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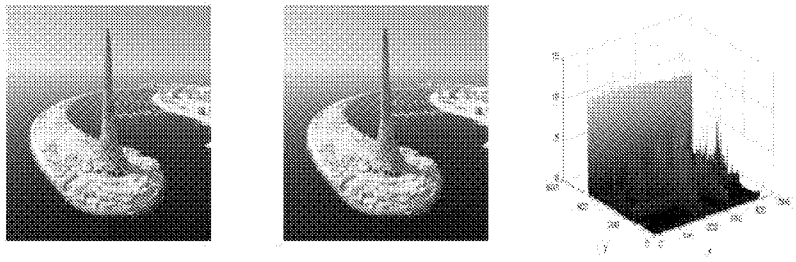
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(54) Title: SYSTEM AND METHOD FOR IMAGE RECONSTRUCTION, ANALYSIS, AND/OR DE-NOISING



(a) (b) (c)

Figure 2

(57) Abstract: A method and system can analyze, reconstruct, and/or denoise an image. The method and system can include interpreting a signal as a potential of a Schrödinger operator, decomposing the signal into squared eigenfunctions, reducing a design parameter of the Schrödinger operator, analyzing discrete spectra of the Schrödinger operator and combining the analysis of the discrete spectra to construct the image.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Zineb Kaisserli ET AL: "Semi-classical based image reconstruction", 6th Colloquium on Trends in the Applications of Mathematics in Tunisia, Algeria, Morocco, 2013, 6 April 2013 (2013-04-06), XP055223062, Retrieved from the Internet: URL:https://hal.inria.fr/hal-00795302v2/document [retrieved on 2015-10-22] the whole document ----- -/--	1-11

[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

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Name and mailing address of the ISA/	Authorized officer
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DA-YAN LIU ET AL: "Mathematical properties of a semi-classical signal analysis method: Noisy signal case", SYSTEMS AND COMPUTER SCIENCE (ICSCS), 2012 1ST INTERNATIONAL CONFERENCE ON, IEEE, 29 August 2012 (2012-08-29), pages 1-6, XP032376736, DOI: 10.1109/ICONSCS.2012.6502462 ISBN: 978-1-4673-0673-7 the whole document ----	1-11
A	US 2004/071363 A1 (KOURI DONALD J [US] ET AL) 15 April 2004 (2004-04-15) abstract paragraphs [0117] - [0128], [0160] - [0164], [0192] - [0196], [0288] - [0293] paragraphs [0323] - [0325], [0450] - [0459], [0559] - [0561] ----	1-11

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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		US 2004071363 A1	15-04-2004