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SMART WATCH WITH BUILT-IN CAMERA AND STRESS SENSOR

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Smart Watch with Built-in Camera and Stress Sensor

Abstract: A Smart Watch begins to record and upload video when the wearer of the watch experiences stress, which may be measured via a heart rate sensor. This could inform or assist the user's loved ones, health-care provider, or law enforcement agency.

This disclosure relates to the field of wearable computer devices.

A Smart Watch is disclosed that begins recording video when the wearer experiences stress.

Physiological stress, such as for example an elevated heartbeat, can be an indication of something gone wrong in a person's life. In some cases, it can be a serious or life-threatening event or condition. In such situations, it would be advantageous if the cause of the stress could be made known to a responsible person, such as the person's loved ones, their health-care provider, a law enforcement agency, or others. However, unless there were human witnesses to the event, or video cameras located where the event occurred, the cause of the stress, or even the existence of the stress, can go unnoticed.

According to the present disclosure, in one example a Smart Watch includes at least one physiological stress sensor, wireless communication capability, and a video camera. In one example, the stress sensor is a heart rate monitor. If the heart rate exceeds a threshold, the camera begins recording video. In one example, the recorded video is uploaded to a cloud, and can only be deleted using a device external to the Smart Watch. In other examples, the video is stored locally, and may be managed locally. In some examples, the Smart Watch includes a GPS and recorded videos contain embedded latitude and longitude coordinates. The Smart Watch can also, in some examples, be configured to notify an appropriate person in case of a stress event occurrence. However, in other examples no such notifications are provided.

The Smart Watch may be advantageously worn by children, medical patients, and senior citizens, among others.

In other examples, rather than in a watch, the physiological stress sensor, wireless communication capability, and/or video camera may be disposed on or adjacent the wearer in other forms, such as smart clothing, a body camera, or other objects which allow the detection of stress and/or recording of video.

Disclosed by Sally Liu, HP Inc.