


**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent of: Poeze et al.  
U.S. Patent No.: 10,258,265 Attorney Docket No.: 50095-00006IP1  
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Filing Date: December 6, 2018  
Title: MULTI-STREAM DATA COLLECTION SYSTEM FOR  
NONINVASIVE MEASUREMENT OF BLOOD  
CONSTITUENTS

**DECLARATION OF DR. THOMAS W. KENNY**

**Declaration**

I declare that all statements made herein on my own knowledge are true and that all statements made on information and belief are believed to be true, and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable under Section 1001 of Title 18 of the United States Code.

By:  \_\_\_\_\_

Thomas W. Kenny, Ph.D.

Masimo Ex. 2020  
Applied Medicine

## Contents

I. QUALIFICATIONS AND BACKGROUND INFORMATION.....	5
II. OVERVIEW OF CONCLUSIONS FORMED .....	11
III. LEVEL OF ORDINARY SKILL IN THE ART .....	13
IV. LEGAL STANDARDS .....	14
A. Terminology .....	14
B. Legal Standards for Anticipation.....	14
C. Legal Standards for Obviousness .....	15
V. HISTORICAL AND TECHNICAL OVERVIEW.....	20
VI. THE '265 patent .....	20
A. Overview of the '265 patent.....	20
VII. SUMMARY OF THE PRIOR ART.....	25
A. Overview of Aizawa.....	25
B. Overview of Inokawa .....	28
C. Overview of Ohsaki.....	32
D. Overview of Mendelson-1988.....	34
E. Overview of Mendelson-2006.....	36
F. Overview of Beyer, Jr.....	40
VIII. GROUND 1A – Claims 1-4, 6-14, 16, 17, 19-23, and 26-29 Are Rendered Obvious by Aizawa in view of Inokawa.....	41
A. Claim 1 .....	41
B. Claim 2 .....	58
C. Claim 3 .....	59
D. Claim 4 .....	60
E. Claim 6 .....	63
F. Claim 7 .....	63
G. Claim 8 .....	64
H. Claim 9 .....	65
I. Claim 10 .....	67
J. Claim 11 .....	68

K. Claim 12 .....	69
L. Claim 13 .....	71
M. Claim 14 .....	71
N. Claim 16 .....	72
O. Claim 17 .....	72
P. Claim 19 .....	73
Q. Claim 20 .....	73
R. Claim 21 .....	74
S. Claim 22 .....	75
T. Claim 23 .....	76
U. Claim 26 .....	77
V. Claim 27 .....	79
W. Claim 28 .....	80
X. Claim 29 .....	81
IX. GROUND 1B –Claims 1-4, 6-14, 16, 17, 19-23, and 26-29 Are Rendered Obvious by Aizawa in view of Inokawa and Ohsaki .....	81
A. Claims 1-4, 6-14, 16, 17, 19-23, and 26-29 .....	81
X. GROUND 1C – Claims 23-24 Are Rendered Obvious by Aizawa in view of Inokawa and Mendelson-2006.....	84
A. Claim 23 .....	84
B. Claim 24 .....	88
XI. GROUND 1D – Claims 23-24 Are Rendered Obvious by Aizawa in view of Inokawa, Goldsmith, and Lo.....	89
A. Claim 23 .....	89
B. Claim 24 .....	93
XII. GROUND 1E – Claim 25 Is Rendered Obvious by Aizawa in view of Inokawa, Mendelson-2006, and Beyer, Jr. ....	93
A. Claim 25 .....	93
XIII. GROUND 2A – Claims 1-4, 6-14, 16-22, and 26-30 Are Rendered Obvious by Mendelson-1988 in View of Inokawa .....	96
A. Claim 1 .....	97
B. Claim 2 .....	108

C. Claim 3 .....	109
D. Claim 4 .....	110
E. Claim 6 .....	111
F. Claim 7 .....	111
G. Claim 8 .....	112
H. Claim 9 .....	113
I. Claim 10 .....	113
J. Claim 11 .....	114
K. Claim 12 .....	115
L. Claim 13 .....	117
M. Claim 14 .....	118
N. Claim 16 .....	118
O. Claim 17 .....	118
P. Claim 18 .....	119
Q. Claim 19 .....	119
R. Claim 20 .....	120
S. Claim 21 .....	121
T. Claim 22 .....	122
U. Claim 26 .....	123
V. Claim 27 .....	126
W. Claim 28 .....	127
X. Claim 29 .....	130
Y. Claim 30 .....	130
XIV. GROUND 2B – Claims 23-24 Are Rendered Obvious by Mendelson-1988 in view of Inokawa and Mendelson-2006.....	131
A. Claim 23 .....	131
B. Claim 24 .....	133
XV. GROUND 2C – Claim 25 Is Rendered Obvious by Mendelson-1988 in view of Inokawa, Mendelson-2006, and Beyer, Jr. ....	134
A. Claim 25 .....	134
XVI. CONCLUSION.....	138

## **I. QUALIFICATIONS AND BACKGROUND INFORMATION**

1. My education and experience are described more fully in the attached curriculum vitae (APPLE-1004). For ease of reference, I have highlighted certain information below.

2. My academic and professional background is in Physics, Mechanical Engineering, Sensing, and Robotics, with a research specialization focused on microfabricated physical sensors, and I have been working in those fields since the completion of my Ph.D. more than 30 years ago. The details of my background and education and a listing of all publications I have authored in the past 35 years are provided in my curriculum vitae, attached as Exhibit A. Below I provide a short summary of my education and experience which I believe to be most pertinent to the opinions that I express here.

3. I received a B.S. in Physics from University of Minnesota, Minneapolis in 1983, and a Ph.D. in Physics from University of California at Berkeley in 1989. I was educated as a Physicist specializing in sensors and measurement. My Physics Ph.D. thesis involved measurements of the heat capacity of monolayers of atoms on surfaces, and relied on precision measurements of temperature and power using time-varying electrical signals, and also on the design and construction of miniature sensor components and associated electrical circuits for conditioning and conversion to digital format.

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