

Title (en)
ELECTRO-OPTIC LENS WITH INTEGRATED COMPONENTS

Title (de)
ELEKTROOPTISCHE LINSE MIT INTEGRIERTEN KOMPONENTEN

Title (fr)
LENTILLE ELECTRO-OPTIQUE A COMPOSANTS INTEGRES

Publication
EP 1485749 A4 20060208 (EN)

Application
EP 03744254 A 20030312

Priority

- US 0308273 W 20030312
- US 36354902 P 20020313
- US 40170002 P 20020807
- US 28120402 A 20021028

Abstract (en)
[origin: WO03077012A2] A range finder device for use with a controller in an optical system is disclosed in accordance with one embodiment of the invention. The range finder device comprises a transmitter configured to produce a first beam of non-visible radiation for intersecting a perceived object, and a receiver configured to detect a second beam of non-visible radiation reflected from the perceived object, the controller configured to determine a viewing distance of the perceived object based on signals received from the transmitter and receiver. A method of controlling an optical lens system is also disclosed. The method comprises utilizing a range finder device to determine a viewing distance of an object perceived through an electro-active lens and adjusting a focal length of a first portion of the electro-active lens based on the viewing distance. an optical lens system is also disclosed. The optical lens system comprises an electro-active lens and a controller coupled to the electro-active lens configured to adjust a focal length of at least a portion of the electro-active lens based on a signal from a range finder device.

IPC 8 full level
G02C 7/02 (2006.01); **G02C 7/06** (2006.01); **A61B 3/028** (2006.01); **G02B 3/14** (2006.01); **G02C 7/08** (2006.01); **G02C 7/10** (2006.01); **G02F 1/29** (2006.01)

CPC (source: EP)
G02C 7/08 (2013.01); **G02C 7/083** (2013.01); **G02C 7/101** (2013.01); **G02F 1/29** (2013.01); **G02F 1/13415** (2021.01)

Citation (search report)

- [A] WO 0102896 A1 20010111 - E VISION LLC [US]
- [A] US 5182585 A 19930126 - STONER ROBERT B [US]
- [A] US 4418990 A 19831206 - GERBER HEINZ J [US]
- [A] US 5739959 A 19980414 - QUAGLIA LAWRENCE D [US]
- See references of WO 03077012A2

Designated contracting state (EPC)
DE FR GB IE IT

DOCDB simple family (publication)
WO 03077012 A2 20030918; WO 03077012 A3 20040129; WO 03077012 A8 20040304; AU 2003225848 A1 20030922;
BR 0308099 A 20060411; CA 2478315 A1 20030918; CN 1653374 A 20050810; EP 1485749 A2 20041215; EP 1485749 A4 20060208;
JP 2005519684 A 20050707; MX PA04008510 A 20041206

DOCDB simple family (application)
US 0308273 W 20030312; AU 2003225848 A 20030312; BR 0308099 A 20030312; CA 2478315 A 20030312; CN 03810631 A 20030312;
EP 03744254 A 20030312; JP 2003575175 A 20030312; MX PA04008510 A 20030312