

Title (en)

DIFFUSION IMAGING USING DIRECT RECONSTRUCTION OF SCATTERED RADIATION

Title (de)

DIFFUSIONSBILDGEBUNG UNTER VERWENDUNG DIREKTER REKONSTRUKTION GESTREUTER STRAHLUNG

Title (fr)

IMAGERIE DE DIFFUSION UTILISANT LA RECONSTRUCTION DIRECTE D'UN RAYONNEMENT DIFFUSE

Publication

EP 0871862 A1 19981021 (EN)

Application

EP 96910699 A 19960401

Priority

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Abstract (en)

[origin: WO9632632A1] A system and method for the direct reconstruction of a diffusion image from measurements of the transmitted intensity of the scattered radiation effected by irradiating the object (710) with a time-domain source (720). The transmitted intensity detected by detector (730) is related to the diffusion coefficient by an integral operator. The image is directly reconstructed by a processor (750), with input means (760) and output means (770), by executing a prescribed mathematical algorithm, as determined with reference to the integral operator, on the transmitted intensity.

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