

Title (en)
Infra-red detection apparatus.

Title (de)
Infrarot-Detektierungsvorrichtung.

Title (fr)
Dispositif de détection à infrarouge.

Publication
EP 0537024 A1 19930414 (EN)

Application
EP 92309235 A 19921009

Priority
GB 9121523 A 19911010

Abstract (en)
Apparatus for the detection of infra-red radiation comprises a passive infra-red sensor (16), a focusing reflector (20) constructed and arranged to focus infra-red radiation received by the apparatus from a first range of distances from the apparatus, on the sensor (16) , and a focusing refractor (14) constructed and arranged to focus infra-red radiation received by the apparatus from a second range of distances from the apparatus, on the sensor (16), the second distance range encompassing distances shorter than the first distance range. The refractor may be a Fresnel lens (14) or an array of Fresnel lenses (32, 33, 34) formed in a polyethylene window (12) through which the radiation is transmitted. The reflector (20) may be a concave reflector and a second plane reflector (22) may be included to produce a more compact construction. <IMAGE>

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G08B 13/193

IPC 8 full level
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CPC (source: EP)
G08B 13/193 (2013.01)

Citation (search report)
• [A] DE 3812969 A1 19891102 - MERTEN GMBH & CO KG GEB [DE]
• [A] EP 0219954 A1 19870429 - MAXIMAL ELECTRICAL ENG LTD [GB]
• [A] US 4841284 A 19890620 - BIERSDORFF JACK L [US]

Cited by
EP2450859A1; GB2286042A; EP0665522A1; US5572033A; GB2286042B; US9165443B2

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