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(71) Applicant: **WAVESCAN TECHNOLOGIES PTE. LTD.**
[SG/SG]: #02-11/12, 79 Ayer Rajah Crescent, Singapore 139955 (SG).

(72) Inventors: **AGARWAL, Kush**; #02-11/12, 79 Ayer Rajah Crescent, Singapore 139955 (SG). **THOTHATHRI, Karthik**; #02-11/12, 79 Ayer Rajah Crescent, Singapore 139955 (SG).

(74) Agent: **NG, Kim Tean**; P.O. Box 1861, Robinson Road Post Office, Singapore 903711 (SG).

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(54) Title: A MILLI METER (MM) WAVE IMAGING SYSTEM FOR NON-DESTRUCTIVE TESTING AND DEPLOYING METHODS THEREOF

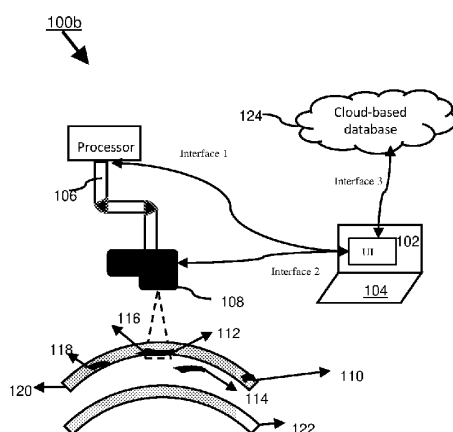


FIG.3B

(57) Abstract: The invention is directed to a mmWave image scanning system comprising; a RF subsystem configured with multiple transceiver channels for transmitting and receiving electromagnetic waves in mmWave spectrum, a signal processing subsystem for producing high resolution 2D and 3D holographic images based on backscattered wideband data, and a software subsystem configured for predictive analysis. The system further comprises a localisation subsystem resided either in the system or in the automated platform for inspection and an interface subsystem configured for interfacing various subsystems over various wired and wireless interfaces. The image scanning system provides high resolution images to identify the structural defects of assets with a swift process. The invention also related to a method for obtaining images of an area under testing using the system.

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