

Title (en)
APPARATUS FOR THERMAL IMAGING

Title (de)
VORRICHTUNG ZUR THERMISCHEN ABBILDUNG

Title (fr)
APPAREIL DE THERMOGRAPHIE

Publication
EP 1588136 A4 20060322 (EN)

Application
EP 04707355 A 20040202

Priority
• US 2004002762 W 20040202
• US 44429203 P 20030131

Abstract (en)
[origin: WO2004069547A2] A device for thermal imaging of target surfaces includes a housing (12) with an opening (14) for directing incident infrared rays along an optical path through an optical assembly (40) optimized to have a spectral band width of 3 to 14um, onto a UFPA detector (48) having a spectral transmission window (84) which has a bandwidth 3 to 14um sufficient to pass all infrared rays of interest over a broad temperature range. Filter means (44) including at least two filters (78, 80), having a band width in the ranges of 3 to 8um and 8 to 14um, respectively, allow for the placement of either specialized IR filter in the optical path so as to attenuate and/or pass certain wavelengths of the infrared rays depending on the specific application in a broad range between -40°C to 2000°C. The device allows for thermal imaging even in daytime applications in sunlight.

IPC 8 full level
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CPC (source: EP US)
G01J 5/0044 (2013.01 - EP); **G01J 5/02** (2013.01 - EP); **G01J 5/0265** (2013.01 - EP); **G01J 5/041** (2013.01 - EP); **G01J 5/48** (2013.01 - US); **G01J 5/602** (2013.01 - EP); **H04N 23/23** (2023.01 - EP); **G01J 2005/0077** (2013.01 - EP)

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