

Title (en)

Pumping tube for flat display panel

Title (de)

Pumprohr für flache Anzeigevorrichtung

Title (fr)

Tube d'évacuation pour panneau d'affichage plat

Publication

**EP 1174900 A1 20020123 (EN)**

Application

**EP 00402030 A 20000717**

Priority

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Abstract (en)

The invention proposes a pumping tube shape which makes it possible, on the one hand, to guide the pumping tube (23) when positioning the latter on the tile (25) and when producing the seal (24) by heating and, on the other hand, to prevent runs inside the pumping hole. Moreover, the pumping tube (23) of the invention makes it possible to produce an almost ideally distributed homogeneous seal (24), thereby ensuring that the latter seals reliably. The invention also relates to a plasma display panel having the pumping tube (23) of the invention. <IMAGE>

IPC 1-7

**H01J 7/22**; **H01J 9/38**; **H01J 17/49**

IPC 8 full level

**H01J 7/22** (2006.01); **H01J 9/385** (2006.01); **H01J 11/10** (2012.01); **H01J 11/54** (2012.01); **H01J 17/16** (2006.01); **H01J 17/49** (2006.01)

CPC (source: EP)

**H01J 7/22** (2013.01); **H01J 9/385** (2013.01); **H01J 11/10** (2013.01); **H01J 11/54** (2013.01)

Citation (search report)

- [XY] US 3821584 A 19740628 - SCOVRONEK J
- [Y] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 05 31 May 1999 (1999-05-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 001, no. 119 (E - 052) 11 October 1977 (1977-10-11)
- [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 451 (E - 0984) 27 September 1990 (1990-09-27)
- [A] PATENT ABSTRACTS OF JAPAN vol. 013, no. 235 (E - 766) 30 May 1989 (1989-05-30)

Cited by

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