

Title (en)
STEREOSCOPIC IMAGING THROUGH SCATTERING MEDIA

Title (de)
STEREOSKOPISCHE ABBILDUNG DURCH STREUMEDIEN

Title (fr)
IMAGERIE STEREOSCOPIQUE A TRAVERS UN MILIEU DISPERSANT

Publication
EP 1929237 A2 20080611 (EN)

Application
EP 06802527 A 20060825

Priority

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Abstract (en)
[origin: WO2007025278A2] A method for three-dimensional imaging of hidden objects in a scattering medium. Objects hidden between two biological tissues at different depths from the viewing system are recovered, and their three dimensional locations are computed. Analogous to a fly's two eyes, two microlens arrays are used to observe the hidden objects from different perspectives. At the output of each lens array, constructed are objects from several sets of many speckled images by a technique previously suggested which uses a reference point. The differences of the reconstructed images on both arrays in respect to the reference point yield the information regarding the relative depth between the various objects.

IPC 8 full level
G01B 11/02 (2006.01); **H04N 13/239** (2018.01)

CPC (source: EP US)
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Citation (search report)
See references of WO 2007025278A2

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