

Title (en)
BOLOMETRIC DETECTOR FOR DETECTING ELECTROMAGNETIC WAVES

Title (de)
BOLOMETRISCHER DETEKTOR ZUM DETEKTIEREN VON ELEKTROMAGNETISCHEN WELLEN

Title (fr)
DETECTEUR BOLOMETRIQUE D'ONDES ELECTROMAGNETIQUES

Publication
EP 2340422 A1 20110706 (FR)

Application
EP 09797567 A 20090528

Priority
• FR 2009051003 W 20090528
• FR 0854857 A 20080717

Abstract (en)
[origin: WO2010007266A1] This bolometric detector for detecting electromagnetic radiation comprises: a receive antenna (10) designed to collect the electromagnetic radiation, and thus ensure electromagnetic coupling; a resistive load (30) capacitively coupled to the antenna (10) and capable of converting the collected electromagnetic power into calorific power; and a thermometric element (40) connected to the resistive load (30) and thermally isolated from a support substrate capable of receiving an electronic circuit integrating electrical excitation (stimulus) means and means for preprocessing the electrical signals generated by said detector. The resistive load (30) is suspended above the receive antenna (10) by means of just the thermometric element (40), which is itself electrically and mechanically connected to the support substrate.

IPC 8 full level
G01J 5/08 (2006.01); **G01J 5/20** (2006.01)

CPC (source: EP US)
G01J 5/08 (2013.01 - EP US); **G01J 5/0837** (2013.01 - EP US); **G01J 5/20** (2013.01 - EP US)

Citation (search report)
See references of WO 2010007266A1

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