

DETECTOR AND METHOD OF CONTROLLING THE SAME

ABSTRACT

5 According to embodiments of the present invention, a detector is provided. The detector includes an electromagnetic absorber, an electromagnetic reflector arranged spaced apart from the electromagnetic absorber, wherein the electromagnetic absorber is configured to absorb an electromagnetic radiation, the electromagnetic radiation having a wavelength defined based on a distance between the electromagnetic absorber and the
10 electromagnetic reflector, and an actuating element configured to move the electromagnetic absorber from an equilibrium position bi-directionally relative to the electromagnetic reflector to change the distance, and wherein the detector is configured to determine a change in a property associated with the electromagnetic absorber in response to the electromagnetic radiation. According to further embodiments of the
15 present invention, a method of controlling the detector is also provided.

Figure 2A