

Title (en)

Mercury-free metal halide-lamp

Title (de)

Quecksilberfreie Metallhalogenidlampe

Title (fr)

LAMPE D'HALOGENURE METALLIQUE SANS MERCURE

Publication

**EP 1037257 A2 20000920 (EN)**

Application

**EP 00302009 A 20000313**

Priority

- JP 6473299 A 19990311
- JP 21683099 A 19990730

Abstract (en)

A lamp voltage corresponding to a lamp comprising mercury is obtained by comprising at least a rare gas, a trivalent of indium halide and a thallium iodide in an arc tube 1, and thereby a long life can be accomplished. In addition, when an enclosed amount of the trivalent of indium halide is approximately 90.0mg/cc or less per unit internal volume of the arc tube and the rare gas is xenon gas with an enclosed pressure of 2.5MPa or less, the luminous flux and the light colour most appropriate for a light source for motor vehicle headlights are obtained. Furthermore, when the thallium iodide is enclosed, the lamp voltage can be made even higher and the luminous flux can be increased. <IMAGE>

IPC 1-7

**H01J 61/12**; **H01J 61/82**

IPC 8 full level

**H01J 61/12** (2006.01); **H01J 61/18** (2006.01); **H01J 61/82** (2006.01)

CPC (source: EP KR)

**H01J 61/12** (2013.01 - EP); **H01J 61/18** (2013.01 - KR); **H01J 61/827** (2013.01 - EP); **H01J 61/34** (2013.01 - EP)

Cited by

WO2004025691A1; EP1288998A1; DE10307067B3; DE10307067B8; US6670765B2; US6608444B2; US7583028B2; WO2004055862A3; US8030847B2; USRE45342E; US7642722B2

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

**EP 1037257 A2 20000920**; **EP 1037257 A3 20010207**; CN 1284736 A 20010221; KR 20010006751 A 20010126; TW 446988 B 20010721

DOCDB simple family (application)

**EP 00302009 A 20000313**; CN 00108328 A 20000310; KR 20000011465 A 20000308; TW 89104277 A 20000309