includes means (120,36) for periodically releasing the charge. An optical coupling means (40) is responsive to the released charge to initiate a control signal in a control signal generator (130), the control signal indicating detection of the flame (10).

IPC 1-7  
**F23N 5/12**

IPC 8 full level  
**F23N 5/12** (2006.01)

CPC (source: EP)  
**F23N 5/123** (2013.01); **F23N 2223/20** (2020.01); **F23N 2229/00** (2020.01); **F23N 2229/12** (2020.01)

Cited by  
EP1211460A3; EP0908679A1; EP0634611A1; EP0525345A1; DE4122636C2; US6501383B1; WO9919672A1

Designated contracting state (EPC)  
BE DE FR NL

DOCDB simple family (publication)  
**EP 0388065 A2 19900919; EP 0388065 A3 19910424**; GB 2230632 A 19901024; GB 8906235 D0 19890504; GB 9004948 D0 19900502

DOCDB simple family (application)  
**EP 90302390 A 19900306**; GB 8906235 A 19890317; GB 9004948 A 19900306