

Title (en)
HIGH PRESSURE METAL HALIDE LAMP WITH XENON BUFFER GAS

Publication
EP 0183247 A3 19881019 (EN)

Application
EP 85115070 A 19851127

Priority
US 67636784 A 19841129

Abstract (en)
[origin: EP0183247A2] High pressure xenon is used as a buffer gas in place of mercury in a high pressure sodium iodide arc discharge lamp. Xenon buffer gas has a more favorable influence than mercury on the sodium D-line spectrum and does not react with halides in the lamp fill. The use of xenon buffer gas increases the efficacy of the high pressure sodium iodide arc lamp.

IPC 1-7
H01J 61/12; **H01J 61/82**

IPC 8 full level
H01J 61/16 (2006.01); **H01J 61/12** (2006.01); **H01J 61/20** (2006.01); **H01J 61/82** (2006.01)

CPC (source: EP)
H01J 61/125 (2013.01); **H01J 61/825** (2013.01)

Citation (search report)

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- [X] APPLIED OPTICS, vol. 10, no. 11, November 1971, pages 2517-2520, New York, US; C.F. GALLO: "Continuum emission spectra from long linear xenon discharge lamps with metallic halide additives"
- [X] JOURNAL OF THE OPTICAL SOCIETY OF AMERICA, vol. 54, no. 4, April 1964, pages 532-540, G.H. REILING: "Characteristics of mercury vapor-metallic iodide arc lamps"
- [A] PHILIPS TECHNICAL REVIEW, vol. 39, no. 8, 1980, Eindhoven, NL; C.A.J. JACOBS et al.: "A new generation of high-pressure sodium lamps"
- [A] PATENT ABSTRACTS OF JAPAN, vol. 6, no. 21 (E-93)[899], 6th February 1982; & JP-A-56 143 650 (TOKYO SHIBAURA DENKI K.K.) 09-11-1981
- [A] JOURNAL OF THE ILLUMINATING ENGINEERING SOCIETY, vol. 11, no. 4, July 1982, pages 231-240, New York, US; K. OTANI et al.: "A high pressure sodium lamp with improved color rendition"

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