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Lam et al.

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(54) **ADJUSTABLE FINGER CUFF ASSEMBLY FOR A BLOOD PRESSURE MEASUREMENT DEVICE**

(58) **Field of Classification Search**
CPC A61B 5/02; A61B 5/021; A61B 5/02141; A61B 5/022; A61B 5/02233; A61B 5/02241
See application file for complete search history.

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 481 days.

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(57) **ABSTRACT**

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Finger cuff adjustability is provided in a measurement cylinder assembly in a unique manner which accommodates the size and space limitations inherent in a mouse-based blood pressure measurement device. The exterior radial surface of the inflatable cuff is adhered to a pull-tab which is longer than the cuff length and has a tab end channeled through a pair of rings, one of which is fixed or stationary and the other of which is an adjustment ring. Rotation of the adjustment ring either pulls or pushes the tab end through a slit in the fixed or stationary ring depending upon the direction of ring rotation. Pulling the tab end causes the adhered finger cuff to forcefully collapse around the user's finger in firmer engagement therewith and to compensate for a finger of smaller diameter. Pushing the tab end causes the adhered finger cuff to forcefully open to a larger profile to loosen the engagement with a finger and to compensate for a finger of larger diameter.

(65) **Prior Publication Data**

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Related U.S. Application Data

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(52) **U.S. Cl.**
CPC *A61B 5/02241* (2013.01); *A61B 5/6897* (2013.01)

10 Claims, 7 Drawing Sheets

