

## **VISUAL HACKING PREVENTION OF A MOBILE DEVICE**

### **ABSTRACT**

Protecting a mobile device from visual hacking comprises analyzing a displayed window/page containing data fields and parsing the fields to identify when sensitive information is displayed. Data from a gyroscope of the mobile device is used to detect roll and pitch viewing angles of the mobile device, data from a proximity sensor is used to detect a distance between the mobile device and the user, and a camera is used to take an image of the user and detect a number of faces visible in the image. The sensitive information is obscured when any predefined conditions are not met, including: determining that the roll and pitch viewing angles are not within pitch and roll threshold values, or that the detected distance is not within distance threshold values, or that more than a single face is detected in the image.

[Figure 1A]