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|---|--|-----------------------------|--|--|--|--|
| 1 2 3 4 5 6 7 8 9 | Michael A. Sherman (SBN 94783) masherman@stubbsalderton.com Jeffrey F. Gersh (SBN 87124) jgersh@stubbsalderton.com Sandeep Seth (SBN 195914) sseth@stubbsalderton.com Wesley W. Monroe (SBN 149211) wmonroe@stubbsalderton.com Stanley H. Thompson, Jr. (SBN 198825) sthompson@stubbsalderton.com Viviana Boero Hedrick (SBN 239359) vhedrick@stubbsalderton.com STUBBS, ALDERTON & MARKILES, LLP 15260 Ventura Blvd., 20 th Floor Sherman Oaks, CA 91403 Telephone: (818) 444-4500 Facsimile: (818) 444-4520 | | | | | |
| 10 | ATTORNEYS FOR PLAINTIFFS [ADDITIONAL ATTORNEYS LISTED | | | | | |
| 11 | BELOW] | | | | | |
| 12 | UNITED STATES DISTRICT COURT | | | | | |
| 13 | NORTHERN DISTRICT OF CALIFORNIA | | | | | |
| 14 | | DIVISION | | | | |
| 15 | IN RE PERSONALWEB TECHNOLOGIES, LLC, ET AL., PATENT LITIGATION | CASE NO.: 5:18-md-02834-BLF | | | | |
| 16 | | FIRST AMENDED COMPLAINT | | | | |
| 17 | | DEMAND FOR JURY TRIAL | | | | |
| 18 | | | | | | |
| 19 | PERSONALWEB TECHNOLOGIES, LLC, a Texas limited liability company, and | Case No.: 5:18-cv-00166-BLF | | | | |
| 20 | LEVEL 3 COMMUNICATIONS, LLC, a Delaware limited liability company, | | | | | |
| 21 | Plaintiffs, | | | | | |
| 22 | V. | | | | | |
| 23 | UNDER ARMOUR, INC., a Maryland | | | | | |
| 24 | corporation, | | | | | |
| 25 | Defendant. | | | | | |
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Plaintiff PersonalWeb Technologies, LLC ("Plaintiff" or "PersonalWeb") files this First
 Amended Complaint ("Complaint") for patent infringement against Defendant Under Armour, Inc.
 ("Defendant"). Plaintiff PersonalWeb Technologies, LLC alleges:

PRELIMINARY STATEMENT

PersonalWeb and Level 3 Communications, LLC ("Level 3") are parties to an
 agreement between Kinetech, Inc. and Digital Island, Inc. dated September 1, 2000 (the "Agreement").
 Pursuant to the Agreement, PersonalWeb and Level 3 each own a fifty percent (50%) undivided
 interest in and to the patents at issue in this action: U.S. Patent Nos. 6,928,442, 7,802,310, 7,945,544,
 and 8,099,420 ("Patents-in-Suit"). Level 3 has joined in this Complaint pursuant to its contractual
 obligations under the Agreement, at the request of PersonalWeb.

Pursuant to the Agreement, Level 3 has, among other rights, certain defined rights to
 use, practice, license, sublicense and enforce and/or litigate the Patents-in-Suit in connection with a
 particular field of use ("Level 3 Exclusive Field"). Pursuant to the Agreement PersonalWeb has,
 among other rights, certain defined rights to use, practice, license, sublicense, enforce and/or litigate
 the Patents-in-Suit in fields other than the Level 3 Exclusive Field (the "PersonalWeb Patent Field").

17 3. All infringement allegations, statements describing PersonalWeb, statements 18 describing any Defendant (or any Defendant's products) and any statements made regarding 19 jurisdiction and venue are made by PersonalWeb alone, and not by Level 3. PersonalWeb alleges that 20 the infringements at issue in this case all occur within, and are limited to, the PersonalWeb Patent 21 Field. Accordingly, PersonalWeb has not provided notice to Level 3—under Section 6.4.1 of the 22 Agreement or otherwise—that PersonalWeb desires to bring suit in the Level 3 Exclusive Field in its 23 own name on its own behalf or that PersonalWeb knows or suspects that Defendant is infringing or 24 has infringed any of Level 3's rights in the patents.

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THE PARTIES

4. Plaintiff PersonalWeb Technologies, LLC is a limited liability company duly organized
 and existing under the laws of Texas with its principal place of business at 112 E. Line Street, Suite
 204, Tyler, TX 75702.

5 5. Plaintiff Level 3 Communications, LLC is a limited liability company organized under
6 the laws of Delaware with its principal place of business at 100 CenturyLink Drive, Monroe,
7 Louisiana, 71203.

8 6. PersonalWeb's infringement claims asserted in this case are asserted by PersonalWeb
9 and all fall outside the Level 3 Exclusive Field. Level 3 is currently not asserting patent infringement
10 in this case in the Level 3 Exclusive Field against any Defendant.

7. 11 Defendant Under Armour, Inc. is, upon information and belief, a Maryland corporation having a principal place of business and regular and established place of business at 1020 Hull Street, 12 13 Baltimore, Maryland 21230. As originally alleged in the Complaint against Defendant filed on or 14 about January 8, 2018, PersonalWeb alleged on information and belief that MyFitnessPal, Inc. owned 15 the infringing website at issue in this action, myfitnesspal.com. MyFitnessPal, Inc.'s principal place 16 of business and regular and established place of business was on information and belief 525 Brannan 17 Street, Suite 300, San Francisco, California 94107. On information and belief, Under Armour Inc. 18 acquired MyFitnessPal, Inc., and MyFitnessPal, Inc. is now a surrendered entity. By this allegation, 19 PersonalWeb apprises Defendant Under Armour, Inc. of its intention to seek leave from the transferee 20 court to modify the stay in place in this action to permit transfer of venue pursuant to 28 U.S.C. 21 \$1406(a) to the District of Maryland and such other relief consistent with the foregoing, including any 22 appropriate relief, if necessary, from the Judicial Panel on Multidistrict Litigation.

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JURISDICTION AND VENUE

- 8. The court has subject matter jurisdiction pursuant to 28 U.S.C. §§ 1331 and 1338(a)
 because this action arises under the patent laws of the United States, 35 U.S.C. §§ 1 *et seq*.
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- 9. Venue is proper in this federal district pursuant to 28 U.S.C. §§ 1391(b)–(c) and
 1400(b) because, on information and belief, Defendant has a regular and established place of business
 in the District of Maryland and has committed acts of infringement in such District.
- 4 10. Venue is also proper in this Court because this action has been transferred to this Court
 5 as a related case to the multidistrict litigation for coordinated or consolidated pretrial proceedings
 6 pursuant to 28 U.S.C. § 1407.

7 11. This court has personal jurisdiction over Defendant because, in addition to the
8 allegations in above paragraphs, on information and belief, Defendant is domiciled in the District of
9 Maryland. Further, on information and belief, Defendant purposefully directed activities at residents
10 of Maryland, the claims herein arise out of and relate to those activities, and assertion of personal
11 jurisdiction over Defendant would be fair.

12 12. On information and belief, Defendant is subject to this Court's jurisdiction because this
13 action has been transferred to this Court by as a related case to the multidistrict litigation for
14 coordinated or consolidated pretrial proceedings pursuant to 28 U.S.C. § 1407.

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PERSONALWEB BACKGROUND

17 13. The Patents-in-Suit cover fundamental aspects of cloud computing, including the
18 identification of files or data and the efficient retrieval thereof in a manner which reduces bandwidth
19 transmission and storage requirements.

14. The ability to reliably identify and access specific data is essential to any computer
system or network. On a single computer or within a small network, the task is relatively easy: simply
name the file, identify it by that name and its stored location on the computer or within the network,
and access it by name and location. Early operating systems facilitated this approach with standardized
naming conventions, storage device identifiers, and folder structures.

15. Ronald Lachman and David Farber, the inventors of the Patents-in-Suit, recognized
that the conventional approach for naming, locating, and accessing data in computer networks could
not keep pace with ever-expanding, global data processing networks. New distributed storage systems
use files that are stored across different devices in dispersed geographic locations. These different

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locations could use dissimilar conventions for identifying storage devices and data partitions.
 Likewise, different users could give identical names to different files or parts of files—or unknowingly
 give different names to identical files. No solution existed to ensure that identical file names referred
 to the same data, and conversely, that different file names referred to different data. As a result,
 expanding networks could not only become clogged with duplicate data, they also made locating and
 controlling access to stored data more difficult.

16. Lachman and Farber developed a solution: replacing conventional naming and storing
conventions with system-wide "substantially unique," content-based identifiers. Their approach
assigned substantially unique identifiers to "data items" of any type: "the contents of a file, a portion
of a file, a page in memory, an object in an object-oriented program, a digital message, a digital
scanned image, a part of a video or audio signal, or any other entity which can be represented by a
sequence of bits." Applied system-wide, this invention would permit any data item to be stored,
located, managed, synchronized, and accessed using its content-based identifier.

14 17. To create a substantially unique, content-based identifier, Lachman and Farber turned 15 to cryptography. Cryptographic hash functions, including MD4, MD5, and SHA, had been used in 16 computer systems to verify the integrity of retrieved data—a so-called "checksum." Lachman and 17 Farber recognized that these same hash functions could be devoted to a vital new purpose: if a 18 cryptographic hash function was applied to a sequence of bits (a "data item"), it would produce a 19 substantially unique result value, one that: (1) virtually guarantees a different result value if the data 20 item is changed; (2) is computationally difficult to reproduce with a different sequence of bits; and 21 (3) cannot be used to recreate the original sequence of bits.

18. These cryptographic hash functions would thus assign any sequence of bits, based on
content alone, with a substantially unique identifier. Lachman and Farber estimated that the odds of
these hash functions producing the same identifier for two different sequences of bits (i.e., the
"probability of collision") would be about 1 in 2 to the 29th power. Lachman and Farber dubbed their
content-based identifier a "True Name."

27 19. Using a True Name, Lachman and Farber conceived various data structures and
28 methods for managing data (each data item correlated with a single True Name) within a network—

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no matter the complexity of the data or the network. These data structures provide a key-map
organization, allowing for a rapid identification of any particular data item anywhere in a network by
comparing a True Name for the data item against other True Names for data items already in the
network. In operation, managing data using True Names allows a user to determine the location of
any data in a network, determine whether access is authorized, and to selectively provide access to
specific content not possible using the conventional naming arts.

On April 11, 1995, Lachman and Farber filed their patent application, describing these
and other ways in which content-based "True Names" elevated data-processing systems over
conventional file-naming systems. The first True Name patent issued on November 2, 1999. The last
of the Patents-in-Suit has expired, and the allegations herein are directed to the time period before
expiration of the last of the Patents-in-Suit.

12 21. PersonalWeb has successfully enforced its intellectual property rights against third
13 party infringers, and its enforcement of the Patents-In Suit is ongoing. This enforcement has resulted
14 in PersonalWeb obtaining settlements and granting non-exclusive licenses regarding the Patents-in15 Suit.

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GENERAL BACKGROUND

18 22. A webpage is a type of document that is typically retrieved over the World Wide Web, 19 made viewable and formatted (rendered) by a web browser, and displayed electronically. A "webpage" 20 often refers to what is visible in a browser, but sometimes also refers to a computer file ("webpage 21 base file"), usually written in Hypertext Markup Language ("HTML") or a comparable markup 22 language. Such HTML webpage base files typically include text, formatting, and references 23 (hyperlinks) to other web content, such as style sheets, scripts, and images that make up part of the 24 webpage. Web content referenced in an HTML or similar file are also called "asset files" herein. The 25 web browser coordinates the retrieval of the various asset files of a webpage and renders the webpage 26 for display from the webpage base file and the asset files referenced in the webpage base file or 27 referenced in other asset files.

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- 23. On the World Wide Web, hyperlinks generally include Uniform Resource Identifiers 1 2 ("URIs"), which each typically include an address of a server ("host") from which the asset file is to 3 be retrieved (e.g., "www.website.com"), a "path" to the location of that asset file on the host server (e.g., "/directory/"), and a filename (e.g., "filename.ext"). 4
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24. On the Internet, a web browser typically retrieves a webpage base file from a remote 6 web server and retrieves referenced asset files from the same or different servers. The web browser 7 retrieves a webpage base file or an asset file by making a GET "request" to a web server using the 8 Hypertext Transfer Protocol ("HTTP"), an industry standard. The web server may respond to such an 9 HTTP request with a HTTP "response" that includes the requested web content and may include other 10 information or instructions.

25. 11 A static webpage is delivered exactly as stored, as web content in the web server's file 12 system or memory. In contrast, a dynamic webpage is generated by a web server application, usually 13 driven by server-side software, upon receipt of a request from a browser (user). For example, a picture 14 of a building might be delivered as static content (a picture) whereas the latest traffic conditions may 15 be delivered dynamically based on real time traffic information.

16 26. The speed of a browser retrieving webpage base files and incorporated asset files can 17 be increased by the browser storing previously retrieved webpage base files and asset files in a browser 18 "cache" on the computer running the browser. If a browser's user later requests a previously retrieved 19 webpage base file or requests a webpage that includes an asset file previously used by the browser in 20 rendering the same or a different webpage (for example, by reloading a webpage or visiting the same 21 webpage again), the browser may use the cached webpage base file or asset file rather than having to 22 download the same file repeatedly over the Internet again.

23 27. Two computers communicating over the Internet usually are not directly connected to 24 each other but rather interact via chains of network appliances and other computers (e.g., "switches" 25 and "intermediate" servers). Many intermediate servers have caches similar to and complementing 26 the browser cache that store webpage base files and assets that pass through that intermediate server. 27 If a browser or server requests a file from the intermediate server that is present in that intermediate 28 server's cache, the intermediate server can use the content in its cache to respond to the request rather

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than send the request upstream towards the web server from which the file initially originated (also
 called the "origin server").

3 28. Responses to HTTP requests may include header elements (control elements) and a body (the "object" that was requested). Under HTTP, web servers can include a "cache-control" 4 5 header with a response that includes a webpage or asset file. A "cache-control" header includes one or more directives that instruct browsers and intermediate server caches ("intermediate caches") as to 6 7 whether and for how long the file (object) included in the response may be cached or under what 8 circumstances and under what conditions the cached content may be used. HTTP also provides for 9 including other headers in responses that provide similar types of instructions to browsers and 10 intermediate caches. Collectively, these other headers and directives in a "cache-control" header are 11 referred to herein as "cache-control headers."

12 29. Given that webpage content changes, sometimes rather quickly and regularly, a
13 problem that website owners face is effectively instructing a browser that is re-rendering a previously
14 cached webpage that one or more of its cached files for that webpage are no longer the correct and
15 authorized content (the content of those files has changed) and similarly reauthorizing the use of those
16 cached files whose content has not changed.

30. On one hand, website owners want to encourage the browsers that render their web
pages to use cached files thereby reducing the number of requests for these files that are being made
to their webpage servers. Therefore, they frequently will set cache-control headers that authorize the
browser to cache their webpage base files and asset files so the files are on hand when the browser
needs to render that webpage again. On the other hand, website owners want the browsers to use the
latest authorized files so that their users do not see the wrong content when viewing their webpage.

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DEFENDANT'S BACKGROUND

25 31. On information and belief, Defendant has operated a website located at
 26 <u>mvfitnesspal.com</u>, and has done so since before expiration of the last to expire of the Patents-in-Suit,
 27 which has operated to provide authorized webpage content to its users in the manner herein described.¹

¹ While the complaint is sometimes written in the present or present perfect tense, all specific 7

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1 32. On information and belief, Defendant's web servers utilized a system of notifications 2 and authorizations to control the distribution of content, *e.g.*, what webpage content may be served 3 from web servers and intermediate caches and what cached webpage content a browser is re-authorized 4 to use to render Defendant's webpage(s).

33. On information and belief, Defendant's system and its associated method of providing
webpage content used "conditional" HTTP GET requests with If-None-Match headers and associated
content-based ETag values for various webpage base files required to render various webpages of the
Defendant.

9 34. On information and belief, Defendant's system and its associated method of providing
10 webpage content also inserted fingerprints generated based on the content of asset files into the
11 filenames of asset files required to render various webpages of the Defendant.

35. On information and belief, Defendant's system and associated method used these
ETags and fingerprints to instruct both the intermediate cache servers and the endpoint caches at
browsers to verify whether they were still authorized to reuse the previously cached webpage base
files of Defendant and to instruct them to obtain newly authorized content in rendering Defendant's
webpage when that content had changed. In other words, whether the previously cached content was
still considered valid for use by the Defendant website operator.

18 36. On information and belief, Defendant thereby reduced the bandwidth and computation 19 required by its origin servers and any intermediate cache servers to field user requests to render 20 Defendant's webpages as those servers only need to serve files whose content has changed. On 21 information and belief, this has allowed for the efficient update of cached information only when such 22 content has changed, thereby reducing transaction overhead and bandwidth and allowing the 23 authorized content to be served from the nearest cache.

- 37. More particularly, on information and belief, each of Defendant's webpages included
 a webpage base file (*e.g.*, a main or initial HTML file) and one or more asset files referenced in the
 webpage base file (or referenced in other asset files that contained references to other asset files). On
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allegations are directed to the system's operations and the method's performance in the relevant time period.

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information and belief, the references in the webpage base file to the asset files needed to render the
 webpage were typically Uniform Resource Identifiers ("URIs"), which each typically included a
 filename, the address of a host server from which the asset file could be retrieved, and a "path" to the
 location of that asset file on that server.

5 38. On information and belief, Defendant's website used a web application framework to 6 develop and compile various webpages of the Defendant, including asset files that were used in 7 rendering the webpages, and to generate fingerprints of the contents of asset files. On information and 8 belief, the fingerprints of individual asset files that were part of the webpage's content were included 9 in the respective filenames of the individual asset files. On information and belief, the modified 10 filenames were then used as part of the URI used to access the individual asset files over the Internet. 11 On information and belief, when an asset file's content was changed, a new fingerprint was generated 12 and included in the filename, its URI thus being changed accordingly.

13 39. On information and belief, the asset file fingerprint was generated with a hash function 14 and used to identify content changes. Furthermore, on information and belief, asset file URIs (with 15 respective fingerprints) were included in webpage base files or other asset files contained references 16 to other asset files. On information and belief, static webpage base files, if any, were recompiled when 17 any URI of a referenced asset file was changed (due to the fingerprint of the referenced asset file 18 changing). Thus, a content change in an asset file for a given webpage would result in a change to its 19 fingerprint, its URI, and a subsequent change to the content of any static webpage base files 20 referencing that changed asset file for that webpage.

40. On information and belief, a dynamic webpage base file generated for a webpage of
Defendant webpages in response to one request from a user could be the same as it was when it was
generated in response to a prior request from that or another user. However, on information and belief,
this would not be the case if any of the asset files referenced in the webpage base file had changed
between the time of the two requests and the URIs of the changed asset files included fingerprints as
described above.

27 41. On information and belief, when an asset file's content was changed, a new fingerprint
28 was generated and included in the filename, and its URI was thus changed accordingly, resulting in a

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content change to any webpage base file or other asset file that referenced that URI. This, in turn, 1 2 caused a new and different ETag being generated for such webpage base file or other asset file that 3 referenced that URI.

42. 4 On information and belief, when Defendant created a webpage base file for a webpage, 5 whether dynamic or static, that webpage base file included a sequence of bits and an associated ETag 6 value was generated by Defendant by applying a hash function to the sequence of bits; wherein any 7 two webpage base files comprising identical sequences of bits had identical associated ETag values. 8 Thus, on information and belief, when a webpage base file's content was changed and a new associated 9 ETag value was generated by Defendant, it thereafter instructed the respective service by intermediate 10 cache servers or use by endpoint caches such as browser caches to no longer use the previous cached 11 webpage base file's content. Conversely, when the webpage base file content had not changed and 12 thus its ETag was unchanged, the cached asset files with fingerprints in their URIs referenced in the 13 webpage base file had not changed and were still valid to use.

14 43. On information and belief, when an intermediate cache server or a browser requested 15 a webpage from the Defendant for the first time, it sent an HTTP GET request with the webpage's 16 URI and Defendant's origin server or an upstream cache server responded by sending an HTTP 200 17 (OK) response message containing the webpage base file, along with its respective associated ETag. 18 On information and belief, a browser then sent individual HTTP GET requests, each with an asset 19 file's URI that was referenced in the webpage base file, and the asset files' origin servers or 20 intermediate cache servers responded by sending individual HTTP 200 responses containing the 21 requested asset files. On information and belief, upon receipt of the HTTP 200 responses, the 22 intermediate cache server or browser cached the webpage base file and asset files with their associated 23 URI and the browser used them in rendering the requested web page of the Defendant. On information 24 and belief, the origin servers, intermediate cache servers, and browser caches were caused to maintain 25 databases/tables which mapped the URIs of webpage base files and asset files to their respective 26 responses and, if applicable, associated cache-control headers and ETags.

27 44. On information and belief, by responding to an HTTP GET request for a given webpage 28 by transmitting content of a webpage base file with an associated ETag, Defendant instructed the

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browser cache and all intermediate cache servers, to use an HTTP conditional GET request the next
 time that webpage base file is requested. More specifically, on information and belief, the browser or
 intermediate cache is instructed to include the ETag in the HTTP conditional GET request with an "If None-Match" header to re-verify that they are still authorized to serve or use that content or determine
 that they are no longer authorized to use that content and therefore must use new content.

6 45. On information and belief, Defendant did this, for example, by causing cache-control
7 headers to be included in HTTP responses containing its webpage base file. On information and belief,
8 Defendant benefits from using the ETags to control the distribution of its webpage content by
9 communicating to a downstream cache and to a browser which of Defendant's cached webpage base
10 files it is reauthorized to serve/use and what newly authorized files it must first obtain in
11 serving/rendering Defendant's webpages.

46. More particularly, on information and belief, when a browser again requested the
Defendant's webpage, the browser either used a cached copy, if allowed by the cache-control headers,
or retrieved a new copy of the webpage base file for Defendant's webpage.

15 47. On information and belief, for a webpage base file stored in the browser's cache with 16 an ETag, and based on the cache-control headers received in the original response, the browser sent a 17 conditional GET request with an If-None-Match header using the associated ETag value and the URI 18 for the webpage base file so as to be notified whether the browser still had Defendant's authority to 19 render the webpage with its locally cached webpage base file. In other words, whether the cached 20 content was still valid for use in rendering Defendant's webpage.

21 48. On information and belief, under most circumstances, a responding intermediate cache 22 server having content cached for the URI in the conditional GET request and having an ETag for that 23 URI responded to the request by determining whether it had the same associated ETag value for that 24 URI. If it had no ETag value for that URI, on information and belief, the request was passed up to an 25 upstream intermediate cache server capable of responding or, if none, to the URI's origin server, which 26 responded to the request. On information and belief, if the intermediate cache server did not have 27 content cached for the URI in the conditional GET request, the request was similarly passed up to an upstream intermediate cache server capable of responding or, if none, to the URI's origin server. 28

49. On information and belief, if the responding server had the webpage content for that
 URI and there was a match between the ETag it received in the request with the ETag it currently had
 associated for that URI, it sent back an HTTP 304 (Not Modified) response message; this message
 notifying the browser that the same webpage content was present at the responding server and that the
 browser was still authorized to use that previously cached webpage base file to render the webpage.
 On information and belief, upon receipt of the HTTP 304 response, the browser accessed the locally
 cached webpage base file in rendering the webpage.

8 50. On information and belief, if the webpage base file's associated ETag sent by the 9 browser in the conditional GET If-None-Match request did not match the associated ETag maintained 10 at the responding server (or other intermediate cache servers further upstream or the origin server) for 11 that URI, the responding server sent back an HTTP 200 response along with the new webpage base 12 file and its new ETag value. The HTTP 200 response indicated to the browser that it was not 13 authorized to use (or serve, in the case of an intermediate cache server receiving the HTTP 200 14 response) the previously cached webpage base file. In response to receiving the HTTP 200 response, 15 the browser (or intermediate cache server) was instructed to update its respective cache with the new 16 webpage base file and associated ETag. The browser subsequently used the new webpage base file 17 (and the asset file URIs contained therein) to render the webpage.

18 51. Exhibit 1 to the complaint lists specific examples of files that were, on information and
19 belief, served by or on behalf of Defendant during the relevant time period. The examples in Exhibit
20 1 include: a webpage base file served with a content-based ETag for the webpage base file; and an
21 asset file referenced by a URI with a fingerprint of the asset file contained into the URI.

52. On information and belief, in this manner, Defendant used (1) ETag values and (2)
asset files referenced by URIs with fingerprints based on the asset files' content to control the behavior
of downstream intermediate cache servers and browser caches to assure that they only accessed and
used Defendant's latest authorized webpage content to serve or to render its webpages.

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FIRST CLAIM FOR RELIEF

INFRINGEMENT OF U.S. PATENT NO. 6,928,442

3 53. PersonalWeb repeats and realleges paragraphs 1–52, as if the same were fully stated
4 herein.

5 54. On August 9, 2005, United States Patent No. 6,928,442 (the "'442 patent") was duly
6 and legally issued for an invention entitled "Enforcement and Policing of Licensed Content Using
7 Content-Based Identifiers." PersonalWeb has an ownership interest in the '442 patent by assignment,
8 including the exclusive right to enforce the '442 patent within the PersonalWeb Patent Field, and
9 continues to hold that ownership interest in the '442 patent.

10 55. Defendant has infringed at least claims 10 and 11 of the '442 patent by its manufacture,
11 use, sale, importation, and/or offer for sale of products or services, and/or controlling the distribution
12 of its webpage content in the manner described herein. Defendant's infringement is literal and/or
13 under the doctrine of equivalents and Defendant is liable for its infringement of the '442 patent
14 pursuant to 35 U.S.C. § 271.

15 56. For example, claim 10 covers "a method, in a system in which a plurality of files are
distributed across a plurality of computers." On information and belief, Defendant has used a system
of notifications and authorizations to distribute a plurality of files, *e.g.*, Defendant's files containing
content necessary to render its webpages, across a plurality of computers such as production servers,
origin servers, intermediate cache servers and endpoint caches used by browsers rendering
20 Defendant's webpages.

57. Claim 10 then recites the act of "obtaining a name for a data file, the name being based
at least in part on a given function of the data, wherein the data used by the function comprises the
contents of the particular file." As set forth above, on information and belief, Defendant generated or
otherwise obtained ETags for its webpage base file used to render its webpages using a hash function,
wherein the ETags were based on the contents of the particular files. Moreover, Defendant caused the
intermediate caches servers and endpoint caches to obtain the ETags in HTTP 200 responses sent from
Defendant's origin servers. On information and belief, Defendant caused intermediate cache servers

and its origin servers to obtain ETags in conditional GET messages from endpoint and intermediate
 caches, as described *supra*.

58. Claim 10 then recites the act of "determining, using at least the name, whether a copy
of the data file is present on at least one of said computers." On information and belief, as set forth
above, Defendant has caused its origin severs and the intermediate cache servers between an endpoint
cache and one of its origin servers to, in response to receiving a conditional GET request with an IfNone-Match header, determine whether it has a file present that matches the URI in the conditional
GET and to compare the ETag in the conditional GET to the ETag for that URI and determine whether
a copy of the content having that ETag is present.

Claim 10 then recites the act of "determining whether a copy of the data file that is 10 59. 11 present on a at least one of said computers is an unauthorized copy or an unlicensed copy of the data 12 file." On information and belief, as set forth above, if there was a match, the origin or intermediate 13 cache server determined that the copy of the file present at the downstream intermediate cache server 14 and/or the endpoint cache was an authorized or licensed copy of the data file. Conversely, if there was 15 no match, it determined that the copy of the file present at the downstream intermediate cache server 16 and/or the endpoint cache was an unauthorized copy of the data file. Likewise, if the browser 17 determined that it had a file with a matching URI, the browser determined that it was still authorized 18 to use that file.

19 60. Defendant's acts of infringement caused damage to PersonalWeb and PersonalWeb is
20 entitled to recover from Defendant the damages sustained by PersonalWeb as a result of Defendant's
21 wrongful acts in an amount subject to proof at trial.

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SECOND CLAIM FOR RELIEF

INFRINGEMENT OF U.S. PATENT NO. 7,802,310

25 61. PersonalWeb repeats and realleges paragraphs 1–52, as if the same were fully stated
26 herein.

27 62. On September 21, 2010, United States Patent No. 7,802,310 (the "310 patent") was
28 duly and legally issued for an invention entitled "Controlling Access to Data in a Data Processing

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System." PersonalWeb has an ownership interest in the '310 patent by assignment, including the
 exclusive right to enforce the '310 patent within the PersonalWeb Patent Field, and continues to hold
 that ownership interest in the '310 patent.

4 63. Defendant has infringed at least claims 20 and 69 of the '310 patent by its manufacture,
5 use, sale, importation, and/or offer for sale of products or services, and/or controlling the distribution
6 of its webpage content in the manner described herein. Defendant's infringement is literal and/or
7 under the doctrine of equivalents and Defendant is liable for its infringement of the '310 patent
8 pursuant to 35 U.S.C. § 271.

9 64. For example, claim 20 covers a "computer-implemented method operable in a system
10 which includes a plurality of computers." On information and belief, Defendant used the claimed
11 computer implemented method by using a system of notifications and authorizations to control the
12 distribution of data items, such as various webpage base file, necessary to render its webpages, across
13 a plurality of computers such as production servers, origin servers, intermediate cache servers, and
14 endpoint caches.

15 65. Claim 20 then recites "controlling distribution of content from a first computer to at 16 least one other computer, in response to a request obtained by a first device in the system from a second 17 device in the system, the first device comprising hardware including at least one processor, the request 18 including at least a content-dependent name of a particular data item, the content-dependent name 19 being based at least in part on a function of at least some of the data comprising the particular data 20 item, wherein the function comprises a message digest function or a hash function, and wherein two 21 identical data items will have the same content-dependent name." On information and belief, as set 22 forth above, Defendant has caused downstream intermediate cache servers and endpoint caches to 23 send conditional GET requests with If-None-Match headers containing ETags that are fielded by 24 upstream cache or origin servers. On information and belief, the ETags were content-dependent names 25 for a data item based on hashing the data item's contents; and when the file's content changed a new 26 content-dependent name was determined. On information and belief, in Defendant's method, a first 27 computer, such as the intermediate cache server or origin server, received such conditional GET 28 requests from a second computer, such as a user browser or other intermediate cache server, regarding

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data items, such as webpage or asset files, the requests including ETags associated with the respective
 data items.

3 66. Claim 20 then recites "based at least in part on said content-dependent name of said 4 particular data item, the first device (A) permitting the content to be provided to or accessed by the at 5 least one other computer if it is not determined that the content is unauthorized or unlicensed, 6 otherwise, (B) if it is determined that the content is unauthorized or unlicensed, not permitting the 7 content to be provided to or accessed by the at least one other computer." On information and belief, 8 the first computer, such as an upstream intermediate cache server or origin server, maintained a 9 plurality of ETags associated with Defendant's asset and webpage base files On information and 10 belief, the ETag in a request and the ETag maintained by the first computer for the particular data item 11 sought by the request were compared to determine whether the associated content present at the 12 downstream computer was still authorized to be used/served or whether new authorized content must 13 be provided thereto. If it was determined that the data item corresponding to the received ETag was 14 still authorized to be used, the first computer sent back an HTTP 304 response authorizing the 15 downstream cache server or end-user cache to access the file content already present in order to serve 16 it or to use it to render the webpage. On information and belief, if it had been determined that the data 17 item corresponding to received E-tag was no longer authorized, the first computer sent back an HTTP 18 200 response which indicated to the downstream cache server or end-user cache that was not 19 authorized to access the old content and must access the new authorized file content contained in the 20 HTTP 200 response to serve it or to use it to render the webpage.

21 67. For a further example, claim 69 covers a "system operable in a network of computers, 22 the system comprising hardware including at least a processor, and software, in combination with said 23 hardware." On information and belief, Defendant has controlled the distribution of its website content 24 across a system that included a network of computers, such as its production servers as well as origin 25 servers, intermediate cache servers, and endpoint caches, all comprising hardware including a 26 processor. On information and belief, Defendant has utilized software, in combination with such 27 hardware, such as a web development framework, software utilized in implementing the HTTP web 28 protocol, and software used on host servers that Defendant used to serve its content.

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68. Claim 69 then recites the system "(a) to receive at a first computer, from a second 1 2 computer, a request regarding a data item, said request including at least a content-dependent name 3 for the data item, the content-dependent name being based at least in part on a function of the data in 4 the data item, wherein the data used by the function to determine the content-dependent name 5 comprises at least some of the contents of the data item, wherein the function that was used is a 6 message digest function or a hash function, and wherein two identical data items will have the same 7 content-dependent name." On information and belief, as set forth above, Defendant has caused 8 downstream intermediate cache servers and endpoint caches to send conditional GET requests with 9 URIs including fingerprints that are fielded by upstream cache or origin servers. On information and 10 belief, the URIs including fingerprints were content-dependent names for a data item calculated by 11 hashing the file's contents; and when the file's content changed a new content-dependent name was 12 determined. On information and belief, in Defendant's system, a first computer, such as the 13 intermediate cache server or origin server, received such conditional GET requests from a second 14 computer, such as a user browser, regarding data items, such as asset files, using content-dependent 15 names such as URIs including fingerprints associated with the data items.

16 69. Claim 69 then recites "(b) in response to said request: (i) to cause the content-dependent 17 name of the data item to be compared to a plurality of values; and (ii) to determine if access to the data 18 item is authorized or unauthorized based on whether or not the content-dependent name corresponds 19 to at least one of said plurality of values, and (iii) based on whether or not it is determined that access 20 to the data item is authorized or unauthorized, to allow the data item to be provided to or accessed by 21 the second computer if it is not determined that access to the data item is unauthorized." On 22 information and belief, the first computer, such as an upstream intermediate cache server or origin 23 server, maintained a plurality of URI values associated with Defendant's asset and webpage base files; 24 compared the URI value received in a conditional GET request from the second (downstream) 25 computer to that plurality of URI values; that comparison allowed the first computer to determine 26 whether the content-dependent name in the request corresponded to one of the plurality of stored URI 27 values and to determine whether access to the data item was still authorized or not. On information 28 and belief, in particular when there was a match, the first computer determined the associated content

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present at the downstream computer was still authorized to be used/served or whether new authorized
 content must be provided thereto. If it was determined that the data item corresponding to the received
 URI including a fingerprint was still authorized to be used, the first computer has sent back an HTTP
 304 response authorizing the downstream cache server or end-user cache to access the file content
 already present in order to serve it or to use it to render the webpage.

6 70. Defendant's acts of infringement have caused damage to PersonalWeb and
7 PersonalWeb is entitled to recover from Defendant the damages sustained by PersonalWeb as a result
8 of Defendant's wrongful acts in an amount subject to proof at trial.

THIRD CLAIM FOR RELIEF

INFRINGEMENT OF U.S. PATENT NO. 7,945,544

12 71. PersonalWeb repeats and realleges paragraphs 1–52, as if the same were fully stated13 herein.

14 72. On May 17, 2011, United States Patent No. 7,945,544 (the "544 patent") was duly and
15 legally issued for an invention entitled "Similarity-Based Access Control of Data in a Data Processing
16 System." PersonalWeb has an ownership interest in the '544 patent by assignment, including the
17 exclusive right to enforce the '544 patent within the PersonalWeb Patent Field, and continues to hold
18 that ownership interest in the '544 patent.

19 73. Defendant has infringed at least claims 46, 48, 52, and 55 of the '544 patent by its
20 manufacture, use, sale, importation, and/or offer for sale of products or services, and/or controlling the
21 distribution of its webpage content in the manner described herein. Defendant's infringement is literal
22 and/or under the doctrine of equivalents and Defendant is liable for its infringement of the '544 patent
23 pursuant to 35 U.S.C. § 271.

74. For example, claim 46 covers a claimed "computer-implemented method." On
information and belief, Defendant uses the claimed computer implemented method by using a system
of notifications and authorizations to locate and control the distribution of data items, such as various
webpage base files and asset files, necessary to render its webpages.

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75. Claim 46 then recites the act of "(A) for each particular file of a plurality of files: 1 2 (a2) determining a particular digital key for the particular file, wherein the particular file comprises a 3 first one or more parts." On information and belief, each of Defendant's webpages comprises one or 4 more asset files and has an associated webpage base file, the webpage base file containing the URIs 5 having fingerprints of a plurality of asset files comprising the webpage, and once the webpage base 6 files and asset files are compiled and complete, Defendant stores them on a host system. On 7 information and belief, the webpage base file's associated ETag value is generated by applying a hash 8 algorithm to the webpage base file's contents. On information and belief, whenever a new webpage 9 base file is generated or the webpage base file's content changes, Defendant caused an ETag to be 10 determined and associated to the webpage base file.

11 76. Claim 46 then recites "each part of said first one or more parts having a corresponding part value, the part value of each specific part of said first one or more parts being based on a first 12 13 function of the contents of the specific part, wherein two identical parts will have the same part value 14 as determined by the first function, and wherein the particular digital key for the particular file is 15 determined using a second function of the one or more of part values of said first one or more parts." 16 On information and belief, prior to various asset files being stored on a host system, a fingerprint is 17 generated for each of these asset files by applying a hash function to the asset file's contents and the 18 fingerprints are inserted into the URIs for the respective asset files. On information and belief, the 19 webpage's ETag value is generated by applying a second hash function to the webpage base file's 20 contents, which include the URIs of one or more of the asset files which comprise the webpage's 21 contents. On information and belief, because the respective asset files' URIs include the fingerprints 22 of their content, the webpage's ETag value will change and a new associated ETag value is generated 23 to represent the webpage's content, when the content changes and two identical webpages having the 24 identical content represented by their webpage base file will have the same ETag value.

25 77. Claim 46 then recites the act of "(a2) adding the particular digital key of the particular
26 file to a database, the database including a mapping from digital keys of files to information about the
27 corresponding files." On information and belief, Defendant caused the origin server, intermediate
28 caches and endpoint caches to maintain databases/tables which mapped the ETag of each webpage's

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webpage base file to its URI, and information about the corresponding webpage, such as, for example,
 information from cache-control headers for the webpage.

- 3 78. Claim 46 then recites "(B) determining a search key based on search criteria, wherein the search criteria comprise a second one or more parts, each of said second one or more parts of said 4 5 search criteria having a corresponding part value, the part value of each specific part of said second 6 one or more parts being based on the first function of the contents of the specific part, and wherein the 7 search key is determined using the second function of the one or more of part values of said second 8 one or more parts." On information and belief, when a downstream intermediate cache server or a 9 browser again requested a webpage of Defendant, Defendant caused it to send a conditional GET 10 request with an If-None-Match header with the webpage's associated ETag value. On information 11 and belief, the received ETag value was determined using the second hash function of the webpage's 12 webpage base file, which included URIs including fingerprints for one or more of the asset files which 13 comprised the webpage's contents.
- 14 79. Claim 46 then recites "(C) attempting to match the search key with a digital key in the
 15 database." On information and belief, when the responding server received the webpage's ETag value
 16 in a conditional GET request with an If-None-Match header, it compared the received ETag with the
 17 ETag it has maintained in a database/table corresponding to the URI of the webpage's webpage base
 18 file to determine if there is matching value for that webpage.
- 19 80. Claim 46 then recites "(D) if the search key matches a particular digital key in the
 20 database, providing information about the file corresponding to the particular digital key." On
 21 information and belief, if the responding server had a matching ETag value for the webpage's webpage
 22 base file, the responding server sent an HTTP 304 response, which included information about the
 23 corresponding webpage, such as, for example, information from cache-control headers for the
 24 webpage.
- 25 81. Defendant's acts of infringement have caused damage to PersonalWeb and
 26 PersonalWeb is entitled to recover from Defendant the damages sustained by PersonalWeb as a result
 27 of Defendant's wrongful acts in an amount subject to proof at trial.
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FOURTH CLAIM FOR RELIEF

INFRINGEMENT OF U.S. PATENT NO. 8,099,420

3 82. PersonalWeb repeats and realleges paragraphs 1–52, as if the same were fully stated
4 herein.

S 83. On January 17, 2012, United States Patent No. 8,099,420 (the "420 patent") was duly
and legally issued for an invention entitled "Accessing Data in a Data Processing System."
PersonalWeb has an ownership interest in the '420 patent by assignment, including the exclusive right
to enforce the '420 patent within the PersonalWeb Patent Field, and continues to hold that ownership
interest in the '420 patent.

10 84. Defendant has infringed claims 25, 26, 27, 29, 30, 32, 34–36, and 166 of the '420 patent
11 by its manufacture, use, sale, importation, and/or offer for sale of products or services, and/or
12 controlling the distribution of its webpage content in the manner recited herein. Defendant's
13 infringement is literal and/or under the doctrine of equivalents and Defendant is liable for its
14 infringement of the '420 patent pursuant to 35 U.S.C. § 271.

15 85. For example, claim 166 covers a "system comprising hardware, including at least a
16 processor, and software, in combination with said hardware." On information and belief, Defendant
17 has controlled the distribution of its website content across a system that included hardware including
18 a processor, such as its production servers as well as origin servers, intermediate cache servers, and
19 endpoint caches; and software, in combination with such hardware, such as a web development
20 framework, software utilized in implementing the HTTP web protocol, and the software used on host
21 servers that Defendant used to serve its webpages.

86. Claim 166 then recites "(A) for a particular data item in a set of data items, said
particular data item comprising a corresponding particular sequence of bits." On information and
belief, Defendant's system has controlled the distribution of webpage base files necessary to render
its webpages which represent particular data items, and each of these files comprise a corresponding
sequence of bits.

87. Claim 166 then recites that for the particular data item to "(a1) determine one or more
content-dependent digital identifiers for said particular data item, each said content-dependent digital

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identifier being based at least in part on a given function of at least some of the bits in the particular
sequence of bits of the particular data item, wherein two identical data items will have the same digital
identifiers as determined using said given function." On information and belief, Defendant's system
has applied hash functions to each of various Defendant's webpage base files to all of the bits of the
file's content to determine a fingerprint, an ETag, or both for the file's content; whereby two identical
data items have the same ETag values and the same fingerprint values. On information and belief,
fingerprints were included in files' URI and ETag values were associated with files' URIs.

Claim 166 then recites that for the particular data item "(a2) selectively permits the 8 88. 9 particular data item to be made available for access and to be provided to or accessed by or from at 10 least some of the computers in a network of computers, wherein the data item is not to be made 11 available for access or provided without authorization, as resolved based, at least in part, on whether or not at least one of said one or more content-dependent digital identifiers for said particular data item 12 13 corresponds to an entry in one or more databases, each of said one or more databases comprising a 14 plurality of identifiers, each of said identifiers in each said database corresponding to at least one data 15 item of a plurality of data items, and each of said identifiers in each said database being based, at least 16 in part, on at least some of the data in a corresponding data item."

89. 17 On information and belief, Defendant's system has included one or more web servers 18 with databases containing ETag values associated with the URIs for various of the webpage base files 19 necessary to render its webpages; moreover, Defendant's system has used a system of conditional 20 GET requests with If-None-Match headers and HTTP 304 and HTTP 200 responses containing the 21 ETags, as described more particularly *supra*, to ensure that downstream caches only access authorized 22 file content to either serve that file content further downstream or to use it to render Defendant's 23 webpages. On information and belief, in particular, as more fully described supra, the system 24 compared the ETag received in a given conditional GET request with the ETags contained in the 25 database to selectively determine whether the requesting computer could access the file content it 26 already had or must access newly received authorized content.

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| 1 | 90. Defendant's acts of infringement have caused damage to PersonalWeb and | | | |
|----|--|--|--|--|
| 2 | PersonalWeb is entitled to recover from Defendant the damages sustained by PersonalWeb as a result | | | |
| 3 | of Defendant's wrongful acts in an amount subject to proof at trial. | | | |
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| 5 | PRAYER FOR RELIEF | | | |
| 6 | WHEREFORE, Plaintiff PersonalWeb requests entry of judgment in its favor and against | | | |
| 7 | Defendant as follows: | | | |
| 8 | a) Declaration that Defendant has infringed U.S. Patent Nos. 6,928,442, 7,802,310, | | | |
| 9 | 7,945,544, and 8,099,420 as described in this action; | | | |
| 10 | b) Awarding the damages arising out of Defendant's infringement of U.S. Patent Nos. | | | |
| 11 | 6,928,442, 7,802,310, 7,945,544, and 8,099,420, together with pre-judgment and post-judgment | | | |
| 12 | interest, in an amount according to proof; | | | |
| 13 | c) An award of attorneys' fees pursuant to 35 U.S.C. § 285 or as otherwise permitted by | | | |
| 14 | law; and | | | |
| 15 | d) For costs incurred and such other and further relief as the Court may deem just and | | | |
| 16 | proper. | | | |
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| 18 | Respectfully submitted, | | | |
| 19 | Dated:October 4, 2018STUBBS, ALDERTON & MARKILES, LLP | | | |
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| 21 | By: <u>/s/ Wesley W. Monroe</u> Wesley W. Monroe | | | |
| 22 | Michael A. Sherman Jeffrey F. Gersh | | | |
| 23 | Sandeep Seth Stanley H. Thompson, Jr. | | | |
| 24 | Viviana Boero Hedrick Attorneys for Plaintiffs | | | |
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| 1 | Dated: | October 4, 2018 | MAC | EIKO IP | |
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| 3 | | | By: <u>/.</u> | <u>s/ Theodore S. Ma</u> | <i>ceiko</i> ceiko (SBN 150211) |
| 4 | | | | ted@maceikoip. MACEIKO IP | |
| 5 | | | | 420 2nd Street | h, California 90266 |
| 6 | | | | Telephone: (3) Facsimile: (3) | 310) 545-3311 |
| 7 | | | | Attorneys for Pla | aintiff EB TECHNOLOGIES, LLC, |
| 8 | | | | | |
| 9 | Dated: | October 4, 2018 | DAV | ID D. WIER | |
| 10 | | | | | |
| 11 | | | By: <u>/.</u> | s <u>/ David D. Wier</u> David D. Wier | |
| 12 | | | | | nd Assistant General Counsel |
| 13 | | | | Level 3 Commu 1025 Eldorado E | Boulevard |
| 14 15 | | | | Broomfield, CO Telephone: (720 |) 888-3539 |
| 15 | | | | LEVEL 3 COM | aintiff MUNICATIONS, LLC |
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| 1 | | D | EMAND FOR JURY TRIAL | | | |
| 2 | | Pursuant to Fed. R. Civ. P. 38(b) and Local Rule 3–6, Plaintiff PersonalWeb Technologies, | | | | |
| 3 | LLC hereby demands a trial by jury on all issues triable in this action. | | | | | |
| 4 | | Respectfully submitted, | | | | |
| 5 | Dated: | October 4, 2018 | STUBBS, ALDERTON & MARKILES, LLP | | | |
| 6 | | | | | | |
| 7 | | | By: <u>/s/ Wesley W. Monroe</u> | | | |
| 8 | | | Wesley W. Monroe Michael A. Sherman | | | |
| 9 | | | Jeffrey F. Gersh Sandeep Seth | | | |
| 10 | | | Stanley H. Thompson, Jr. Viviana Boero Hedrick | | | |
| 11 | Detal | October 4, 2018 | Attorneys for Plaintiffs MACEIKO IP | | | |
| 12 | Dated: | October 4, 2018 | MACEINO II | | | |
| 13 | | | By: /s/ Theodore S. Maceiko | | | |
| 14 | | | Theodore S. Maceiko (SBN 150211) ted@maceikoip.com | | | |
| 15 | | | MACEIKO IP 420 2nd Street | | | |
| 16 | | | Manhattan Beach, California 90266 Telephone: (310) 545-3311 | | | |
| 17 | | | Facsimile: (310) 545-3344 Attorneys for Plaintiff | | | |
| 18 | | | PERSONALWEB TECHNOLOGIES, LLC, | | | |
| 19 | Dated: | October 4, 2018 | DAVID D. WIER | | | |
| 20 | | | | | | |
| 21 | | | By: <u>/s/ David D. Wier</u> | | | |
| 22 | | | David D. Wier david.wier@level3.com | | | |
| 23 | | | Vice President and Assistant General Counsel Level 3 Communications, LLC | | | |
| 24 25 | | | 1025 Eldorado Boulevard Broomfield, CO 80021 | | | |
| 25 26 | | | Telephone: (720) 888-3539 Attorneys for Plaintiff | | | |
| 26 27 | | | LEVEL 3 COMMUNICATIONS, LLC | | | |
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