## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of:	Jeroen Poeze et al.	
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Filing Date:	August 19, 2019	
Title:	MULTI-STREAM DATA COLLECTION SYSTEM FOR	
	NONINVASIVE MEA	SUREMENT OF BLOOD CONSTITU-
	ENTS	

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## PETITION FOR INTER PARTES REVIEW OF UNITED STATES PATENT NO. 10,588,554 PURSUANT TO 35 U.S.C. §§ 311–319, 37 C.F.R. § 42

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APPLE-1003	Declaration of Dr. Kenny
APPLE-1004	Curriculum Vitae of Dr. Kenny
APPLE-1005	Masimo Corporation, et al. v. Apple Inc., Complaint, Civil Ac- tion No. 8:20-cv-00048 (C.D. Cal.)
APPLE-1006	US Pub. No. 2002/0188210 ("Aizawa")
APPLE-1007	JP Pub. No. 2006/296564 ("Inokawa")
APPLE-1008	Certified English Translation of Inokawa and Translator's Dec- laration
APPLE-1009	US Pub. No. 2001/0056243 ("Ohsaki")
APPLE-1010	"A Wearable Reflectance Pulse Oximeter for Remote Physio- logical Monitoring," Y. Mendelson, et al.; Proceedings of the 28th IEEE EMBS Annual International Conference, 2006; pp. 912-915 ("Mendelson-2006")
APPLE-1011	RESERVED
APPLE-1012	US Patent No. 6,801,799 ("Mendelson799")
APPLE-1013	US Pub. No. 2004/0054291 ("Schulz")
APPLE-1014	RESERVED
APPLE-1015	RESERVED
APPLE-1016	RESERVED

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- APPLE-1017 "Design and Evaluation of a New Reflectance Pulse Oximeter Sensor," Y. Mendelson, et al.; Worcester Polytechnic Institute, Biomedical Engineering Program, Worcester, MA 01609; Association for the Advancement of Medical Instrumentation, vol. 22, No. 4, 1988; pp. 167-173 ("Mendelson-1988")
- APPLE-1018 "Skin Reflectance Pulse Oximetry: In Vivo Measurements from the Forearm and Calf," Y. Mendelson, et al.; Journal of Clinical Monitoring, vol. 7, No. 1, January 1991 ("Mendelson 1991)
- APPLE-1019 Excerpts from Design of Pulse Oximeters, J.G. Webster; Institution of Physics Publishing, 1997 ("Webster")
- APPLE-1020 QuickSpecs; HP iPAQ Pocket PC h4150 Series
- APPLE-1021 Excerpts from How to Do Everything with Windows Mobile, Frank McPherson; McGraw Hill, 2006 ("McPherson")
- APPLE-1022 Excerpts from Master Visually Windows Mobile 2003, Bill Landon, et al.; Wiley Publishing, Inc., 2004 ("Landon")
- APPLE-1023 "Stimulating Student Learning with a Novel 'In-House' Pulse Oximeter Design," J. Yao and S. Warren; Proceedings of the 2005 American Society for Engineering Education Annual Conference & Exposition, 2005 ("Yao")
- APPLE-1024 US Pub. No. 2008/0194932 ("Ayers")
- APPLE-1025 U.S. Patent No. 7,031,728 ("Beyer")
- APPLE-1026 US Pub. No. 2007/0145255 ("Nishikawa")
- APPLE-1027 National Instruments LabVIEW User Manual

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APPLE-1031 Scheduling Order, Masimo v. Apple et al., Case 8:20-cv-00048, Paper 37 (April 17, 2020)

APPLE-1032	Stipulation by Apple

- APPLE-1033 Telephonic Status Conference, Masimo v. Apple et al., Case 8:20-cv-00048, Paper 78 (July 13, 2020)
- APPLE-1034 Joseph Guzman, "Fauci says second wave of coronavirus is 'inevitable", TheHill.com (Apr. 29, 2020), available at: https://thehill.com/changing-america/resilience/natural-disasters/495211-fauci-says-second-wave-of-coronavirus-is
- APPLE-1035 "Tracking the coronavirus in Los Angeles County," LATimes.com (Aug. 20, 2020), available at https://www.latimes.com/projects/california-coronavirus-casestracking-outbreak/los-angeles-county/
- APPLE-1036 Declaration of Jacob R. Munford

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