A SELF INDICATING MULTI-SENSOR RADIATION DOSIMETER

Abstract: Described is a multi-sensor radiation dosimeter system with (1) a self-indicating, instant radiation sensor and (2) a conventional radiation sensor for monitoring high energy radiations, such as X-ray, electrons and neutrons. Conventional radiation sensors, such as X-ray film, TLD (Thermoluminescence Dosimeters), RLG (Radioluminescence Glass) and OSL (Optically Stimulated Luminescence), are highly sensitive but are not instant. In the event of a dirty bomb, nuclear detonation or a radiological accident, one needs to know the exposure instantly so proper precautions can be taken and medical treatment, if required, can be given to the victim. If a self-indicating instant sensor is one of the sensors, one would know the dose instantly, and dose can be determined with higher accuracy than by the traditional methods. This type of device offers the best of both technologies.
<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
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<tr>
<td>X</td>
<td>US 2006/0145091 A1 (PATEL, G.) 06 July 2006 (06.07.2006) para [0016]-[0017], [0030]-[0032], [0036]-[0037], [0039]-[0041], [0043], [0051], [0056], [0069]-[0071], [0076], [0078]-[0080], [0083]-[0084], [0085]-[0091], [0094]-[0097], [0108], [0118], [0129], [0127]-[0129], [0134], [0157], [0166], [0169], [0170], [0174], [0181], [0184], [0187], [0192]-[0194], [0209], [0216], [0230], [0253], [0238], [0244]; See Figs 9, 10 and 20, Table 3</td>
<td>1-72</td>
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