

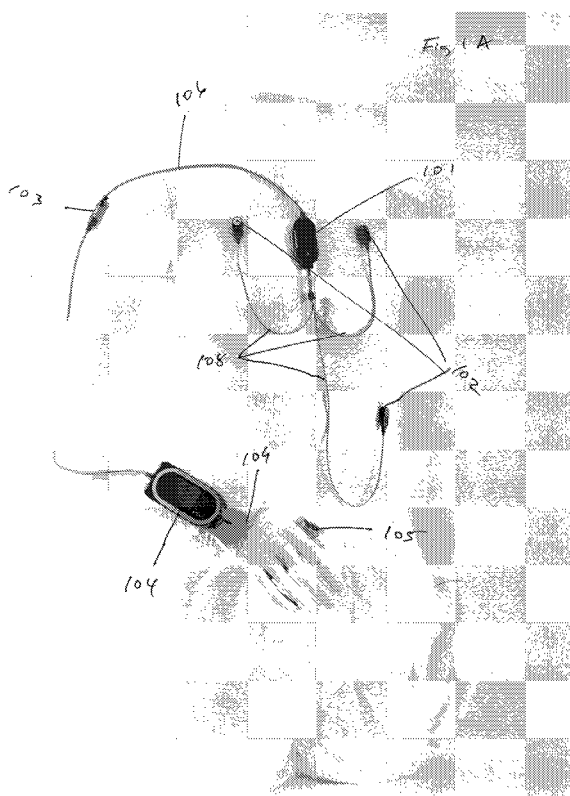


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- (54) Title:** BODY-WORN SYSTEM FOR CONTINUOUS, NONINVASIVE MEASUREMENT OF VITAL SIGNS



(57) Abstract: The invention provides methods and systems for continuous noninvasive measurement of vital signs such as blood pressure (cNIBP) based on pulse arrival time (PAT). The invention uses a body-worn monitor that recursively determines an estimated PEP for use in correcting PAT measurements by detecting low frequency vibrations created during a cardiac cycle, and a state estimator algorithm to identify signals indicative of aortic valve opening in those measured vibrations.

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