

Title (en)

Automatic harmonizing device for an opto-electronic system.

Title (de)

Vorrichtung zur automatischen Harmonisierung für ein opto-elektronisches System.

Title (fr)

Dispositif d'harmonisation automatique pour un système optronique.

Publication

EP 0419320 B1 19940615 (FR)

Application

EP 90402493 A 19900911

Priority

FR 8912257 A 19890919

Abstract (en)

[origin: JPH03122517A] PURPOSE: To eliminate energy concentration to a target by using a source that has the same light axis as laser at a first stage and emits light within the spectral sensitivity range of a first sensor and emitting rays within the sensitivity range of both sensors in the focus surface at a second stage, and aiming with a wide-band collimator containing a cross line that can be viewed simultaneously. CONSTITUTION: The automatic aiming device is constituted of a remote measuring instrument 2 consisting of a laser 12 for emitting light at a wavelength of 1.54μm, a distance measuring device 3 consisting of an image sensor for sensing light within an infrared range of 0.7-0.9μm, and a target identification tracking device 4 consisting of the image sensor and an image processing device 14. The devices have a common sight line LV and position it for a target by a light passage sight head 1. Rays received by a system are separated by dichromatic pieces 8 for transmitting infrared rays for the device 3 and at the same time, reflect visible reflection for the device 4. In this manner, the radiation of infrared rays is used for focusing for the device 1 by deflection using a mirror 9 and visible radiation is focused on an image sensor 11.

IPC 1-7

F41G 3/32

IPC 8 full level

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CPC (source: EP US)

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Cited by

CN114877749A; CN103486906A; US5786889A; CN104019806A; EP0601870A1; EP0520866A1; FR2678461A1; US5309250A; WO9427108A1; WO2014009944A1

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