

# LEAKAGE DETECTOR, LEAKAGE DETECTION METHOD, AND PIPE NETWORK

## MONITORING APPARATUS

### ABSTRACT

Provided is a leakage detector which is capable of exhibiting high sensitivity to vibration-sounds caused by water leakage from a synthetic resin pipe and thus setting an installation span longer to thereby make it possible to more efficiently perform a water leakage inspection for a synthetic resin pipe. The leakage detector (6) comprises a base (11), a piezoelectric element (9) supported by the base (21) and configured to convert vibration-sounds to an electric signal, and a weight member (28) loaded against the piezoelectric element (9). The piezoelectric element (9) is made of a polymeric piezoelectric material. One end of the piezoelectric element (9) is supported by an upper end of a support post (27), and the weight member (28) is loaded against the other end of the piezoelectric element (9).

Fig. 8