

**TITLE: A SYSTEM AND METHOD FOR CALIBRATING READINGS
ASSOCIATED WITH PHYSIOLOGICAL PARAMETERS OF A USER**

ABSTRACT

5

The present invention discloses system 100 for calibrating readings associated with physiological parameters of a user. The system 100 includes a wearable device 102 to sense data associated with the physiological parameters of a user, one or
10 more sensors 104 positioned in proximity of the user to sense data associated with ambient parameters of the user and a sensor hub 106 configured to receive sensed data from the wearable device 102 and receive sensed data from the one or more sensors 104. The system 100 further includes a data processing engine
15 118 configured to correlate the sensed data from the wearable device 102 and the sensed data from the one or more sensors 104 by employing machine learning models to determine a bias in the sensed data from the wearable device 102 and calibrate the readings associated with physiological parameters of the user
20 based on the determined bias.

Figure 1