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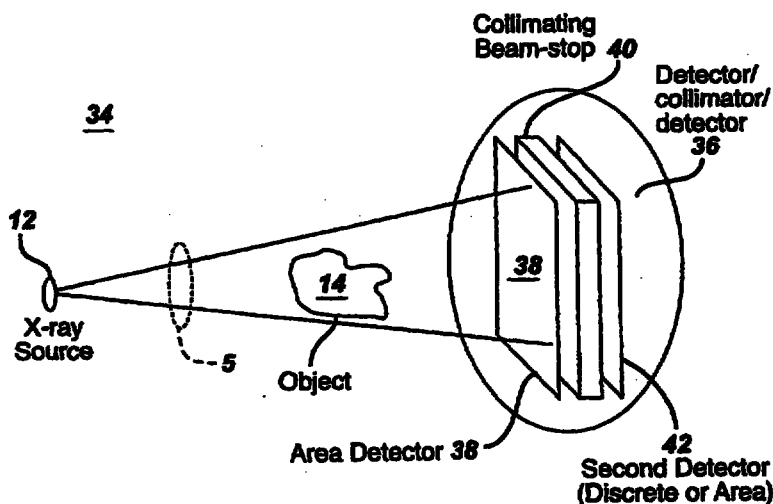
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- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: APPARATUS, METHODS, AND COMPUTER PROGRAMS FOR ESTIMATING AND CORRECTING SCATTER IN DIGITAL RADIOGRAPHIC AND TOMOGRAPHIC IMAGING



(57) Abstract: An x-ray imaging system (134) images an object (14) by transmitting primary signals and includes a collimator (40) placed between detectors of the x-ray imaging system. The collimator reduces respective scatter components of total signals including a primary signal component and a scatter signal component. One of the detectors detects the total signals, the collimator collimates the primary signals of the total signals focally aligned with the collimator and traveling through the one of the detectors, another of the detectors detects the collimated, primary signals. The x-ray imaging system reduces the scatter components of the total signals detected by the one of the detectors based on the detected, collimated signals and the corresponding, detected, total signals. In another aspect, a detector includes regions (70) of reduced absorption.

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