Title (en)

Detector of heat sources

Title (de)

Wärmequellendetektor

Title (fr)

Détecteur des sources thermiques

Publication

EP 1449566 A2 20040825 (EN)

Application

EP 04386007 A 20040218

Priority

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Abstract (en)

A detector of heat sources, capable of locating a forest fire from afar, even if the fire is still in its early stages, and acting as a deterrent against attempted arson, one of the most common causes of forest fires. <??>The proposed detector may also be used for defensive military purposes, as well as for the protection of isolated buildings and installations. <??>It may be installed at a high point or (still better) suspended from an airborne balloon (figure 1). <??>It consists of two polyhedral surfaces 4.1 and 4.3 (figure 4), one placed inside the other. Each face of the outside surface is a converging lens 3.1 (figure 3), while each face of the inside surface carries (at its center) a small photosensitive surface 4.2, which has some property that varies with the intensity of the incident radiation (e.g. photoresistance 2a and 2b). This allows the creation of an image of the ambient area by synthesizing the individual traces formed on the photosensitive surfaces, in a way similar to that of a television image. <??>Finally, the detector will be equipped with television cameras sensitive to infrared radiation, capable of taking pictures at nighttime and from afar. All data collected will be controlled and processed by a computer installed at the observation post. <IMAGE>

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IPC 8 full level

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CPC (source: EP)

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