

## Title (en)

METHOD AND DEVICE FOR DETECTING AN INTRUDER USING A PASSIVE INFRA-RED MOTION DETECTOR

## Publication

**EP 0402829 A3 19910612 (DE)**

## Application

**EP 90111007 A 19900611**

## Priority

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## Abstract (en)

[origin: EP0402829A2] A sensor head (SK) has a plurality of sensor elements (SE) which in each case cover a beam-shaped region (KB) and emit a signal if the heat source (EN) enters. At least two infrared sensor heads (SK1, SK2) are arranged at a specific distance (a) from one another and are aligned to a common coverage region (EB). The movement path of the heat source (EN) is determined by triangulation from the emitted signals and an alarm criterion (AL) is derived therefrom. In this case, the signals which occur in the individual sensor elements (SE) and are of different magnitude depending on the position and extent of the heat source (EN) are in each case amplified (VER) and digitised (A/D). A direction vector (RV1, RV2) for the heat source (EN) is calculated from the geometrically correct direction of the individual digitised signals for each sensor head (SK1, SK2) and the instantaneous position of the heat source is determined continuously from the points of intersection of two corresponding direction vectors. The track of the moving heat source is formed therefrom and an alarm criterion is derived from the shape and length of the track. <IMAGE>

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## CPC (source: EP)

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## Citation (search report)

- [YP] WO 8906806 A1 19890727 - BRADBEER PETER FREDERICK [GB]
- [Y] DE 2402204 A1 19750724 - FICHT REINHOLD
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## Cited by

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