


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

In re Patent of: Poeze et al.  
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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 Medical

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## **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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