

Title (en)  
Fire alarm

Title (de)  
Flammenmelder

Title (fr)  
Détecteur de flammes

Publication  
**EP 2251846 B1 20170405 (DE)**

Application  
**EP 09006433 A 20090513**

Priority  
EP 09006433 A 20090513

Abstract (en)  
[origin: EP2251846A1] The fire alarm has a UV radiation sensor (8.1), infrared (IR) radiation sensor, a UV radiation source (9.1), IR radiation source and an optical window (7) arranged in a housing. A reflector protection cage or ring (2.1) is arranged over the optical window for protecting the optical window against mechanical effects. The protection cage or ring permits penetration of UV and IR radiations (16) through the optical window and reflects the UV and IR radiations at an inner side from an interior of the housing, where the protection cage or ring is exchangeable.

IPC 8 full level  
**G08B 17/12** (2006.01); **G08B 29/14** (2006.01)

CPC (source: EP US)  
**G08B 17/113** (2013.01 - EP US); **G08B 17/12** (2013.01 - EP US); **G08B 29/043** (2013.01 - EP US)

Cited by  
DE102015223362A1; CN117173850A; DE102016208357A1; WO2017194367A1; US10467874B2; US11821757B2

Designated contracting state (EPC)  
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 SE SI SK TR

DOCDB simple family (publication)  
**EP 2251846 A1 20101117; EP 2251846 B1 20170405**; CN 101894442 A 20101124; CN 101894442 B 20140723; RU 2010119163 A 20111120; RU 2538940 C2 20150110; US 2010289650 A1 20101118; US 8400314 B2 20130319

DOCDB simple family (application)  
**EP 09006433 A 20090513**; CN 201010228100 A 20100513; RU 2010119163 A 20100512; US 80029810 A 20100512