(54) Title: METHOD OF FULL-COLOR OPTICAL COHERENCE TOMOGRAPHY

(57) Abstract: Two-dimensional and three-dimensional optical coherence tomography is obtained by differential imaging of full-frame interference images using a white light source. Full-color tomographic imaging is also possible by processing the three-color channels of the interference images. A technique is described to obtain two-dimensional OCT images with full natural color representation. In a particular embodiment, the interference image is acquired using a color camera and the three-color channels are processed separately, recombining the final image. In an additional embodiment, the interference images are acquired using separate red, blue and green light sources and the three color channels are combined to recombining the final image.
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B. FIELDS SEARCHED
Minimum documentation searched (classification system followed by classification symbols)
U.S. : 356/497, 496, 479

Documented searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
USPTO East, Google

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>US 6,057,920 A (PERCHER et al) 02 May 2000 (02.05.00).</td>
<td>1-20</td>
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<td>A</td>
<td>SANO, YUSUKO et al. Color computer-generated holograms from projection images, Optics Express, 31 May 2004, Vol. 12, No. 11, pp. 2487-2493</td>
<td>1-20</td>
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</tbody>
</table>

FURTHER DOCUMENTS ARE LISTED IN THE CONTINUATION OF BOX C.

See patent family annex.

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Name and mailing address of the ISA/US
Authorized officer
Gregory J. Tantley
Telephone No: 571-272-2059

Mail Stop PCT, Attn: ISA/US Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (703) 305-3230

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