Title (en)

LONG LIFE HALOGEN CYCLE INCANDESCENT LAMP AND GLASS ENVELOPE COMPOSITION

Title (de)

LANGLEBENDE HALOGENIDZYKLUS-GLÜHLAMPE UND GLASKOLBENZUSAMMENSETZUNG

Title (fr)

LAMPE A INCANDESCENCE A CYCLE HALOGENE LONGUE DUREE ET COMPOSITION DE SON ENVELOPPE DE VERRE

Publication

EP 1012873 A1 20000628 (EN)

Application

EP 98944815 A 19980910

Priority

- DE 19747355 A 19971027
- US 9818745 W 19980910
- US 5871297 P 19970912
- US 94856597 A 19971010

Abstract (en)

[origin: WO9914794A1] A long life, halogen cycle, incandescent lamp (30) for operation in excess of 85 volts. The lamp comprises a transparent glass envelope (34) having sealed therewithin a tungsten filament (45); a pair of electrical lead-ins (42, 44) connecting the filament and extending exteriorly of the envelope for connection to a supply voltage greater than 100 V; and a fill gas within the envelope, including a halogen, at a pressure of at least three atmospheres. The envelope is constructed of a five component alkaline earth aluminosilicate glass having a composition consisting essentially of, in weight percent from > 58 to about 64 % SiO_2, from about 14 to about 17 % Al_2O_3; from 0 to about 1 % B_2O_3, from 1 to about 6 % MgO, from about 6 to about 12 % CaO, from about 7 to about 17 % BaO and from 0 to about 1.5 % ZrO_2.

IPC 1-7

H01K 1/50

IPC 8 full level

C03C 3/085 (2006.01); **C03C 3/093** (2006.01); **C03C 3/087** (2006.01); **C03C 3/089** (2006.01); **C03C 3/091** (2006.01); **H01J 61/30** (2006.01); **H01K 1/28** (2006.01); **H01K 1/32** (2006.01); **H01K 1/50** (2006.01)

CPC (source: EP)

C03C 3/087 (2013.01); **C03C 3/093** (2013.01); **C03C 3/11** (2013.01); **H01J 61/302** (2013.01); **H01K 1/28** (2013.01); **H01K 1/50** (2013.01); Y02B 20/00 (2013.01)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 9914794 A1 19990325; **WO 9914794 A9 20050818**; AU 9226598 A 19990405; CA 2301579 A1 19990325; CA 2301579 C 20081202; CA 2625915 A1 19990325; CA 2625915 C 20090623; CN 1269910 A 20001011; CN 1316555 C 20070516; EP 1012873 A1 20000628; EP 1012873 A4 20090408; EP 2236470 A1 20101006; EP 2236470 B1 20111109; EP 2374765 A1 20111012; HK 1031950 A1 20010629; JP 2001516952 A 20011002; JP 4323091 B2 20090902

DOCDB simple family (application)

US 9818745 W 19980910; AU 9226598 A 19980910; CA 2301579 A 19980910; CA 2625915 A 19980910; CN 98808908 A 19980910; EP 10005570 A 19980910; EP 11005451 A 19980910; EP 98944815 A 19980910; HK 01102401 A 20010403; JP 2000512238 A 19980910