

Declaration of Dr. Victor Shoup in support of Petition for
Covered Business Method Review of U.S. Patent No. 8,577,813

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Filed on behalf of Apple Inc.

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UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

APPLE INC.,

Petitioner,

v.

UNIVERSAL SECURE REGISTRY, LLC,

Patent Owner.

Case CBM2018-00024

U.S. Patent No. 8,577,813

DECLARATION OF DR. VICTOR SHOUP IN SUPPORT OF
PETITION FOR COVERED BUSINESS METHOD REVIEW

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TABLE OF CONTENTS

TABLE OF CONTENTS	i
I. BACKGROUND.....	1
II. LEGAL PRINCIPLES	3
A. Claim Construction.....	3
B. Obviousness	4
III. DESCRIPTION OF THE RELEVANT FIELD AND THE RELEVANT TIMEFRAME	6
IV. THE '813 PATENT	7
A. Specification and Claims	7
B. Prosecution History	10
V. LEVEL OF ORDINARY SKILL	12
VI. GROUNDS FOR STANDING (37 C.F.R. § 42.304(A)).....	13
A. The '813 Patent Qualifies As A CBM Patent (37 C.F.R. § 42.301).....	13
1. At Least One Claim Of The '813 Patent Is A Method Or Corresponding System Used In The Practice, Administration, Or Management Of A Financial Product Or Service.....	13
2. The '813 Patent Is Not Directed To A “Technological Invention”.....	14
VII. CLAIM CONSTRUCTIONS.....	21
A. Biometric Input.....	22
B. Secret Information	24

Declaration of Dr. Victor Shoup in support of Petition for Covered Business Method Review of U.S. Patent No. 8,577,813

C.	Authentication Information	24
D.	Point-of-Sale Device.....	25
E.	Secure Registry	26
VIII.	CLAIMS 1-2, 4-11, 13-20, AND 22-26 OF THE '813 PATENT ARE UNPATENTABLE UNDER 35 U.S.C. § 103	27
A.	Prior Art Patents and Printed Publications	27
1.	Ex-1213 – Maes	27
2.	Ex-1214 - Jakobsson	27
3.	Ex-1215 - Maritzen	28
4.	Ex-1216 - Labrou	29
B.	Ground 1: Claims 1-2, 4-5, 11, 13, 16-20, and 24 Are Obvious in View of Maes and Jakobsson	29
1.	Independent Claim 1	29
2.	Dependent Claim 2.....	55
3.	Dependent Claim 4.....	57
4.	Dependent Claim 5.....	59
5.	Dependent Claim 11.....	60
6.	Dependent Claim 13.....	61
7.	Independent Claim 16	62
8.	Dependent Claim 17.....	65
9.	Dependent Claim 18.....	65
10.	Dependent Claim 19.....	66
11.	Dependent Claim 20.....	69

Declaration of Dr. Victor Shoup in support of Petition for Covered Business Method Review of U.S. Patent No. 8,577,813

12.	Independent Claim 24	70
C.	Ground 2: Claims 6-10 Are Obvious in View of Maes, Jakobsson, and Maritzen.....	73
1.	Dependent Claim 6.....	73
2.	Reasons to Combine Maes, Jakobsson, and Maritzen	75
3.	Dependent Claim 7.....	80
4.	Dependent Claim 8.....	82
5.	Dependent Claim 9.....	83
6.	Dependent Claim 10.....	84
D.	Ground 3: Claims 14, 15, 22, 23, 25, and 26 Are Obvious in View of Maes, Jakobsson, and Labrou.....	89
1.	Dependent Claims 14, 15, 22, 23, 25, and 26	89
2.	Reasons to Combine Maes, Jakobsson, and Labrou	91
IX.	CONCLUSION.....	97
X.	AVAILABILITY FOR CROSS-EXAMINATION.....	97
XI.	RIGHT TO SUPPLEMENT	98
XII.	JURAT	99

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

1. My name is Victor Shoup.
2. I have been retained by Apple to provide opinions in this proceeding relating to U.S. Patent 8,577,813 (“’813 patent”).

I. BACKGROUND

3. I received a Bachelor of Science in Computer Science and Mathematics from the University of Wisconsin at Eau Claire in 1983. I received my Doctorate in Computer Science from the University of Wisconsin at Madison in 1989. I worked as a research scientist at Bellcore from 1995 to 1997 and at IBM Research Zurich from 1997 to 2002. My work there included design of cryptographic protocols such as a new public key cryptosystem (now called the Cramer-Shoup cryptosystem) that achieved higher levels of security than were previously thought possible in a practical scheme.

4. I have been Professor of Computer Science at the Courant Institute of Mathematical Sciences at New York University since 2002 (initially as an Associate Professor, and as a Professor since 2007). I teach a variety of graduate and undergraduate courses on cryptography. Since 2012, I have also been a part-time visiting researcher at the IBM T. J. Watson Research Center in Yorktown, New York, where I collaborate with the Cryptography Research Group, which does work on a range of projects from the theoretical foundations of cryptography

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