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(54) Title: STRUCTURAL HEALTH MONITORING METHOD AND SYSTEM

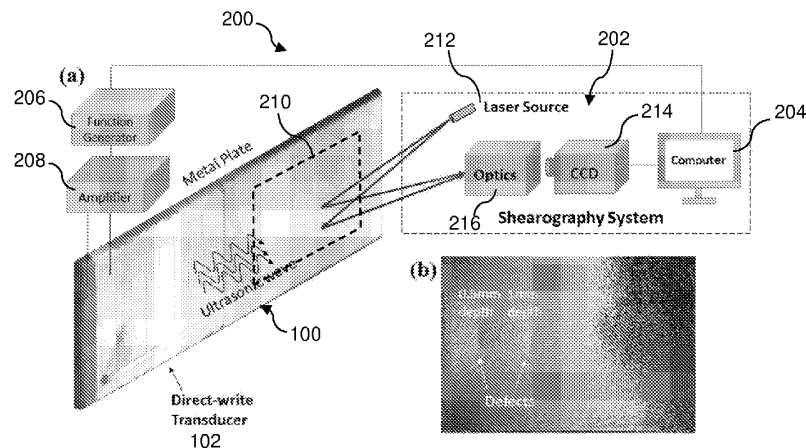


Figure 2

(57) Abstract: A structural health monitoring method includes directly forming an acoustic transducer on a surface of a structure to be monitored; generating, by the acoustic transducer, an acoustic wave to apply stress loading to a region of interest on the structure; and detecting a presence of a defect in the region of interest. Detecting includes a non-contact optical imaging of the region of interest with and without the stress loading and an analysis of imaging data from the non-contact optical imaging.

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