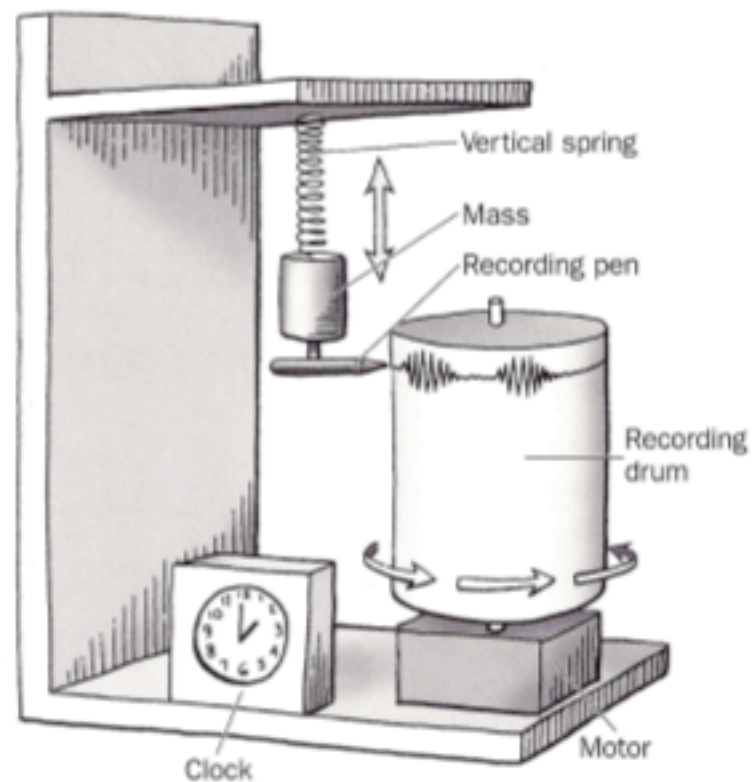


**Figure 12.1** *Horizontal seismograph*



**Figure 12.2** *A vertical seismograph contains a mass suspended from a spring. The mass and pen tend to remain still, while the rest of the instrument moves up and down. As a result, vertical ground motions can be recorded.*