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(54) **APPARATUS AND METHOD FOR ELECTRON BEAM IRRADIATION HAVING IMPROVED DOSE UNIFORMITY RATIO**

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(58) **Field of Classification Search** 250/492.2, 250/394, 453.1, 337, 305; 53/167, 426; 141/85
See application file for complete search history.

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(57) **ABSTRACT**

The present invention is related to an apparatus and method for irradiating a product package, comprising a radiation source directing a radiation beam along a beam direction towards said product package, conveying means for transporting said product package past said radiation source along a transport path, and reflecting means located on at least one side of the plane formed by said beam direction and said transport path. By adjusting the distance and angle of the reflecting means to the conveyor and beam, and improved dose uniformity ratio is obtained.

11 Claims, 11 Drawing Sheets

