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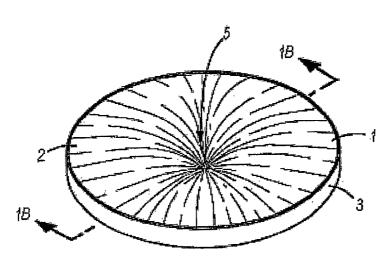
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 $\textbf{(54) Title:} \ \textbf{CIRCUMFERENTIALLY EMITTING LUMINAIRES AND LENS ELEMENTS FORMED BY TRANSVERSE-AXIS PROFILE-SWEEPS \\$



(57) Abstract: The present embodiments provide methods and apparatuses providing prescribed illumination. embodiments provide lenses (30, 40) that include a two-dimensional beam-forming lens-profile where the profile acts to deflect light rays (38, 46) from a light source (37, 61) into a relatively narrow output beam (47). A zone of higher refractive index than that of the area outside the profile is enclosed where the higher refractive-index zone admits the light rays, a transverse axis of revolution (34, 42) is further included and extends transversely across and outside of the lens-profile so that the transverse axis extends generally laterally with respect to a luminous centroid-direction of the output beam. The lens further includes a surface of revolution formed by circularly

sweeping the lens-profile about the axis .of revolution forming a circumferential beam from the output beam emitted by said surface

INTERNATIONAL SEARCH REPORT

International application No.

Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 2002/0163808 A1 (WEST et al) 07 November 2002 (07.11.2002), Figures 5A, 5D-5G; clum 5, lines 24-29, 40-44, 52-60. A,E US 6,811,277 B2 (AMANO) 02 November 2004 (02.11.2004), see entire document. A,P US 6,679,621 B2 (WEST et al) 20 January 2004 (20.01.2004), see entire document. 1-38 A US 6,502,964 B1 (SIMON) 07 January 2003 (07.01.2003), see entire document. 1-38 A US 5,898,809 A (TABOADA et al) 27 April 1999 (27.04.1999), see entire document. 1-38 A US 1,399,973 A (LIMPERT) 13 December 1921 (13.12.1921), see entire document. 1-38 Liter document defining the general state of the art which is not considered to be of particular relevance				PC1/US04/24450				
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