

## Title (en)

Short arc high pressure discharge lamp for use in digital projection techniques

## Title (de)

Kurzbogen-Hochdruckentladungslampe für digitale Projektionstechniken

## Title (fr)

Lampe à décharge à haute pression et à arc court utilisée pour la projection d'images codées sous forme numérique

## Publication

**EP 1217644 A1 20020626 (DE)**

## Application

**EP 01127159 A 20011115**

## Priority

DE 10063938 A 20001220

## Abstract (en)

[origin: CA2365357A1] In a short-arc high-pressure discharge lamp (1) with a xenon fill for digital projection purposes, the separation L in mm of the two mutually facing end sections (6a, 8c) of the cathode (6) and the anode (8) when the lamp is hot is given by the relationship  $0.8 \times P \leq L \leq 1 \times P + 1$ , where P is the lamp power in kW. Further, the diameter D of the circular-cylindrical middle section (8a) of the anode (8) in mm obeys the relationship  $D \geq 2.1 \times L + 10$ .

## Abstract (de)

Bei einer Kurzbogen-Hochdruckentladungslampe (1) mit einer Xenonfüllung für digitale Projektionszwecke ist der Abstand L in mm der beiden einander zugewandten Endabschnitte (6a, 8c) von Kathode (6) und Anode (8) im Heißzustand der Lampe durch die Relation  $0,8 \times P \leq L \leq 1 \times P + 1$  gegeben, wobei P die Lampenleistung in kW ist. Außerdem folgt der Durchmesser D des kreiszylindrischen Mittelabschnitts (8a) der Anode (8) in mm der Relation  $D \geq 2,1 \times L + 10$ . <IMAGE>

## IPC 1-7

**H01J 61/073**

## IPC 8 full level

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**H01J 61/073** (2013.01 - EP US); **H01J 61/86** (2013.01 - KR)

## Citation (applicant)

DE 20005764 U1 20000608 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE]

## Citation (search report)

- [A] EP 0901151 A1 19990310 - MATSUSHITA ELECTRONICS CORP [JP]
- [A] EP 0704881 A2 19960403 - USHIO ELECTRIC INC [JP]
- [A] DE 3716485 C1 19881124 - HERAEUS GMBH W C
- [A] DE 2122122 A1 19711125 - WESTINGHOUSE ELECTRIC CORP
- [A] EP 0973187 A1 20000119 - USHIO ELECTRIC INC [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 01 31 January 1996 (1996-01-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 08 29 August 1997 (1997-08-29)
- [A] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 08 29 August 1997 (1997-08-29)
- [A] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 02 29 February 2000 (2000-02-29)
- [A] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 10 31 October 1997 (1997-10-31)

## Cited by

EP2390902A1; DE102010003381A1; WO2009121400A1; DE102010028472A1; DE102010030992A1; WO2012004166A1

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## DOCDB simple family (application)

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