

AN OPTICAL SENSING SYSTEM AND A METHOD OF DETERMINING A
CHANGE IN AN EFFECTIVE REFRACTIVE INDEX OF A RESONATOR OF AN
OPTICAL SENSING SYSTEM

5 ABSTRACT

According to embodiments of the present invention, an optical sensing system is provided. The optical sensing system includes a resonator arrangement including a first resonator, wherein an effective refractive index of the first resonator is changeable in
10 response to a change in a refractive index of a cladding of the first resonator, and a second resonator to which a current or voltage being adjustable in response to a change in the effective refractive index of the first resonator is applied, wherein the optical sensing system is configured to determine the change in the effective refractive index of the first resonator based on a change in the current or voltage applied to the second resonator.
15 Further embodiments provide a method of determining a change in an effective refractive index of a resonator of an optical sensing system.

Figure 3A