

Title (en)

OPTICAL PROJECTION APPARATUS AND METHOD

Title (de)

OPTISCHES PROJEKTIONSGERÄT UND PROJEKTIONSVERFAHREN

Title (fr)

APPAREIL ET TECHNIQUE DE PROJECTION OPTIQUE

Publication

EP 0931275 A4 20000301 (EN)

Application

EP 96933567 A 19961008

Priority

IB 9601129 W 19961008

Abstract (en)

[origin: WO9815164A2] Certain optical imaging systems exhibit disparate vertical and horizontal image focal surfaces; at least one of which is tipped with respect to the optical axis. The projection optics which illuminates such systems must provide that the vertical image components focus upon the nominal vertical image surface, while the horizontal image components focus on the disparate horizontal image surface. Because at least one of these image surfaces may be tilted with respect to the projection axis, correction is required to maintain focus over the entire image surfaces and to eliminate keystoneing. The system may also require differing vertical and horizontal image magnifications as projected upon the above disparate focal surfaces. This invention describes, inter alia, the techniques for meeting these varied requirements, to project a rectilinear object field such that it forms a final focused rectilinear image in a system having tipped and disparate image planes.

IPC 1-7

G02B 27/00; **G02B 6/08**; **H04N 9/31**

IPC 8 full level

G02B 6/04 (2006.01); **G02B 6/08** (2006.01); **G02B 27/00** (2006.01); **G03B 21/14** (2006.01); **H04N 9/31** (2006.01)

CPC (source: EP)

G03B 21/147 (2013.01); **G03B 37/06** (2013.01)

Citation (search report)

- [DA] US 5381502 A 19950110 - VELIGDAN JAMES T [US]
- [A] EP 0421420 A2 19910410 - SPECTRANETICS CORP [US]
- [A] US 3212397 A 19651019 - MILLER WENDELL S
- [A] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 09 31 October 1995 (1995-10-31)

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

WO 9815164 A2 19980416; **WO 9815164 A3 19980827**; CA 2305268 A1 19980416; CA 2305268 C 20051227; EP 0931275 A1 19990728; EP 0931275 A4 20000301

DOCDB simple family (application)

IB 9601129 W 19961008; CA 2305268 A 19961008; EP 96933567 A 19961008