Title (en)

FIRE CONTROL SYSTEM WITH A DOUBLE MEASURE OF ANGLES

Publication

EP 0089273 B1 19870107 (FR)

Application

EP 83400464 A 19830307

Priority

FR 8204214 A 19820312

Abstract (en)

[origin: EP0089273A1] 1. A fire control system comprising a tracking device (22) which can be directed according to two independent axes by orientation motors, and an electronic circuit (14) associated to the tracking device in order to control the motors in such a way that the tracking device is permanently directed onto a target (18), characterized in that the tracking device comprises a first optical means (70, 72) for a simultaneous reception and transmission according to an identical optical tracking axis (36) of an infrared radiation of a wavelength of about 3 to 5 mu m and of a visible radiation, both issued by the target, and a second optical means (74, 76) conceived to separate the radiations and direct them respectively to a detector (54) which is sensitive to the infrared radiation, and to an image detector (56) which is sensitive to the visible light, and further characterized in that the associated electronic circuit (14) comprises a first divergence measuring circuit (58), this circuit receiving the output signals of the detector which is sensitive to the infrared radiation, and delivering two divergence signals called "divergence signals concerning hot points", and a second divergence measuring circuit (60), this circuit receiving the signals from the image detector and supplying two divergence measuring signals called "divergence measuring signals relating to the visible light", and a circuit (64) for selecting the control mode, this circuit receiving a plurality of couples of orientation control signals including the two couples of divergence measuring signals, and transmitting one selected couple of control signals to the orientation motors.

IPC 1-7

F41G 3/06; F41G 3/22

IPC 8 full level

F41G 3/06 (2006.01); **F41G 3/22** (2006.01)

CPC (source: EP)

F41G 3/06 (2013.01); **F41G 3/22** (2013.01)

Cited by

CN102927416A; EP0276099A3; US5331881A; US5431084A; GB2284653A; GB2284653B; GB2326047A; GB2326047B

Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

EP 0089273 A1 19830921; **EP 0089273 B1 19870107**; DE 3368978 D1 19870212; FR 2523293 A1 19830916; FR 2523293 B1 19840420

DOCDB simple family (application)

EP 83400464 A 19830307; DE 3368978 T 19830307; FR 8204214 A 19820312