March 2012

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Closing in on the individual publications – A new HIT display format

Since the DWPI reload in 2006 on STN individual publication information has been covered. Customers requested that a display format be provided selectively displaying the individual publication data having given rise to the retrieval. This format has now become available as the HITMEMBER display format for the DWPI database (files WPINDEX, WPIDS and WPIX). This display format comprises all data from the MEMBER format for all individual publications where HIT terms occur. An example may illustrate a possible user interaction.

=> s C03C0003-00+nt/epc and (((semi-conductor or semiconductor) (s) light (3A) source)\bi,bi\ex) (1) (composition or (comprise# (3A) component#))/clm
=> d ibib hitmemb

L8 ANSWER 1 OF 1 WPIX COPYRIGHT 2012 THOMSON REUTERS on STN
ACCESSION NUMBER: 2009-Q81916 [200980] WPIX Full-text
TITLE: White or primary coloured semiconductor light source material has an internal transmission of more than eighty percent
DERWENT CLASS: L01; L03; U11; X26
INVENTOR: BILHELREUM JABIN P; BRIX P; DIITEO G; GOEDEKE D; JIMON MONIKA R; KEULRAUDIA S; LIEBALD R; NAB P; NASS P; PETEO B; PETEO N; FICHLER-WILHELM S; RITTER S M; SABEURINA B; STOLTZ C; STOLZ C; WIMMER S; FICHLER-WILLIAM S; RITTER S M
PATENT ASSIGNEE: (ZEIS-C) SCHOTT AG
COUNTRY COUNT: 124
PATENT INFO ABRBR.: PATENT NO KIND DATE WEEK LA PG MAIN IPC
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WO 2009132840 A2 20091105 (200980)* DE 88(S)
WO 2009132840 A3 20091230 (201002) DE
DE 102008021438 A1 20091231 (201003) DE
EP 2274248 A2 201103119 (201106) DE
KR 2011003377 A 20110111 (201107) KO
TW 2010003997 A 20100116 (201119) ZH
CN 102076624 A 20110525 (201143) ZH
JP 2011518752 T 20110630 (201143) JA 66

Member(0005)
PI KR 2011003377 A 20110111 (201107) KO
TIEN The light source which comprises especially, the conversion material for white or the colored light source including the Semiconductor source of light, the manufacturing method thereof, and the conversion material

Member(0007)
PI CN 102076624 A 20110525 (201143) ZH
TIEN Conversion material, especially for a white or colored light source comprising a Semiconductor light source, method for producing the same and light source comprising said conversion material

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The invention relates to a conversion material, especially for a white or colored light source comprising a semiconductor light source as the primary light source, comprising a matrix glass which has, when used as a bulk material with a thickness \(d\) of approximately 1 mm, an internal transmittance \(t_i\) of more than 80% in the wavelength range of 350 to 800 nm and in the range in which the primary light source emits light, the sum of transmittance and remittance of the sintered matrix glass without lumiphor being at least more than 80% in the spectral range of 350 nm to 800 nm and in the spectral range in which the primary light source emits light.

**Claim 1**
A conversion material, wherein the conversion material is specifically used for white light source or coloured light source having a conductor light source which is taken as the primary light source; the conversion material comprises a matrix glass which is taken as a bulk material; in allusion to the matrix glass whose thickness \(d\) is 1 mm, the matrix glass has more than 80% of transmittance \(t_i\) in the wavelength range of 350-800 nm and in the primary light source illuminating region; the matrix glass is formed via forming the matrix glass powder into a sintering body, the particle size \(d_{10}\) of the matrix glass powder is greater than 0.7 micron; \(d_{50}\) is not smaller than 3 microns, and \(d_{90}\) is not greater than 150 microns.

**Claim 11**
The conversion material according to any one of claims mentioned above, comprising lanthanum borosilicate glass having zinc, aluminium-borosilicates with yttrium and alkaline earth silicates.

**Claim 12**
The conversion material according to any one of claims mentioned above, wherein the matrix glass comprises the following components according to weight proportion: TABLE, wherein the last but one line represents the total amount of alkaline earth oxide, which is 0-10%; the last line represents scouring agent, which is 0-2%.

**Claim 13**
The conversion material according to any one of claims 1-11, wherein the matrix glass comprises the following components according to weight proportion: TABLE, wherein the last but one line represents the total amount of alkaline earth oxide, which is 0-10% and the last line represents scouring agent, which is 0-2%.

**Claim 14**
The conversion material according to any one of claims 1-11, wherein the matrix glass comprises the following components according to weight proportion: TABLE, wherein the last line represents scouring agent, which is 0-2%, preferably the matrix glass comprises the following components according to weight proportion: TABLE, wherein the last line represents scouring agent, which is 0-2%.

**Claim 15**
The conversion material according to any one of claims 1-9, wherein the refractive index of the matrix glass which is taken as the bulk material is smaller than 1.6, preferably 1.43-1.6, most preferably 1.45-1.59.
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