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(71) Applicant: NORTHROP GRUMMAN CORPORATION [US/US]; 1840 Century Park East, Los Angeles, CA 90067-2199 (US).

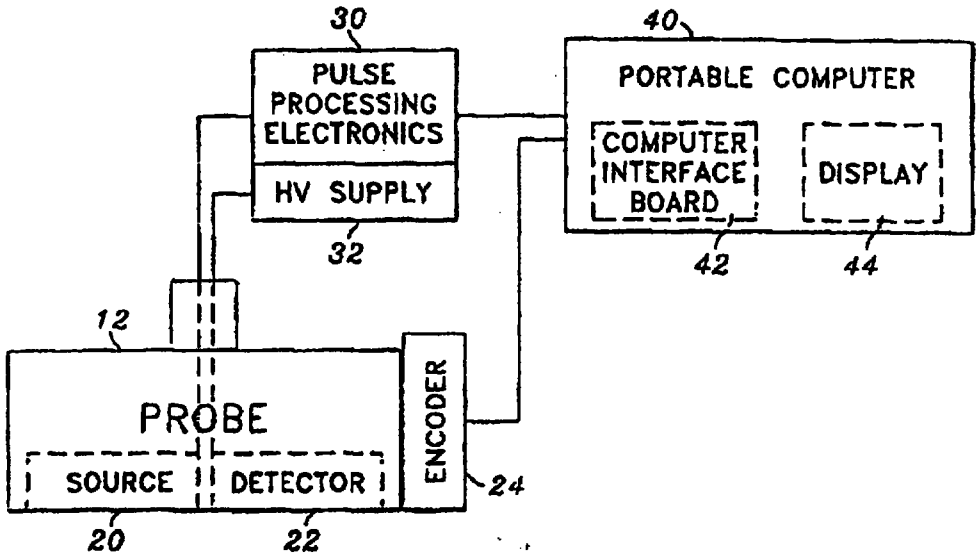
(72) Inventor: SCHULTE, Robert, L.; 19 Mitchell, Port Washington, NY 11050 (US).

(74) Agents: ANDERSON, Terry, J.; Northrop Grumman Corporation, 1840 Century Park East, Los Angeles, CA 90067-2199 (US) et al.

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(54) Title: TWO-DIMENSIONAL IMAGING BACKSCATTER PROBE



(57) Abstract

A two-dimensional imaging backscatter probe (12) has a radiation source (20), a radiation detector (22), and a position sensing device (24) to which the radiation detector is attached. A mapping circuit generates a two-dimensional map of backscattered radiation as a function of position of the radiation detector. A display (44) displays the two-dimensional map. The two-dimensional imaging backscatter probe of the present invention facilitates non-destructive/non-intrusive inspection of a test article for contraband and/or structural integrity inspection.