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(54) **An alarm within an alarm**

(57) A device able to monitor items or personnel whilst an alarm system is either on stand-by or armed, using devices which would activate an alarm, or similar

system if any items or personnel go beyond a pre-set distance or boundary, or enter an unauthorised area.

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Description

Technical Field

[0001] To monitor items/personnel/pets with an alarm system using passive infra-red/movement sensor systems or similar systems, whilst the main alarm is on stand by

Background Art

[0002] You cannot protect/monitor items/ personnel/pets whilst an alarm system is on stand by

Summary of invention

[0003] The invention relates to a pair of emitting/receiving devices with one device being fixed/incorporated into a passive infra-red detector/movement sensor or similar item or stand- alone unit and the other device is attached to an item/person that will set an alarm/sounder system off either if it is on stand- by or armed when a given distance between the devices is broken or if one of the devices detects the other device on a given signal/frequency

Technical Problem

[0004] On any alarm system which uses passive infra-red detectors/movement sensors or similar detectors there is no device or way or monitoring items within premises or children/personnel/pets not being allowed outside or in areas within a house/premises whilst the an alarm system is on stand by

Solution to Problem

[0005] One of the devices (A) the sender is attached to any item/person/pet which is made to receive a signal/frequency from the receiver (B), which is a device incorporated within a passive infra- red detection/movement detection device and would work in conjunction with the device or as a stand- alone unit .When the sender (A) can no longer detect/monitor the signal/frequency from the receiver(B) it will produce a signal of its own which will be able to be detected by the receiver (B)

[0006] Once this has been detected the receiver (B) will trigger the tamper circuit of the alarm system or similar system being operated within the alarm system to set the alarm off whilst the system is on stand- by or armed

[0007] The signal/frequency from the receiver (B) could be variable so the pre-set distance could be altered from receiver to sender

[0008] A receiver (B) could work with any number of senders (A) or visa- versa

[0009] To detect a child/pet/person entering a room/area where not normally allowed the receiver will always be emitting a signal/frequency pre-set but a different sig-

nal/frequency than is being used to detecting the pre-set distance part of the device, once this has been detected by the sender it will trigger the alarm system off in the same matter as if the devices had detected they had broken the pre-set distance with each other. Each receiver and sender would need to be paired up on signal/frequency's for this situation.

[0010] The receiver could be manufactured within any passive infra- red detector or movement sensor incorporating all abilities of the devices together

Advantageous effect of invention

[0011] Any item/person can be monitored with any alarm system using passive infra- red/movement sensors or similar detection devices plus units being used as stand- alone units, so whilst an alarm system is on stand-by items/persons/pets can still be detected/monitored. If point A (the sender) goes beyond a set distance from the point B (the receiver), or a sender enters an area not allowed the device will activate the alarm whilst on stand-by.

[0012] The alarm system can be reset in the normal manner as if the tamper circuit or similar circuit had been activated.

[0013] Description of embodiments

[0014] An alarm system within an alarm system

Industrial applicability

[0015] Monitor items/personnel within premises whilst main alarm is on stand-by and could detect/monitor items/personal not allowed in certain areas whilst an alarm system is on stand by

Citation list

[0016] Keith Owen

Claims

1. To be able to monitor any number of items/personnel/pets/property whilst any alarm system is on stand by and not armed or visa -versa. One receiver (B) could work in conjunction with any number of senders, or all receivers could work in conjunction with all senders.
2. Items/Children/personnel/pets could be monitored within the premises, so if they went beyond the pre-set distance/boundary, or entered an area they are not allowed, the alarm system would be activated whether the alarm system is on stand- by or armed.
3. Alter existing systems already using passive infrared/movement detectors without the need to re-wire or up-grade alarm system other than adding detec-

tors to enable them to monitor/detect whilst on stand-by.

4. To be able to work in conjunction with passive infrared detectors/movement sensors or similar detection units and work in conjunction with the device, equally, the devices can be built independently to function on their own. 5

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EUROPEAN SEARCH REPORT

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82