

Title (en)
LED PROJECTOR FOR ASYMMETRICAL ILLUMINATION

Title (de)
LED-SCHEINWERFER ZUR ASYMMETRISCHEN AUSLEUCHTUNG

Title (fr)
PROJECTEUR A DEL POUR ECLAIRAGE ASYMETRIQUE

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Abstract (en)
[origin: WO2004038285A1] The invention relates to a novel projector which has an asymmetrical illumination characteristic, and a clear light-dark limit, and uses almost the entire radiation power outputted from the semiconductor light source. To this end, the projector consists of a field of individual semiconductor light sources which are provided with optical elements having a novel form. Said optical elements have as flat a form as possible, such that the light admission inlet of the optical element has an elongated, essentially rectangular form. Furthermore, the optical elements comprise a central region, perpendicular to the light admission surface (F), the projection of said central region into a two-dimensional plane corresponding to a cylindrical two-dimensional cartesian oval. According to the invention, in order to better use the light emitted from the semiconductor light source, the light emergence surface (G) of the optical element, in the form of a cartesian oval, is combined with a parabolic reflector (A, B).

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