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Content

17 Replacements

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UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

APPLE INC.,
Petitioner,

v.

Zentian Limited
Patent Owner.



Case IPR2023-00037
Patent No. 10,971,140

PATENT OWNER'S RESPONSE
[CORRECTED]

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EXHIBIT LIST

Exhibit No.	Description
2017	Deposition of Christopher Schmandt dated September 6, 2023
2018	<i>Intentionally left blank</i> 
2019	Hennessy & Patterson, <i>Computer Architecture, A Quantitative Approach</i> , Third Edition (2003) (“Hennessy & Patterson”)
2020	Declaration of  David Anderson, Ph.D
2021	Binu K. Mathew et al., A Gaussian Probability Accelerator for SPHINX 3, (“Mathew I”)

I. Introduction

The Petition proposes that an ordinary speech recognition artisan would have been motivated to implement Jiang's speech recognition teachings in Chen's clustered processor and memory architecture with a reasonable expectation of success.

But neither Jiang nor Chen enables such a combination, so the Petition must prove enablement through evidence outside those references. The Petition and Mr. Schmandt, however, fail to make that showing. Indeed, Mr. Schmandt admitted under cross-examination that he has *never* built or designed the processor to memory architecture for any of the speech recognition systems he identifies in the background of his declaration. Mr. Schmandt further admitted he has never supervised anyone in the process of mapping speech recognition software to a hardware architecture like Chen's.

As Dr. Anderson explains in detail, the Petition's combination would have raised a number of complications and conflicts that the POSA would not have been qualified to address or resolve. Indeed, Jiang and Chen are inherently ill-suited for combination, since Jiang's technique requires extensive communication between computational components whereas Chen does not allow communication between some of its processors and memories.

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