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(54) **ACOUSTIC MICRO IMAGING METHOD PROVIDING IMPROVED INFORMATION DERIVATION AND VISUALIZATION**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 508 days.

PCT Notification of Transmittal of the International Search Report or the Declaration.

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PCT Written Opinion.

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(52) **U.S. Cl.** **73/105; 73/601; 382/108; 382/154; 382/147**

(58) **Field of Search** **73/104, 105, 601; 382/108, 147, 154**

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(57) **ABSTRACT**

A method for enhancing information derived from acoustically inspected samples comprises deriving an acoustic image of a sample, and generating a visual superposition of one or more additional images. The additional images are selected from the group consisting of an optical image, a second acoustic image in a different sized field of view form said acoustic image, an infrared image, an X-ray image, and an electron beam image.

21 Claims, 5 Drawing Sheets

