

Title (en)

Flame simulating assembly and components therefor

Title (de)

Vorrichtung zum Simulieren von Flammen und Bauelemente dafür

Title (fr)

Agencement simulant des flammes et ses constituants

Publication

EP 1199525 A3 20020807 (EN)

Application

EP 01128774 A 19970430

Priority

- CA 2175442 A 19960430
- EP 97919227 A 19970430
- US 80146997 A 19970218

Abstract (en)

[origin: WO9741393A1] An electric fireplace (12) is provided having an improved flame simulating apparatus. The flame simulating apparatus includes a light source (30), a flame effect element (58) for transmitting light to produce a flame effect, and a flicker element (62, 64) having reflective strips for reflecting light from the light source for subsequent reflection by the flame effect element. An alternate flame effect element for reflecting light to produce a flame effect is also provided. A screen having a partially reflecting surface and a diffusing surface is positioned with the flame effect element extending proximate to the diffusing surface. An alternate screen is provided having a diffusing region through its thickness. A fuel bed (26) is positioned immediately adjacent to the partially reflecting surface of the screen to produce an image of the fuel bed (26) on the screen with the image of moving flames appearing to emanate between the fuel bed and its reflected image. The screen may also be given a non-planar diffusing region such that the image of moving flames appears to emanate from behind the reflected image of the fuel bed. A fire wall simulating apparatus is also provided to provide a reflection of a simulated fire wall on the partially reflecting surface which appears to be a fire wall behind the fuel bed.

IPC 1-7

F24C 7/00

IPC 8 full level

F24C 15/06 (2006.01); **F21S 10/04** (2006.01); **F24C 7/00** (2006.01)

CPC (source: EP)

F21S 10/04 (2013.01); **F24C 7/004** (2013.01)

Citation (search report)

- [X] US 4965707 A 19901023 - BUTTERFIELD BRIAN J [IE]
- [X] GB 1443772 A 19760728 - TI SUNHOUSE LTD
- [PX] GB 2298073 A 19960821 - BITECH ENG [IE]

Cited by

US10024507B2; US10352517B2; US10578264B2; US10788179B2; US10808899B2

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9741393 A1 19971106; AT E219229 T1 20020615; AT E276488 T1 20041015; AT E278159 T1 20041015; AU 2377797 A 19971119; AU 734355 B2 20010614; CN 100339638 C 20070926; CN 1201110 C 20050511; CN 1306209 C 20070321; CN 1410703 A 20030416; CN 1410705 A 20030416; CN 1492180 A 20040428; DE 69713322 D1 20020718; DE 69713322 T2 20030130; DE 69730757 D1 20041021; DE 69730757 T2 20050210; DE 69731011 D1 20041104; DE 69731011 T2 20050210; EP 0897514 A1 19990224; EP 0897514 B1 20020612; EP 1199524 A2 20020424; EP 1199524 A3 20020717; EP 1199525 A2 20020424; EP 1199525 A3 20020807; EP 1199525 B1 20120808; EP 1199526 A2 20020424; EP 1199526 A3 20020717; EP 1199526 B1 20040929; EP 1199527 A2 20020424; EP 1199527 A3 20020717; EP 1199527 B1 20040915; JP 2001509873 A 20010724; JP 3575768 B2 20041013; NZ 333010 A 20000526; PL 183547 B1 20020628; PL 329604 A1 19990329

DOCDB simple family (application)

CA 9700299 W 19970430; AT 01128775 T 19970430; AT 01128776 T 19970430; AT 97919227 T 19970430; AU 2377797 A 19970430; CN 02148090 A 19970430; CN 02148091 A 19970430; CN 02148092 A 20021025; DE 69713322 T 19970430; DE 69730757 T 19970430; DE 69731011 T 19970430; EP 01128773 A 19970430; EP 01128774 A 19970430; EP 01128775 A 19970430; EP 01128776 A 19970430; EP 97919227 A 19970430; JP 53843297 A 19970430; NZ 33301097 A 19970430; PL 32960497 A 19970430