IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of:	Poeze, et al.	
U.S. Patent No.:	10,258,266	Attorney Docket No.: 50095-0007IP1
Issue Date:	April 16, 2019	
Appl. Serial No.:	16/212,537	
Filing Date:	December 6, 2018	
Title:	MULTI-STREAM DATA COLLECTION SYSTEM FOR NON-INVASIVE MEASUREMENT OF BLOOD CONSTITUENTS	

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DECLARATION OF JACOB ROBERT MUNFORD

1. My name is Jacob Robert Munford. I am over the age of 18, have personal knowledge of the facts set forth herein, and am competent to testify to the same.

2. I earned a Master of Library and Information Science (MLIS) from the University of Wisconsin-Milwaukee in 2009. I have over ten years of experience in the library/information science field. Beginning in 2004, I have served in various positions in the public library sector including Assistant Librarian, Youth Services Librarian and Library Director. I have attached my Curriculum Vitae as Appendix A.

3. During my career in the library profession, I have been responsible for materials acquisition for multiple libraries. In that position, I have cataloged, purchased and processed incoming library works. That includes purchasing materials directly from vendors, recording publishing data from the material in question, creating detailed material records for library catalogs and physically preparing that material for circulation. In addition to my experience in acquisitions, I was also responsible for analyzing large collections of library materials, tailoring library records for optimal catalog

search performance and creating lending agreements between libraries during my time as a Library Director.

4. I am fully familiar with the catalog record creation process in the library sector. In preparing a material for public availability, a library catalog record describing that material would be created. These records are typically written in Machine Readable Catalog (herein referred to as "MARC") code and contain information such as a physical description of the material, metadata from the material's publisher, and date of library acquisition. In particular, the 008 field of the MARC record is reserved for denoting the date of creation of the library record itself. As this typically occurs during the process of preparing materials for public access, it is my experience that an item's MARC record indicates the date of an item's public availability.

5. Typically, in creating a MARC record, a librarian would gather various bits of metadata such as book title, publisher and subject headings among others and assign each value to a relevant numerical field. For example, a book's physical description is tracked in field 300 while title/attribution is tracked in field 245. The 008 field of the MARC record is reserved for denoting the creation of the library record itself. As this is the only date reflecting the inclusion of said materials within the library's collection, it is my experience

that an item's 008 field accurately indicates the date of an item's public availability.

6. This declaration is being drafted as of November 2020. Public and university libraries in my area have been closed for months due to the COVID-19 pandemic. My state, Pennsylvania, has a travel advisory, which has affected my ability to travel. In my experience, library catalog records are accurate descriptions of a library's collection and my lack of physical access to libraries at this time creates no doubt in my determinations of authenticity or availability of the exhibits noted below.

7. I have reviewed Exhibit 1024, a copy of an article entitled "Measurement Site and Photodetector Size Considerations in Optimizing Power Consumption of a Wearable Reflectance Pulse Oximeter" by Y. Mendelson and C. Pujary as published in the *Proceedings of the 25th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, September 17 – 21, 2003* (hereinafter referred to as "2003 IEEE conference publication").

8. Attached hereto as Appendix MENDELSON01 is a true and correct copy of the MARC record for the 2003 IEEE conference publication, as held by the

University of Pennsylvania's library. I secured this record myself from the library's public catalog.

9. The MARC record contained within Appendix MENDELSON01 accurately describes the title, author, publisher, and ISBN number of the 2003 IEEE conference publication. In comparing the listed fields in Appendix MENDELSON01 to Exhibit 1024, it is my determination that Exhibit 1024 is a true and correct copy of the "Measurement Site and Photodetector Size Considerations in Optimizing Power Consumption of a Wearable Reflectance Pulse Oximeter" article, and that the copy of the 2003 IEEE conference publication in University of Pennsylvania's library includes the article in Exhibit 1024.

10. The 008 field of the MARC record noted on page 1 of Appendix MENDELSON01 indicates that the 2003 IEEE conference publication was first cataloged by the University of Pennsylvania's library as of February 4, 2004. Based on this information and considering the dates of the conference, it is my determination that the 2003 IEEE conference publication, which included the article published as Exhibit 1024, was made available to the public by the University of Pennsylvania at least as of February 4, 2004.

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