

Title (en)
AN APPARATUS FOR DETECTING RADIATION

Title (de)
VORRICHTUNG ZUR STRAHLUNGSERKENNUNG

Title (fr)
APPAREIL DE DÉTECTION DE RAYONNEMENT

Publication
EP 3918373 A1 20211208 (EN)

Application
EP 19835682 A 20191218

Priority
• FI 20195055 A 20190129
• FI 2019050902 W 20191218

Abstract (en)
[origin: WO2020157371A1] An apparatus for detecting radiation comprises a radiation converter (101), a photodetector (102), and a light guide (103) for conducting photons emitted by the radiation converter. The radiation converter is a layer in contact with a first surface (105) of the light guide and the photodetector is attached to an opposite side of the light guide. A convex second surface (106) of the light guide receives the photons from the radiation converter and has a reflective coating (104) reflecting the photons backwards to the radiation converter that, in turn, reflects the photons to the photodetector. As the photons are reflected back-and-forth in the above-mentioned way, the photons can be directed to a small area even if the light guide is short in a direction (z) perpendicular to the first surface of the light guide.

IPC 8 full level
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Citation (search report)
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