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IN THE UNITED STATES DISTRICT COURT
FOR THE CENTRAL DISTRICT OF CALIFORNIA

BLACKBERRY LIMITED, a)
Canadian corporation,)

Plaintiff,)

v.)

SNAP INC., a Delaware corporation,)
Defendant.)

CASE NO. 2:18-cv-02693
GW(KSx)

**DECLARATION OF PATRICK
MCDANIEL, PH.D.
REGARDING CLAIM
CONSTRUCTION**

1 I, Patrick McDaniel, Ph.D., declare as follows:

2 **I. Introduction**

3 1. My name is Patrick McDaniel, Ph.D.

4 2. I have been retained by counsel for Plaintiff BlackBerry Limited
5 (“BlackBerry”) as an expert in this litigation to provide opinions concerning certain
6 claim terms in U.S. Patent No. 8,326,327 (’327 Patent) and U.S. Patent No.
7 8,825,084 (’084 Patent) (together, the “Action Spots Patents”).

8 3. I am being compensated at my standard billing rate of \$600 per hour
9 for time spent on this matter.

10 4. My compensation is in no way dependent on the outcome of this
11 investigation.

12 **II. Background And Qualifications**

13 5. My qualifications for forming the opinions in this report are
14 summarized here. I earned a Ph.D. in Computer Science and Engineering from
15 University of Michigan, Ann Arbor in 2001. I earned a Bachelor of Science degree
16 in Computer Science from Ohio University in 1989 and a Master of Science degree,
17 also in Computer Science, from Ball State University in 1991.

18 6. Since 2017, I have been the William L. Weiss Professor of Information
19 and Communications Technology in the School of Electrical Engineering and
20 Computer Science at the Pennsylvania State University in University Park,
21 Pennsylvania. I am also the director of the Institute for Network and Security
22 Research, director of the National Science Foundation Funded Center for
23 Trustworthy Machine Learning, and founder and co-director of the Systems and
24 Internet Infrastructure Security Laboratory, a research laboratory focused on the
25 study of security in diverse network and computer environments. My research
26 efforts primarily involve computer systems, mobile device systems and security,

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1 network, management, and authentication, systems security, and technical public
2 policy.

3 7. Before my current position, I was an Assistant Professor (2004-2007),
4 Associate Professor (2007-2011), Full Professor (2011-2015), and Distinguished
5 Professor of Computer Science and Engineering at the Pennsylvania State
6 University. Since 2004, I have taught several courses in the field of computer
7 systems, systems programming, networks, and network and computer security at
8 both the undergraduate and graduate level. I created and continue to maintain
9 several of these courses for Penn State.

10 8. From 2003-2009, I was also an Adjunct Professor at the Stern School
11 of Business at New York University in New York, NY. At the Stern School of
12 Business, I taught courses in computer and network security and online privacy.

13 9. I am a Fellow of the Association for Computing Machinery (the leading
14 professional association for computer science) for “contributions to computer and
15 mobile systems security” and the Institute for Electrical and Electronics Engineering
16 (the leading professional association for computer engineering) for “contributions to
17 the security of mobile communications”.

18 10. I was the Program Manager (PM) and lead scientist for the Cyber
19 Security Collaborative Research Alliance (CRA) from 2012 to 2018. The CRA is
20 led by Penn State University and includes faculty and researchers from the Army
21 Research Laboratory, Carnegie Mellon University, Indiana University, the
22 University of California-Davis, and the University of California-Riverside. This
23 national scale initiative is a research project aimed at developing a new science of
24 cyber-security for military networks, computers, and installations.

25 11. I have served as an advisor to several Ph.D. and master’s degree
26 candidates, several of whom have gone on to become professors at various
27 institutions such as North Carolina State University, the University of Oregon, and
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1 the Georgia Institute of Technology. I am currently an advisor to two Ph.D.
2 candidates and a number of master's students.

3 12. Before joining Pennsylvania State University as a professor, I was a
4 software developer and project manager for companies in the networking industry
5 including Applied Innovation, Inc. and Primary Access Corporation. I was also a
6 senior researcher at AT&T Research-Labs. As part of my duties in these industrial
7 positions, I designed and implemented online services and features such as those at
8 issue in this case.

9 13. I have published extensively in the field of network and security
10 management, mobile networking and device operating systems, computer systems.
11 authentication, systems security, applied cryptography and network security. In
12 addition to writing several articles for industry journals and conferences, I have
13 authored portions of numerous books related to computer systems, applied
14 cryptography and network security. I have served on the editorial boards of several
15 peer-reviewed journals including ACM Transactions on Internet Technology, for
16 which I was the Editor-in-Chief. I was also an Associate Editor for ACM
17 Transactions on Information and System Security and IEEE Transactions of
18 Software Engineering, two highly-regarded journals in the field. A complete list of
19 my publications in the last 10 years, as well as a list of editorial positions can be
20 found in *curriculum vitae*, as attached as Exhibit A.

21 14. In view of the foregoing, I am qualified to testify as one skilled in the
22 art with respect to the technology at issue in this matter.

23 **III. Applicable Legal Standards**

24 15. I understand that claim construction is an issue of law for the Court to
25 decide.

26 16. I further understand that claim terms should be given their ordinary and
27 customary meaning within the context of the patent in which the terms are used, i.e.,
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1 the meaning that the term would have to a person of ordinary skill in the art in
2 question at the time of the invention in light of what the patent teaches.

3 17. I understand that to determine how a person of ordinary skill would
4 understand a claim term, one should look to those sources available that demonstrate
5 what a person of skill in the art would have understood disputed claim language to
6 mean. Such sources include the words of the claims themselves, the remainder of
7 the patent's specification, the prosecution history of the patent (all considered
8 "intrinsic" evidence), and "extrinsic" evidence concerning relevant scientific
9 principles, the meaning of technical terms, and the state of the art.

10 18. I understand that words or terms should be given their ordinary and
11 accepted meaning unless it appears that the inventors were using them to mean
12 something else. In making this determination, of paramount importance are the
13 claims, the patent specification, and the prosecution history. Additionally, the
14 specification and prosecution history must be consulted to confirm whether the
15 patentee has acted as its own lexicographer (i.e., provided its own special meaning
16 to any disputed terms), or intentionally disclaimed, disavowed, or surrendered any
17 claim scope. I understand that the specification can effectively act as a dictionary
18 when it expressly defines terms used in the claims or when it defines terms by
19 implication.

20 19. A claim construction analysis must begin and remain centered on the
21 claim language itself. Additionally, the context in which a term is used in the
22 asserted claim can be highly instructive. Likewise, other claims of the patent in
23 question, both asserted and unasserted, can inform the meaning of a claim term. For
24 example, because claim terms are normally used consistently throughout the patent,
25 the usage of a term in one claim can often illuminate the meaning of the same term
26 in other claims. Differences among claims can also be a useful guide in
27 understanding the meaning of particular claim terms.

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