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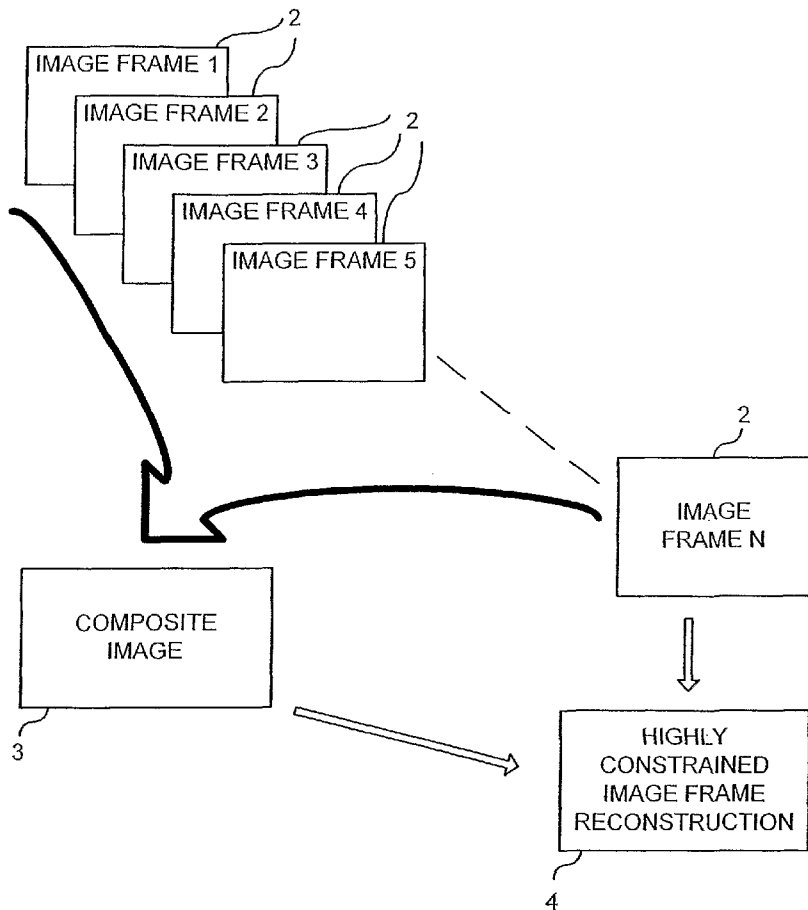
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(54) Title: BACKPROJECTION RECONSTRUCTION METHOD FOR CT IMAGING



(57) Abstract: An image reconstruction method includes reconstructing a composite image of a subject using a conventional reconstruction method. The composite image employs the best information available regarding the subject of the scan and this information is used to constrain the reconstruction of highly undersampled image frames. An image frame is reconstructed using limited acquired data and image quality is improved using a priori information of the subject by weighting pixel values therein by values of corresponding pixels in the composite image.

WO 2007/008528 A3



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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	LAUNAY L ET AL: "3D reconstruction of cerebral vessels and pathologies from a few biplane digital angiographies" VISUALIZATION IN BIOMEDICAL COMPUTING. 4TH INTERNATIONAL CONFERENCE, VBC '96 PROCEEDINGS SPRINGER-VERLAG BERLIN, GERMANY, 1996, pages 123-128, XP001247778 ISBN: 3-540-61649-7 the whole document	1,14,28
X	CRISTIAN BADEA ET AL: "Experiments with the nonlinear and chaotic behaviour of the multiplicative algebraic reconstruction technique (MART) algorithm for computed tomography" PHYSICS IN MEDICINE AND BIOLOGY, TAYLOR AND FRANCIS LTD. LONDON, GB, vol. 49, no. 8, 21 April 2004 (2004-04-21), pages 1455-1474, XP020024084 ISSN: 0031-9155 page 1456 - page 1457	1,14,28