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ABSTRACT

ULTRASONIC TRANSDUCER ARRANGEMENT

An ultrasonic transducer arrangement for inspecting a pipe to fitting weld with restricted scanning access. A TOFD ultrasonic send transducer is mounted adjacent one end of a frame. A TOFD ultrasonic receive transducer is mounted on the frame and spaced linearly apart from and aligned with the TOFD send transducer. The TOFD send and receive transducers are each positioned at an angle that matches the external radius of curvature of the pipe. A phased array curved, wedge, send/receive transducer is mounted on the frame and spaced radially apart from the TOFD transducers.

FIG. 4