

Title (en)

Projector with a plurality of light escape ports improving the homogeneity of the illuminated surface

Title (de)

Eine Mehrzahl von Lichtausgängen enthaltender Scheinwerfer zum Beleuchten einer Oberfläche mit verbesserter Gleichmässigkeit

Title (fr)

Projecteur multi-hublots améliorant l'homogénéité de la plage éclairée

Publication

EP 0767339 A1 19970409 (FR)

Application

EP 96402106 A 19961003

Priority

FR 9511719 A 19951005

Abstract (en)

A centrally mounted light source (3) shines directly downwards (L5, 0) through a two-lens (5, 6) optical condenser (4). Similar condensers direct light beams (L1,... L3, ...) along the horizontal arms of the cruciform casing (1) to inclined mirrors (8), reflecting light downwards on axes (A) which intersect the vertical axis (0) on the plane (12) to be illuminated. Radiated heat, penetrating the mirrors, is absorbed by backing plates (9). Reflected light passes through ports (11) in the casing fitted with two dioptric systems one (d1) correcting optical aberrations, the other (d2) providing multiple spherical or prismatic surface matrices, designed to produce homogeneous illumination of the target plane. Variants have duplicate cruciform beams, or intermediate mirror systems diverting some light through additional ports.

Abstract (fr)

Le projecteur selon l'invention comporte des éléments optiques aménagés pour constituer chacun un hublot de passage comportant, d'une part, un premier dioptre (d1) assurant une conjugaison optique de la source lumineuse (3) sur le plan à éclairer, tout en optimisant la correction des aberrations optiques et, d'autre part, un second dioptre (d2) assurant une multiplication de l'image de la source pour permettre une uniformisation de l'éclairement dans le plan éclairé. <IMAGE>

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IPC 8 full level

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CPC (source: EP US)

F21V 5/04 (2013.01 - EP US); **F21W 2131/205** (2013.01 - EP US); **Y10S 362/804** (2013.01 - EP)

Citation (search report)

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