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(57) Abstract :

The present disclosure pertains to an ear recognition and authentication device including one or more earbuds (102) adapted to be worn by an entity, a scanner (106), and a processor (108) operatively coupled to the scanner (106). The scanner (106) is configured to scan one or more images of ear surface associated with an entity, and correspondingly generate a first set of signals. The processor (108) is configured to identify a set of ear points from the first set of signals, authenticate the identified set of ear points with pre-stored ear points associated with the entity, and generate a set of verification signals, where the set of verification signals facilitate adjusting the one or more earbuds (102) inside one or more earholes of the entity in response to the authenticated set of ear points and enables providing grip to the one or more earbuds (102) on the ear surface.

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