

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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APPLE INC.,

Petitioner,

v.

UNIVERSAL SECURE REGISTRY, LLC,

Patent Owner.

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Case IPR2018-00810

U.S. Patent No. 9,100,826

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**DECLARATION OF DR. VICTOR SHOUP IN SUPPORT OF  
PETITIONER'S REPLY TO PATENT OWNER'S RESPONSE**

Apple 1018  
Apple. v. USR  
IPR2018-00810

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I, Victor Shoup, Ph.D., declare as follows:

**I. INTRODUCTION**

1. I have been retained by Apple to provide opinions in this proceeding relating to U.S. Patent No. 9,100,826 (“’826 patent”). I submit this Declaration to address and respond to the arguments made in Patent Owner’s Response and the declaration submitted by Dr. Jakobsson in support of the Patent Owner’s Response.

2. My background and qualifications are summarized in my previous declaration (Ex-1002) and my curriculum vitae is attached thereto as Appendix A.

In preparing this Declaration, I have reviewed the following materials and the relevant exhibits cited in each of these filings:

- Petition (“Pet.”) (Paper No. 3) and the exhibits cited therein
- Decision on Institution (Paper No. 8)
- Corrected Patent Owner’s Response (“POR”) (Paper No. 18) and the exhibits cited therein
- Declaration of Markus Jakobsson In Support Of Patent Owner Response (“Jakobsson Decl.”) (Ex-2003)
- Conditional Motion to Amend (Paper No. 19) (“CMTA”)
- Declaration of Markus Jakobsson In Support of CMTA (Ex-2013)
- Transcript of March 20, 2019 deposition of Markus Jakobsson (“Jakobsson Dep.”) (Ex-1017)
- Declaration of Dr. Ari Juels In Support Of Petitioner’s Reply (Ex-1020)

## II. LEGAL PRINCIPLES

3. I am not an attorney. For purposes of this Declaration, I have been informed about certain aspects of the law that are relevant to my analysis and opinions.

### A. Claim Construction

4. I have been informed that claim construction is a matter of law and that the final claim construction will be determined by the Board.

5. I have been informed that the claim terms in an IPR review should be given their broadest reasonable construction in light of the specification as commonly understood by a person of ordinary skill in the art (“POSITA”). I have applied this standard in my analysis.

### B. Obviousness

6. I have been informed and understand that a patent claim can be considered to have been obvious to a POSITA at the time the application was filed. This means that, even if all the requirements of a claim are not found in a single prior art reference, the claim is not patentable if the differences between the subject matter in the prior art and the subject matter in the claim would have been obvious to a POSITA at the time the application was filed.

7. I have been informed and understand that a determination of whether a claim would have been obvious should be based upon several factors, including, among others:

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