

Title (en)  
IMPROVEMENTS IN OR RELATING TO HIGH PRESSURE SODIUM LAMPS

Publication  
**EP 0078105 A3 19831116 (EN)**

Application  
**EP 82304926 A 19820917**

Priority  
GB 8132443 A 19811028

Abstract (en)  
[origin: EP0078105A2] The invention provides an improved high pressure sodium lamp of nominally 70 watt rating operating at a lamp voltage V of substantially 70 - 130 volts in which for satisfactory life, efficacy and colour, for an arc tube of internal diameter d in the range 3.0 to 5.0mm, the sodium mole fraction x, in the range 0.63 - 0.8, and arc length l are determined by interpolation or extrapolation on the graph of Figure 3 or by the equation  $l = 4d + 11.76x + 0.25V - 16.4$

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**H01J 61/82**

IPC 8 full level  
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CPC (source: EP)  
**H01J 61/22** (2013.01); **H01J 61/825** (2013.01)

Citation (search report)  
• [A] US 3906272 A 19750916 - COLLINS BYRON R, et al  
• [A] JOURNAL OF ILLUMINATING ENGINEERING SOCIETY, vol. 10, no. 4, July 1981, pages 237-244, New York, USA., J.F. WAYMOUTH et al.: "Analysis of factors affecting efficacy of high pressure sodium lamps"

Cited by  
EP0837492A3; EP0081918A3

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DE FR GB NL

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**EP 0078105 A2 19830504; EP 0078105 A3 19831116**; JP S5880261 A 19830514

DOCDB simple family (application)  
**EP 82304926 A 19820917**; JP 17469782 A 19821006