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UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

FITBIT, INC., Petitioner,

V.

VALENCELL, INC., Patent Owner.

Case IPR2017-01556 U.S. Patent No. 8,923,941

PATENT OWNER PRELIMINARY RESPONSE PURSUANT TO 35 U.S.C. § 313 and 37 C.F.R. § 42.107

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TABLE OF EXHIBITS

Exhibit No.	Description
2001	Skip West, Valencell and RapidSOS Honored with CTA's
	2016 Innovation Entrepreneur Awards
2002	Biometrics Lab: Performance of Leading Optical Heart Rate
	Monitors During Interval Exercise Conditions
2003	Valencell website (http://valencell.com/customers/)
2004	Electrical (ECG) vs. Optical-based (PPG) Biosensors in
	Wearable Devices
2005	Estimating Respiratory and Heart Rates from the Correntropy
	Spectral Density of the Photoplethysmogram,
2006	Continuous blood pressure measurement by using the pulse
	transit time: comparison to a cuff-based method
2007	How an LDV/LDA works



Pursuant to 35 U.S.C. § 313 and 37 C.F.R. § 42. 107, Patent Owner Valencell, Inc. ("Valencell" or "Patent Owner") hereby files this preliminary response ("Preliminary Response") to the Petition (Paper 2) (the "Petition") for *Inter Partes* Review of U.S. Patent No. 8,923,941 (Ex. 1001) (the "'941 Patent") in IPR2017-01556 filed by Fitbit, Inc. ("Fitbit" or "Petitioner"). The Board should deny institution because Petitioner has not established that "there is a reasonable likelihood that the petitioner would prevail with respect to at least 1 of the claims challenged in the petition." 35 U.S.C. § 314(a).

This Response is timely under 35 U.S.C. § 313 and 37 C.F.R. § 42.107(b), as it is filed within three months of the June 16, 2017 mailing date of the Notice of Filing Date Accorded to Petition and Time for Filing Patent Owner Preliminary Response (Paper 4). For purposes of this Preliminary Response, Patent Owner has limited its identification of deficiencies in the Petition and does not intend to waive any arguments not addressed in this Preliminary Response. Valencell submits this Preliminary Response subject and without prejudice to its opposition to Petitioner's Motion for Joinder (Paper 7).

I. INTRODUCTION

The '941 Patent is part of a family of patents directed to biometric sensor technology for wearables and hearables. The Petition presents four Grounds for



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