

Title (en)

THIN CONFIGURATION FLAT FORM VACUUM-SEALED ENVELOPE

Publication

**EP 0495068 A4 19921119 (EN)**

Application

**EP 91914809 A 19910719**

Priority

US 56225190 A 19900803

Abstract (en)

[origin: WO9202947A1] A thin configuration flat form glass envelope for use in vacuum tubes, incandescent lamps, fluorescent lamps and other electronic devices having elements which operate in a partial vacuum. In certain embodiments the envelope is comprised of a flat wall plate (14) and shaped wall plate (12) having a plurality of spaced-apart ridges (16, 18, 20) which project toward and in juxtaposition with the flat plate (14). The side walls of the ridges converge at a predetermined included angle and merge at a sharp apex that contacts the flat plate along a narrow path which produces minimal degradation of brightness uniformity across the envelope when light is transmitted through the shaped plate. Between the ridges a plurality of channels (28, 30) are formed containing an ionizable medium which is energized by electrodes to produce UV light which in turn is absorbed by a phosphor coating to emit visible light. In other embodiments the envelope is formed by two shaped plates joined together in facing relationship to form the channels.

IPC 1-7

**H01J 61/30; H01K 1/28**

IPC 8 full level

**H01J 5/02** (2006.01); **H01J 9/24** (2006.01); **H01J 61/30** (2006.01); **H01K 1/28** (2006.01)

CPC (source: EP KR)

**H01J 5/02** (2013.01 - EP); **H01J 61/30** (2013.01 - KR); **H01K 1/28** (2013.01 - EP)

Citation (search report)

- [A] EP 0222928 A1 19870527 - GTE SYLVANIA INC [DE]
- [A] GB 2217905 A 19891101 - AC DC HOLDINGS LIMITED [GB]
- [AD] US 4767965 A 19880830 - YAMANO MASARU [JP], et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 13, no. 450 (E-830)(3798) 11 October 1989 & JP-A-1 175 160 ( NIPPON SHEET GLASS CO LTD ET AL. ) 11 July 1989
- [A] PATENT ABSTRACTS OF JAPAN vol. 13, no. 166 (E-746)(3514) 20 April 1989 & JP-A-64 000 639 ( STANLEY ELECTRIC CO LTD ) 5 January 1989
- See references of WO 9202947A1

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DOCDB simple family (application)

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