

DOCKET NO.: 0107131-00573US1

Filed on behalf of Intel Corporation

By: David L. Cavanaugh, Reg. No. 36,476

John V. Hobgood, Reg. No. 61,540

Benjamin S. Fernandez, Reg. No. 55,172

Gregory H. Lantier, *pro hac vice*

Wilmer Cutler Pickering Hale and Dorr LLP

1875 Pennsylvania Ave., NW

Washington, DC 20006

Tel: (202) 663-6000

Email: David.Cavanaugh@wilmerhale.com

John.Hobgood@wilmerhale.com

Ben.Fernandez@wilmerhale.com

Gregory.Lantier@wilmerhale.com

UNITED STATES PATENT AND TRADEMARK OFFICE

---

**BEFORE THE PATENT TRIAL AND APPEAL BOARD**

---

INTEL CORPORATION

Petitioner

v.

QUALCOMM INCORPORATED,

Patent Owner

Case IPR2019-00047

U.S. Patent No. 9,154,356

**DECLARATION OF PATRICK FAY, PH. D. IN SUPPORT OF  
PETITIONER'S REPLY**

Intel 1039

Intel v. Qualcomm

**TABLE OF CONTENTS**

	Page
I. INTRODUCTION .....	1
II. QUALIFICATIONS .....	2
III. RELEVANT LAW .....	2
IV. LEVEL OF ORDINARY SKILL IN THE ART .....	3
V. REBUTTAL TO PATENT OWNER’S RESPONSE AND DR. FOTY’S OPINIONS.....	4
A. Patent Owner’s Proposed Claim Construction is Incorrect and Overly Narrow .....	4
1. “Carrier Aggregation” Construed in Accordance With its Broadest Reasonable Interpretation .....	4
2. Patent Owner’s Proposed Construction of “Carrier Aggregation” is Narrower than the Broadest Reasonable Interpretation of that Term in Light of the Specification .....	5
3. The Intrinsic Evidence Does Not Support Patent Owner’s Construction .....	5
4. Prosecution Disclaimer Does Not Limit the Broadest Reasonable Interpretation Here.....	9
5. A POSITA Would Not Find Patent Owner’s Citation to Extrinsic Evidence Helpful in Understanding How the ’356 Patent Defines “Carrier Aggregation” .....	12
6. Petitioner’s Proposed BRI Construction Does Not Read Out “Aggregation” .....	12
B. Ground I: Anticipation by Uehara.....	15
1. Uehara Discloses First and Second Amplifier Stages Configured to be Independently Enabled or Disabled.....	15
2. Uehara Discloses the Claimed Providing the First/Second Output RF Signals to the First/Second Load Circuits .....	21
3. Uehara Discloses the Input RF Signal Employing Carrier Aggregation.....	23

C.	Ground II: Obviousness of Claims 7 and 8 Over Uehara in View of Perumana .....	25
D.	Ground III: Obviousness of Claim 10 Over Uehara in View of Youssef .....	26
E.	Ground IV: Claims 1, 11, 17, and 18 are Obvious over Uehara in View of Feasibility Study.....	28
	1. The Feasibility Study is Analogous Art.....	28
	2. The Petition Establishes the Reasons to Combine Uehara and the Feasibility Study .....	30
	3. Patent Owner’s Additional Arguments.....	32
F.	Ground V: Claims 7 and 8 are Obvious Over Uehara, Feasibility Study, and Perumana.....	32
G.	Ground VI: Claim 10 is Obvious Over Uehara, Feasibility Study, and Youssef.....	33
VI.	AVAILABILITY FOR CROSS-EXAMINATION .....	33
VII.	RIGHT TO SUPPLEMENT .....	34
VIII.	JURAT .....	34

I, Patrick Fay, declare as follows:

## **I. INTRODUCTION**

1. I have been retained by Intel Corporation (“Intel” or “Petitioner”) as an independent expert consultant in this proceeding before the United States Patent and Trademark Office. I previously prepared and submitted a Declaration in support of the Petition in this proceeding, dated November 8, 2018 (Ex. 1002).

2. Since preparing my initial Declaration, I have reviewed Qualcomm’s Patent Owner’s Preliminary Response (“POPR”), the Board’s Decision on Institution (“DOI”), Patent Owner’s Response (“POR”), Dr. Foty’s declaration submitted in support of the POR (Ex. 2024), and the transcript of Dr. Foty’s deposition on November 8, 2019 (Ex. 1040). I have been asked to review and respond to Dr. Foty’s opinions, including those reflected in the POR, as well as the Board’s Decision on Institution.

3. I am being compensated for my work on this matter, but my opinions are based on my own views of the patented technology and the prior art. My compensation in no way depends on the outcome of this proceeding or the content of my testimony.

4. In preparing this Declaration, I reviewed and considered the specification, claims, and file history of U.S. Patent No. 9,154,356 (“’356 patent”) (Ex. 1001). I have been informed the ’356 patent has a priority date of August 21,

2012. I have also reviewed and considered the documents cited by Dr. Foty in his declaration (Ex. 2024). Additionally, I have reviewed the related Reply, which I understand Intel will file at the United States Patent and Trademark Office (USPTO) at the same time as this Declaration is filed at the USPTO.

5. I have also reviewed all of the documents I cite in this declaration.

## II. QUALIFICATIONS

6. I describe my qualifications in my first Declaration. Ex. 1002, ¶¶2-9.

## III. RELEVANT LAW

7. In my first Declaration, I set forth the applicable principles of patent law that were provided to me by counsel. Ex. 1002, ¶¶15-30. As appropriate, I have continued to apply those principles in providing my opinions in this Declaration. In addition, I understand that the following legal principles apply, as explained to me by Intel's legal counsel.

8. I am not an attorney. For the purposes of this declaration, I have been informed about certain aspects of the law that are relevant to my opinions. My understanding of the law is as follows.

9. I have been informed and understand that the Petitioner in an *inter partes* review Petition may request cancellation of claims as unpatentable only on grounds that such claims are anticipated or would have been obvious to a person of ordinary skill in the art at the time of the purported invention, and only on the basis

# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

## LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

## FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

## E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.