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INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

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(57) Abstract :
The present invention provides an Intraluminal dosimetry slab phantom that is used to verify a treatment plan created in the treatment planning computer system with the same plan actually delivered on the HDR machine for Intraluminal brachytherapy and can be utilized as a quality assurance tool in the brachytherapy of thoracic site to compare the organs at risk doses, calculated in Treatment Planning System (TPS) and measured in a tissue equivalent phantom designed for a thoracic site at different locations. The phantom includes main anatomical structures such as Left Lung, Right Lung, Heart, Esophagus, Aorta, Sternum, and spinal cord for dosimetry. The tissue equivalent materials are chosen for the structures on the basis of tissue density. The phantom is the replica of the structures located in the thoracic cavity of the patient body.

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