

PHASED-ARRAY FLAW-DETECTION DEVICE AND METHOD

ABSTRACT

5 A plurality of ultrasonic transducers 12 (segment 15) of
the invented probe 10 are separated in a concentric circle
pattern, separated in rows that are orthogonal to a
reference line L that passes through the center of circles,
and positioned line symmetrically with respect to the
reference line L. The detection surface 14 of the invented
10 probe 10 has a circular shape having the diameter D, and
has a plurality of segments 15 divided into a plurality of
arc-shaped portions that are symmetrical with respect to
the reference line L. Further a controller 20 which has a
plurality of control channels 21 for controlling pairs of
15 the line symmetrical ultrasonic transducers 12 under the
same conditions is provided.

Fig. 2