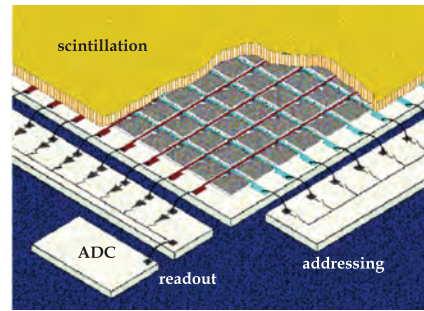
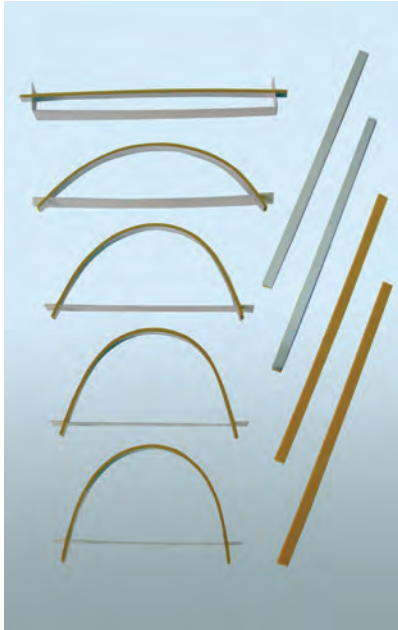


FLEXIBLE COMPOSITE SCINTILLATION PANELS FOR ADVANCED RADIOGRAPHIC AND TOMOGRAPHIC SURVEYS



Areas of Application

The device is to be used for recording X-ray radiation with a high spatial resolution, in detectors for nondestructive control systems, medical tomography and radiography, as well as in intensifying screens in medical and industrial radiography

Specification

The flexible composite scintillation panels and elements are based on fine-crystalline ZnSe. They can be used for realization of dual-energy X-ray detector that effectively operates in the range of from 20 to 100 keV X-ray radiation

Advantages

The cost of fine-crystalline scintillation panels is much less as compared with the single crystals possessing the same quality. They can be used in multi-energy X-ray scanners and medical computer tomography. The panels have a high spatial resolution (up to 7 line pairs per mm). Unlike the single crystals, these panels are not limited by size and can be shaped variously

Stage of Development.

Suggestions for Commercialization

IRL8, TRL7

Small batches of scintillators are manufactured and X-ray detector systems are developed upon request

IPR Protection

IPR1, IPR3

Contact Information

Sergii M. Galkin, Institute for Scintillation Materials of the NAS of Ukraine;
+38 057 341 04 10, e-mail: galkin@isma.kharkov.ua