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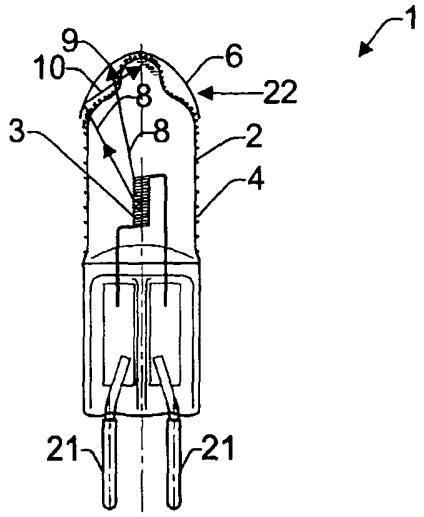
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(54) Title: LAMP AND LIGHTING UNIT WITH INTERFERENCE COATING AND BLOCKING DEVICE FOR IMPROVED UNIFORMITY OF COLOR TEMPERATURE



(57) Abstract: The invention relates to a non-automotive-headlight lamp (1) comprising a lighting element (3) and a transparent bulb (2), which is at least partly equipped with an interference coating (4) for e.g. changing the color or color temperature of the lamp (1), and to a lighting unit (15) comprising such a lamp (1) being mounted in a reflector (12). But the invention is also related to lighting units (15) where the interference coating (4) is not applied to the lamp (1) but to the reflector (12). In these lamps (1) or lighting units (15) light components (8) not appropriately filtered by the interference coating (4) lead to undesired wavelengths in the illumination beam and/or to a compromised color uniformity of the beam. Such light components (8) may stem from missing or insufficient filters on part of the lamp (1), from non-normal incidence of the rays (8) on the filter (4), and, in reflectors (12) with interference coating (4), from direct light (8) not hitting the reflector (12). The invention adds a blocking device (5, 6, 7) to the lamp (1) or lighting unit (15) to substantially prevent these light components (8) to enter the illumination beam. Whereas constructively similar blocking devices (5, 6, 7) are known from automotive headlight lamps for preventing glare their benefits in the context of interference coatings (4) were overlooked in the prior art.

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
H01J H01K F21V

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 168 417 A (GENERAL ELECTRIC COMPANY) 2 January 2002 (2002-01-02) figures 1,5 abstract	1-9,11
X	US 5 676 579 A (PARHAM ET AL) 14 October 1997 (1997-10-14) figures 6,14,16 column 1, lines 44-53	1-9,11
X	EP 0 702 396 A (OSRAM SYLVANIA INC) 20 March 1996 (1996-03-20) figures 1-6	1-9,11

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[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
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Name and mailing address of the ISA	Authorized officer
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Information on patent family members

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