

## 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>

## IPC 1-7

**F21M 1/00**

## IPC 8 full level

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## Citation (search report)

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- [Y] DE 3324028 A1 19850117 - BARTENBACH CHRISTIAN
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- [AD] FR 2339129 A2 19770819 - ANGÉNIEUX P ETS [FR]

## Cited by

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**EP 0767339 A1 19970409**; **EP 0767339 B1 20030409**; DE 69627264 D1 20030515; DE 69627264 T2 20040325; ES 2196131 T3 20031216; FR 2739676 A1 19970411; FR 2739676 B1 19971114; US 5765943 A 19980616

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