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Improved metal halide lamp and lighting systems particularly suitable for architectural lighting.

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A metal halide lamp having a relatively high anticipated life and particularly suitable for architectural lighting is disclosed. The metal halide lamp has a double-ended arc tube serving as its light source. The arc tube has a halogen gas formed from vaporized metal halides along with a mercury vapor. The amount of mercury contained in the arc tube is selected to effectively establish an A.C. operating voltage in the range of about 100 volts to about 150 volts. The metal halide develops a vapor during the operation of the arc tube. The halide is selected from the group of metals consisting of sodium, scandium, thorium, and mixtures thereof. The halide is further selectable as a compound cadmium iodide. Further disclosed are various embodiments of illuminating lighting systems that provide beam patterns particularly suitable for illuminating a limestone building.



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
Y	US-A-3 852 630 (G.A. WESSELINK et al.) * Column 4, line 32 - column 7, line 27; figures 1,2 *	1,2,4	H 01 J 61/12 H 01 J 61/82
Y	US-A-3 948 793 (S. ANDERSON) * Summary; figure 3 *	1,4	
A	US-A-3 927 343 (L.B. BEIJER et al.) * Whole document *	1,4	
A	US-A-3 940 606 (T.M. LEMONS) * Column 3, line 4 - column 4, line 39; figures 1-3 *	6,7	
A	US-A-3 900 727 (H. HUTZ) * Column 5, line 54 - column 7, line 30; figures 1-6 *	6,7	TECHNICAL FIELDS SEARCHED (Int. Cl. 4) H 01 J 61/00 F 21 M 1/00 F 21 V 7/00
The present search report has been drawn up for all claims			
Place of search		Date of search	Examiner
THE HAGUE		28 June 1986	SARNEEL, T.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	