

Title (en)

SIMULATED ELECTRIC FIRE HAVING A LIGHT SOURCE GENERATING MULTIPLE COLOURS

Title (de)

KUNSTELEKTROKAMIN MIT MEHRERE FARBEN ERZEUGENDER LICHTQUELLE

Title (fr)

FEU ÉLECTRIQUE SIMULÉ ASSOCIÉ À UNE SOURCE DE LUMIÈRE GÉNÉRANT DE MULTIPLES COULEURS

Publication

EP 2097677 A2 20090909 (EN)

Application

EP 07822846 A 20071123

Priority

- EP 2007062754 W 20071123
- GB 0623465 A 20061124

Abstract (en)

[origin: GB2444074A] A simulated fire has a light source 190 that generates multiple colours which give a coloured output which is then incident on a fire simulation means. In some embodiments multiple colours are output from one or more multi-coloured LEDs or from an array of LEDs of different colours to generate an image of a fire on a screen (180, fig 1). The height or angle of the light source 190 or the surface onto which it is directed, may be fixed (figs 2a,2b,6) or adjustable (figs 1,2,3). A fuel bed 110 may be illuminated by the light source or an additional light source 170. The screen may have a diffusing surface and a reflecting surface. The flame effect may include ribbons (186, fig 1) and a fan 188; a mask; a rotating foil rotisserie (fig 3); a rotating filter (645, fig 6); or a rotating drum with LEDs (715, fig 7) on its surface. In addition to the epoxy casino encapsulating the LED, a secondary lens or light shaper with ridges (426, fig 4) or an array of micro-lens (fig 5) may be provided.

IPC 8 full level

F24C 7/00 (2006.01); **F21S 10/04** (2006.01)

CPC (source: EP GB US)

F21S 10/04 (2013.01 - EP); **F24C 7/004** (2013.01 - EP GB US); **F21W 2121/00** (2013.01 - EP); **F21Y 2115/10** (2016.08 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

GB 0623465 D0 20070103; **GB 2444074 A 20080528**; **GB 2444074 B 20091118**; EP 2097677 A2 20090909; WO 2008062061 A2 20080529; WO 2008062061 A3 20090205

DOCDB simple family (application)

GB 0623465 A 20061124; EP 07822846 A 20071123; EP 2007062754 W 20071123