

ABSTRACT OF THE DISCLOSURE

TUBE WALL THICKNESS MEASURING APPARATUS

5 A tube wall thickness measuring apparatus which measures a wall thickness of a
tube (52), includes an apparatus main body (3), a sensor (8) installed at the apparatus
main body (3) and configured to generate an ultrasonic wave radially outward from a
radial center of the tube (52), a pair of expansion/contraction mechanisms (4) installed at
the apparatus main body (3) to be expandable and contractible radially outwardly and
10 radially inwardly and provided at regular intervals in a circumferential direction around
an axis of the tube (52), a biasing member (5) configured to urge the
expansion/contraction mechanism (4) to expand, wheels (6) installed at each of the
expansion/contraction mechanisms (4) and configured to guide movement of the
apparatus main body (3) in an axis direction (Da) while being in contact with an inner
15 circumferential surface of the tube (52), and
a transmission mechanism (7) configured to convert a radial expansion of one (4a) of the
expansion/contraction mechanisms into a radial expansion of the other
expansion/contraction mechanism (4b).

20 (Fig. 2)