UNITED STATES PATENT AND TRADEMARK OFFICE
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BEFORE THE PATENT TRIAL AND APPEAL BOARD
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SAMSUNG ELECTRONICS CO., LTD. AND DELL TECHNOLOGIES INC.,
and ANKER INNOVATIONS LTD.,[1]
Petitioners,

v.

MYPAQ HOLDINGS LTD.,
Patent Owner.
_____

Case No. IPR2022-00311
Patent 8,477,514
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REPLY DECLARATION OF DR. SAYFE KIAEI

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[1] Anker Innovations Ltd. filed a motion for joinder and a petition in IPR2022-

01134 and has been joined as a petitioner in this proceeding.

TABLE OF CONTENTS

Declaration of Dr. Sayfe Kiaei

I.   INTRODUCTION

1.   I have been retained by Samsung Electronics Co., Ltd. ("Samsung") and Dell Technologies Inc. ("Dell") as an independent expert consultant in this proceeding before the United States Patent and Trademark Office ("PTO").

2.   My compensation is in no way contingent on the nature of my findings, the presentation of my findings in testimony, or the outcome of this or any other proceeding. I have no other interest in this proceeding.

3.   I have been asked to consider whether certain references disclose or suggest features recited in the claims of U.S. Patent No. EX1001 – US8477514B2 ("the '514 patent") (EX1001).[2]   The opinions below supplement those set forth in my initial declaration (EX1002) in this matter. My qualifications remain the same as stated in Paragraphs 4-23 of my initial declaration (EX1002) in this matter.

4.   I make this declaration based upon my own personal knowledge and, if called upon to testify, would testify competently to the matters contained herein.

II.   "SYSTEM OPERATIONAL STATE OF SAID LOAD" (CLAIM 1)

5.   Claim 1 of the '514 Patent recites, among other elements, "a power converter controller configured to receive a signal from said load indicating a system

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[2] Where appropriate, I refer to exhibits that I understand are, or will be, filed in this *inter partes* review ("IPR") of the '514 patent.

operational state of said load and control an internal operating characteristic of said power converter as a function of said signal." EX1001, claim 1. I understand that Patent Owner ("PO") and its expert, Dr. Ferrese, dispute whether *Chagny* (EX1004) and *Hwang* (EX1006) disclose a "system operational state of said load." Patent Owner Response (Paper 17) ("POR") at 18-23 (*Chagny* grounds), 41-44 (*Hwang* grounds); EX2018 (Ferrese Declaration), ¶¶ 50-58 (*Chagny* grounds), 100-108 (*Hwang* grounds). As I explain below, it is my opinion that the arguments of Patent Owner and its expert, Dr. Ferrese, are based on an incorrect interpretation of the claims.

A. Patent Owner and its Expert Reply on an Incorrect Interpretation of "System Operational State of Said Load"

6. I understand that Patent Owner states it "interprets all claim terms in accordance with their ordinary and customary meaning." POR, 16. However, as I explain herein, it is my opinion that Patent Owner applies an incorrect interpretation of the phrase "system operational stat of said load."

7. I understand that Patent Owner contends that a "POSITA would understand that the term 'system operational state' as it pertains to engineering systems, refers to the way in which the system as a whole is being employed or utilized." POR, 18; *see also* EX2018 (Ferrese Declaration), ¶ 51. I understand that Patent Owner further cites the '514 Patent at 9:14-27 for examples of "system operational states," and then contends that each of these examples "indicates the

current or future operational state of the load in a ***particular context***, not simply the current activity level of the processor." POR, 19-20 (emphasis added); *see also* EX2018 (Ferrese Declaration), ¶ 52. PO adds that the system operational state is "driven by various factors, including ***external requirements***, and is ultimately dependent on the context in which the system is being utilized." POR, 21 (emphasis added); *see also* EX2018 (Ferrese Declaration), ¶ 54. As I explain below, Patent Owner's characterization of examples of "system operational states" is incomplete, and with respect to certain examples, incorrect. Patent Owner's resulting interpretation of "system operational state" is also incorrect.

8.   In my opinion, Patent Owner's requirement of "particular context" regarding how the system as a whole is being employed or utilized contradicts the plain language of the claims and also conflicts with examples of system operational states in the patent specification. First, Patent Owner's interpretation conflicts with the plain language of the claim. Claim 1 recites a "a signal indicating a system operational state *of said load*." EX1001, Claim 1. The plain language dictates that the "system operational state" is a state "*of said load.*" Thus, in my opinion, there is no basis for injecting a "particular context" requirement external to the load as argued by Patent Owner.

9.   Additionally, Patent Owner's interpretation excludes embodiments disclosed in the specification. The '514 Patent discloses examples of a system

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