

SCATTERING TOMOGRAPHY DEVICE AND SCATTERING TOMOGRAPHY METHOD

[ABSTRACT]

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A scattering tomography device (100) includes: a transmitting antenna (101) that transmits radio waves into an interior of an object; a receiving antenna (102) that receives, outside the object, scattered waves of the radio waves; and an information processing
10 circuit (103) that obtains measurement results over a plurality of days and generates a reconstructed image showing a persistent element inside the object based on the measurement results. The information processing circuit (103) calculates a scattering field function for each of the measurement results, calculates a
15 visualization function for each of the measurement results, generates intermediate images for the measurement results, and generates a reconstructed image by calculating a minimum value of an image intensity at each position in the intermediate images using a logical conjunction.

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Fig. 13