

(12) UK Patent Application (19) GB (11) 2524124 (13) A

(43) Date of Reproduction by UK Office 16.09.2015

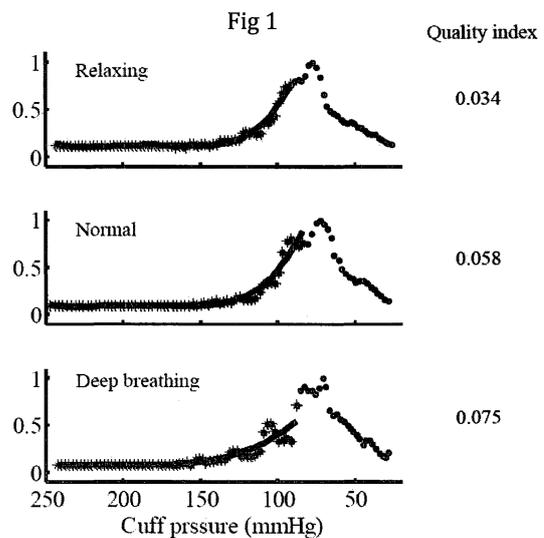
(21) Application No: 1412639.5
(22) Date of Filing: 30.06.2014
Date Lodged: 07.08.2014
(30) Priority Data:
(31) 1311757 (32) 01.07.2013 (33) GB
(86) International Application Data:
PCT/GB2014/051982 En 30.06.2014
(87) International Publication Data:
WO2015/001324 En 08.01.2015

(51) INT CL:
A61B 5/022 (2006.01)
(56) Documents Cited:
EP 1077042 A1 US 20100174202 A1
US 20070118036 A1
(58) Field of Search:
INT CL A61B

(71) Applicant(s):
University of Newcastle Upon Tyne
(Incorporated in the United Kingdom)
Kings Gate, NEWCASTLE UPON TYNE, NE1 7RU,
United Kingdom
(72) Inventor(s):
Alan Murray
Dingchang Zheng
(74) Agent and/or Address for Service:
Murgitroyd & Company
Scotland House, 165-169 Scotland Street, GLASGOW,
G5 8PL, United Kingdom

(54) Title of the Invention: **An improved sphygmomanometer capable of displaying the quality of blood pressure readings**
Abstract Title: **An improved sphygmomanometer capable of displaying the quality of blood pressure readings**

(57) The present invention relates to an improved non-invasive sphygmomanometer which is able to calculate the quality of a blood pressure reading and display quality information to the user. More specifically the invention relates to a sphygmomanometer and the use of oscillometric readings to calculate the quality of the readings, and a quality indicator device for use with the same. The invention uses the identified relationship between the waveform quality from recorded oscillometric pulses and blood pressure (BP) measurement error.



GB 2524124 A