

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<sub>2</sub>, from about 14 to about 17 % Al<sub>2</sub>O<sub>3</sub>; from 0 to about 1 % B<sub>2</sub>O<sub>3</sub>, 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<sub>2</sub>.

IPC 1-7

**H01K 1/50**

IPC 8 full level

**C03C 3/085** (2006.01); **C03C 3/087** (2006.01); **C03C 3/089** (2006.01); **C03C 3/091** (2006.01); **C03C 3/093** (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)

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