Title (en)

HIGH SPEED OPTICAL SYSTEM

Title (de)

OPTISCHES SYSTEM MIT HOHER GESCHWINDIGKEIT

Title (fr)

SYSTEME OPTIQUE GRANDE VITESSE

Publication

EP 0770224 A4 19981125 (EN)

Application

EP 95922012 A 19950607

Priority

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Abstract (en)

[origin: WO9534013A1] The present invention provides a lens system and/or a method of imaging onto an imaging detector. The lens system and method are used in focusing substantially parallel incident light onto the said detector. The lens system comprises: (a) a concentric spherical Cassegrain-like system of two mirrors; (b) a concentric spherical focal reducer; (c) a transfer lens system which combines the concentricity of the Cassegrain-like system of two mirrors and of the contrentric spherical focal reducer by imaging the first centre of concentricity that is of the system of two mirrors onto the second centre of cencentricity, that is, of the focal reducer to thereby provide a single optically cencentric system which combines their advantages. Also present in the system are: (d) means to correct the sum of the spherical aberation of all the spherical mirros in the entire system and (e) an aperture stop.

IPC 1-7

G02B 23/02; G02B 23/06

IPC 8 full level

G02B 17/08 (2006.01)

CPC (source: EP)

G02B 17/0808 (2013.01); **G02B 17/082** (2013.01); **G02B 17/084** (2013.01); **G02B 17/0852** (2013.01); **G02B 17/0888** (2013.01)

Citation (search report)

- [A] DE 3121044 A1 19820930 - WIEDEMANN ERWIN DR ING
- [A] US 3711184 A 19730116 - AMON M, et al
- [XD] PATENT ABSTRACTS OF JAPAN vol. 098, no. 007 31 March 1998 (1998-03-31)
- See references of WO 9534013A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

NZ 9500051 W 19950607; AU 2684795 A 19950607; CA 2192328 A 19950607; EP 95922012 A 19950607; JP 50070996 A 19950607