

ABSTRACT**METHOD AND APPARATUS FOR CENTRE-OF-ROTATION DETERMINATION IN
COMPUTED TOMOGRAPHY IMAGES**

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A method and apparatus is disclosed for centre-of-rotation determination in computed tomography (CT) images. The central ray, defined as the projection of the centre of rotation on the detector, is determined with the projection data of the object to be
10 inspected by measuring the mismatching level of the two object images reconstructed with views 1 to 180 and 181 to 360, respectively. The central ray is determined using a two-step strategy, where the measurement is carried out within a large range and a large step size to obtain a rough value estimate of the central ray, then a smaller search range and smaller step size are used to obtain an accurate value of the central ray. A wire-
15 phantom, or a lookup table or the geometrical method may be used to obtain a rough value estimate of the central ray.

FIG. 4A