

EARTHQUAKE DETECTION AND EARLY WARNING SYSTEM

ABSTRACT

5 A sensing device for detecting seismic waves and providing early warning. The device comprises multiple electrodes disposed in a container that is partially filled with a conductive fluid. A level electrode in electrical communication with a fluid adjuster to adjust sensitivity of the sensing electrode automatically and a control electrode to control the flow rate of the conductive fluid into the container. A system comprises a
10 plurality of sensing devices connected to a central processing unit for detecting seismic waves at different locations and providing early warning. The central processing determines whether an earthquake will occur based on several types of seismic detection algorithms.

15 [Figure 1]