

**NONINVASIVE ARTERIAL CONDITION DETECTING METHOD, SYSTEM,
AND NON-TRANSITORY COMPUTER READABLE STORAGE MEDIUM**

ABSTRACT OF THE DISCLOSURE

A noninvasive arterial condition detecting system includes a processing device and an electronic stethoscope configured for auscultating carotid artery to receive sound signals. The processing device is connected to the electronic stethoscope. The processing device records the sound signals, preprocesses the sound signal to reduce noise, measures a trough-peak distance and a trough-peak time, and generates an estimate result of arterial conditions according to the trough-peak distance and the trough-peak time. The trough-peak distance and the trough-peak time are related to the health of the carotid artery walls.

Fig. 1