UNITED STATES PA	ATENT AND TRADEMARK OFFICE
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BEFORE THE PAT	ENT TRIAL AND APPEAL BOARD
	APPLE INC., Petitioner,
	v.
A	ALIVECOR, INC., Patent Owner.
_	
]	IPR2021-00972 Patent 10,638,941

PETITIONER'S UPDATED EXHIBIT LIST



Case IPR2021-00972 Attorney Docket No: 50095-0034IP1

LIST OF EXHIBITS

APPLE-1001	U.S. Pat. No. 10,638,941 to Albert et al. ("the '941 patent")
APPLE-1002	Excerpts from the Prosecution History of the '941 patent ("the Prosecution History")
APPLE-1003	Declaration of Dr. Bernard A. Chaitman
APPLE-1004	PCT Patent Publication WO2012/140559 ("Shmueli")
APPLE-1005	U.S. Patent Publication 2014/0275840 ("Osorio")
APPLE-1006	Li Q, Clifford GD, "Signal quality and data fusion for false alarm reduction in the intensive care unit," J Electrocardiol. 2012 Nov-Dec; 45(6):596-603 ("Li-2012")
APPLE-1007	U.S. Patent Publication 2008/0004904 ("Tran")
APPLE-1008	U.S. Patent Publication 2014/0107493 ("Yuen")
APPLE-1009	U.S. Patent Publication 2015/0119725 ("Martin")
APPLE-1010	U.S. Provisional Application No. 61/794,540 ("Osorio Provisional")
APPLE-1011	Lee J, Reyes BA, McManus DD, Mathias O, Chon KH. Atrial fibrillation detection using a smart phone. International Journal of Bioelectromagnetism, Vol. 15, No. 1, pp. 26 - 29, 2013 ("Lee-2013")
APPLE-1012	Tsipouras MG, Fotiadis DI. Automatic arrhythmia detection based on time and time-frequency analysis of heart rate variability. Comput Methods Programs Biomed. 2004 May; 74(2):95-108 ("Tsipouras 2004")
APPLE-1013	Lu S, Zhao H, Ju K, Shin K, Lee M, Shelley K, Chon KH. Can



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photoplethysmography variability serve as an alternative approach to obtain heart rate variability information? J Clin Monit Comput. 2008 Feb; 22(1):23-9 ("Lu 2008")

APPLE-1014 Selvaraj N, Jaryal A, Santhosh J, Deepak KK, Anand S. Assessment of heart rate variability derived from finger-tip photoplethysmography as compared to electrocardiography. J Med Eng Technol. 2008 Nov-Dec; 32(6):479-84 ("Selvaraj 2008")

APPLE-1015 Lu G, Yang F, Taylor JA, Stein JF. A comparison of photoplethysmography and ECG recording to analyse heart rate variability in healthy subjects. J Med Eng Technol. 2009; 33(8):634-41 ("Lu 2009")

APPLE-1016 Suzuki T, Kameyama K, Tamura T. Development of the irregular pulse detection method in daily life using wearable photoplethysmographic sensor. Annu Int Conf IEEE Eng Med Biol Soc. 2009; 2009:6080-3 ("Suzuki 2009")

APPLE-1017 Reed MJ, Robertson CE, Addison PS. Heart rate variability measurements and the prediction of ventricular arrhythmias. QJM. 2005 Feb; 98(2):87-95 ("Reed 2005")

APPLE-1018 Schäfer A, Vagedes J. How accurate is pulse rate variability as an estimate of heart rate variability? A review on studies comparing photoplethysmographic technology with an electrocardiogram. Int J Cardiol. 2013 Jun 5; 166(1):15-29 ("Schafer 2013")

APPLE-1019 K. Douglas Wilkinson, "The Clinical Use of the Sphygmomanometer," The British Medical Journal, 1189-90 (Dec. 27, 1924) ("Wilkinson")

APPLE-1020 U.S. Pat. No. 6,095,984 ("Amano")

APPLE-1021 B.K. Bootsma et. al, "Analysis of R-R intervals in patients with atrial fibrillation at rest and during exercise." Circulation 1970; 41:783-794



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	Attorney Docket No. 30093-00341F1
APPLE-1022	Frits L. Meijler and Fred H. M. Wittkampf, "Role of the Atrioventricular Node in Atrial Fibrillation" Atrial Fibrillation: Mechanisms and Management, 2nd ed. 1997 ("Meijler")
APPLE-1023	Heart Diseases _ Definition of Heart Diseases by Merriam-Webster
APPLE-1024	Acharya UR, Joseph KP, Kannathal N, Lim CM, Suri JS. Heart rate variability: a review. Med Biol Eng Comput. 2006 Dec; 44(12):1031-51 ("Acharya 2006")
APPLE-1025	Saime Akdemir Akar, Sadık Kara, Fatma Latifoğlu, Vedat Bilgiç. Spectral analysis of photoplethysmographic signals: The importance of preprocessing. Biomedical Signal Processing and Control, 2013; 8(1):16-22 (Akar 2013)
APPLE-1026	U.S. Provisional Application No. 61/915,113
APPLE-1027	U.S. Provisional Application No. 61/953,616
APPLE-1028	U.S. Provisional Application No. 61/969,019
APPLE-1029	U.S. Provisional Application No. 61/970,551
APPLE-1030	U.S. Provisional Application No. 62/014516
APPLE-1031	U.S. Patent Publication No. 2012/0203491 ("Sun")
APPLE-1032	U.S. Patent No. 9,808,206 ("Zhao")
APPLE-1033	Kleiger RE, Stein PK, Bigger JT Jr. Heart rate variability: measurement and clinical utility. Ann Noninvasive Electrocardiol. 2005 Jan; 10(1):88-101 ("Kleiger 2005")
APPLE-1034	Chen Z, Brown EN, Barbieri R. Characterizing nonlinear heartbeat dynamics within a point process framework. IEEE Trans Biomed Eng. 2010 Jun; 57(6):1335-47 ("Chen 2010")



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APPLE-1035 Karvonen, J., Vuorimaa, T. Heart Rate and Exercise Intensity During Sports Activities. Sports Medicine 5, 303–311 (1988)

("Karvonen 1988")

APPLE-1036 Yu C, Liu Z, McKenna T, Reisner AT, Reifman J. A method

for automatic identification of reliable heart rates calculated from ECG and PPG waveforms. J Am Med Inform Assoc. 2006

May-Jun; 13(3):309-20 ("Yu 2006")

APPLE-1037 AliveCor v Apple ITC Complaint Exhibit 11 (499 Infringement

Chart)

APPLE-1038 Tavassoli, M, Ebadzadeh, MM, Malek H. (2012). Classification

of cardiac arrhythmia with respect to ECG and HRV signal by

genetic programming. Canadian Journal on Artificial

Intelligence, Machine Learning and Pattern Recognition. 3. 1-

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APPLE-1039 Asl BM, Setarehdan SK, Mohebbi M. Support vector machine-

based arrhythmia classification using reduced features of heart rate variability signal. Artif Intell Med. 2008 Sep; 44(1):51-64

("Asl 2008")

APPLE-1040 Yaghouby F., Ayatollahi A. (2009) An Arrhythmia

Classification Method Based on Selected Features of Heart Rate Variability Signal and Support Vector Machine-Based Classifier. In: Dössel O., Schlegel W.C. (eds) World Congress on Medical Physics and Biomedical Engineering, September 7 -12, 2009, Munich, Germany. IFMBE Proceedings, vol 25/4.

Springer, Berlin, Heidelberg ("Yaghouby 2009")

APPLE-1041 Dallali, A, Kachouri, A, Samet, M. (2011). Integration of HRV,

WT and neural networks for ECG arrhythmias classification. ARPN Journal of Engineering and Applied Sciences. VOL. 6.

74-82 ("Dallali 2011")

APPLE-1042 Sajda P. Machine learning for detection and diagnosis of

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