

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.

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

IPC 8 full level  
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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"
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- [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"
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- [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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