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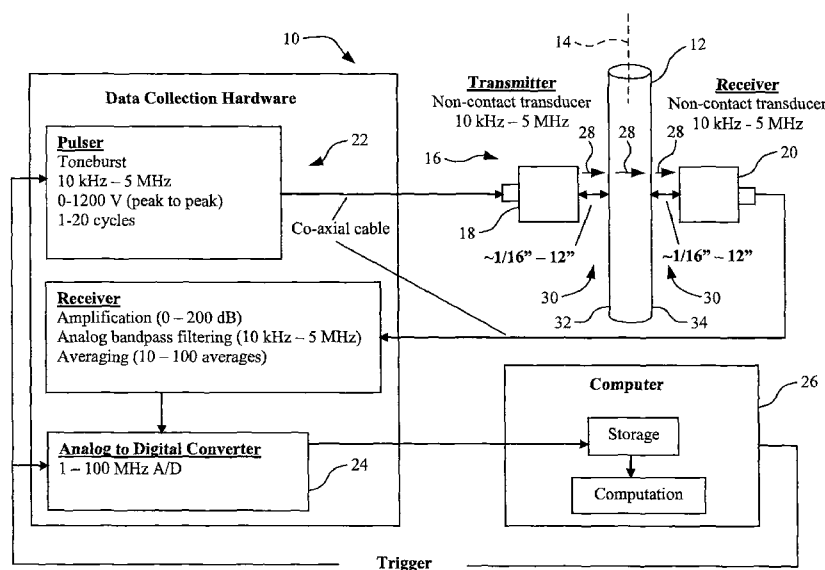
(54) Title: NON-CONTACT ACOUSTIC SIGNAL PROPAGATION PROPERTY EVALUATION OF SYNTHETIC FIBER
ROPE

FIG. 1a

(57) Abstract: A non-contact signal propagation property evaluation system for ropes can be deployed for a number of different applications including, but not limited to, moving lines, e.g., crane or winch and static lines, e.g., mooring lines, stays, etc., to evaluate physical properties of the ropes and, in some cases, to help evaluate structural health of the ropes. The system includes a first transducer for generating ultrasonic waves, a second transducer for receiving ultrasonic waves propagated transversely through and around the rope, and a processor executing computer readable code to determine acoustic propagation properties of the rope.



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