

Carotid Patch and Filter for Panoramic X-Rays

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Technology description

Description

The present invention uses a filter system that allows x-ray films or imaging devices in a panoramic radiograph device to be exposed at discreet intensities for different portions of the human dental structure. The structure is composed of human bone, teeth and soft tissue, all of which vary in density. This system has the ability to select the attenuation of an x-ray beam for the different densities of the human dental structure providing optimal results. The present invention has several advantages. First, using the carotid filter will improve the diagnostic realm and quality of an otherwise routine dental exam. Secondly, embodiments of the present invention will improve the positive predictive value for carotid disease and prompt further evaluation of carotid disease with, for example, duplex ultrasound. Additionally, this invention will improve overall community health through better identification of a potentially life threatening condition.

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