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7			
8	UNITED STATES	DISTRICT COURT	
9	NORTHERN DISTR	ICT OF CALIFORNIA	
10	SAN JOSI	E DIVISION	
11			
12	IN RE GOOGLE INC. GMAIL	Case No. 5:13-md-002430 LHK (PSG)	
13	LITIGATION	DECLARATION OF HAN LEE IN SUPPORT OF DEFENDANT	
14		GOOGLE INC.'S ADMINISTRATIVE MOTION TO FILE DOCUMENTS	
15		AND PORTIONS OF DOCUMENTS UNDER SEAL	
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17		Judge: Hon. Lucy H. Koh Dept: Courtroom 8 – 4 th Floor	
18			
19	I, Han Lee, declare:		
20	1. I am a Software Engineer at	Google Inc. ("Google") and am familiar with	
21	Google's internal systems related to Gmail, as	well as the general business decision-making and	
22	strategy related to those systems. I submit this	declaration in support of Google's Administrative	
23	Motion to File Documents and Portions of Docu	uments Under Seal (the "Motion to Seal"). I have	
24	personal knowledge of the facts set forth in thi	s Declaration, and if called to testify, I could and	
25	would testify competently thereto.		
26	2. The Motion to Seal seeks to s	eal Exhibits E, G, L, O, P, W, and AA to the	
27	Declaration of Proposed Class Counsel Sean F	F. Rommel in Support of Plaintiffs' Consolidated	
28	Motion for Class Certification (each a "Rommel Exhibit") in their entirety. The Motion to Sea		

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also seeks to seal certain information within Plaintiffs' Consolidated Motion for Class Certification ("Plaintiffs' Motion"), and Rommel Exhibits A, C, D, I, J, M, Q, S, T, U, and V. This is information that Google designated "CONFIDENTIAL" or "CONFIDENTIAL – ATTORNEYS' EYES ONLY" under the terms of the stipulated protective order, entered on June 17, 2013 in this matter ("Protective Order," ECF No. 48), or is derived from that protected information. These materials contain Google's proprietary and highly confidential information, which derives much of its value from its confidentiality.

- 3. The documents Plaintiffs incorporate into their motion for class certification reference information that is non-public and would cause competitive harm to Google, or could cause harm to Gmail users, if not sealed (the "Sealable Information"). Below, I provide the Court with (i) an explanation of the Sealable Information generally; (ii) specific explanations as to why each document Google seeks to seal in its entirety would harm Google or its users if disclosed; and (iii) a table identifying each redaction Google seeks to make along with Google's reason for the redaction.
- 4. Plaintiffs also re-filed under seal several documents that have already been sealed in whole or in part by this Court in *Dunbar v. Google Inc.*, No. 12-cv-03305-LHK (*Dunbar* ECF No. 292, filed Aug. 18, 2013). This Court sealed Rommel Exhibits H and K in their entirety, finding that both documents "cover[] essentially nothing but Google's proprietary information." (*Dunbar* ECF No. 292). Similarly, Rommel Exhibit N has already been sealed by the *Dunbar* Court with Google's proposed limited redactions. (*Dunbar* ECF No. 292.) As a result, while Google asks that the Court seal these additional copies, I do not repeat Google's justifications for sealing these documents below.

GENERAL EXPLANATION

5. Google discloses to Gmail users that it filters and scans the text of Gmail messages, and it also discloses what it uses that information for, including, for example, to filter spam, to detect viruses, to help users organize their inboxes by importance, and to deliver personalized advertising. Users consent to that scanning and the use of information under Google's terms of service and privacy policy. Thus, the fact that Google scans emails and uses

scanned information is not confidential, and Google does not seek to seal those facts.

- 6. However, the mechanics of how Google performs those processes are sensitive, both for user security reasons and for competitive reasons. The specific techniques that Google uses to implement Gmail's processes, the systems and infrastructure it uses to apply those processes, and the sequence in which it applies those processes are the result of over nine years of development by Google's engineers. We designed the Gmail system to be secure so that we can provide secure email services to our users. We also designed the Gmail system so that we can maximize the speed of Gmail while at the same time providing a large number of unique features to users that our competitors do not offer. And, we designed the Gmail system so that we can scale, and so that the system is efficient in terms of data storage and retention.
- 7. Security is a crucial Gmail feature. Email accounts are frequently targeted by unwanted messages, known as "spam." The spam emails include not only unwanted advertising, but also outright scams that attempt to lure recipients to participate in fraudulent schemes. In addition, even messages that are well-intentioned and sent by persons known to the recipient may be harmful if they contain attachments which have been infected by computer viruses, worms, or Trojan horses. Google has designed the Gmail system to prevent harmful materials from reaching Gmail users' inboxes, to categorize spam as such and segregate it from emails that users are more likely to desire, and to flag materials containing viruses or other such harmful content. Google's ability to combat spammers, hackers, and others who propagate these unwanted or harmful materials would be impaired if those individuals had visibility into Google's defenses. For example, Google does not publicly disclose when its scanning for spam and viruses occurs in the sequence of email processing, whether its scanning to detect spam and viruses happens once or multiple times, or whether these scanning processes occur together or separately. The confidentiality of this information is important to ensure that Google is able to prevent harm to its users. For example, a hacker who believes that his Trojan horse will be captured by a spam filter might act differently than a hacker who believes that his Trojan horse will be assessed independently of spam filtering.
 - 8. Gmail's speed is also a valuable feature for users, and that speed is a major

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competitive advantage for Google—particularly in light of the numerous email-related features that Google offers, such as spam filtering, virus detection, personalized advertising, automatic organization of incoming emails by importance, spellchecking, search within email, automatic saving and sorting into folders, and converting text URLs to clickable links. Google has spent years developing a system that can provide all of these features while still delivering email almost instantly to users. Gmail's speed is in large part a result of the sequencing and organization of the Gmail system for processing incoming email. Changes to the sequencing and organization of the Gmail system directly impact the speed at which Gmail operates. I do not know how our competitors structure their webmail infrastructures. But, I do know that it has taken the Gmail team years of experimentation, iteration, and engineering time to develop our email infrastructure to optimize speed without sacrificing product features, and I do not believe that our competitors could achieve the same results without significant investment.

- 9. Another objective achieved by Google's proprietary system design is to permit scaling. As the number of Gmail features and Gmail users has grown, Google has had to develop ways to more efficiently manage the many email features it offers. In some cases, this has resulted in pieces of infrastructure specifically dedicated to a specific task, or to systems being connected to one another in a specific way, in a manner that a competitor would not realize was superior without substantial experimentation at significant cost. Google's ability to scale its system is in large part a result of the sequencing and organization of Google's systems for processing incoming email.
- 10. The Gmail system is also designed for efficient data storage. Gmail has many millions of users, most of whom receive numerous email messages. One of Gmail's benefits to users, and competitive advantages in the marketplace, is its ability to provide users with a large amount of storage. Google's ability to provide users with such substantial storage space is a result of both the organization of Google's systems and of confidential Google processes related to when and how certain information related to emails is retained.
- 1. As noted, Google has developed its systems at substantial cost and through substantial effort spanning multiple years. And indeed, Google continues to work on developing

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methods to improve its features, including superior spam and virus detection. Exposure of the details of Google's systems would reduce Google's ability to defend Gmail users against unwanted messages and harmful message content. Moreover, if Google's competitors were able to access the details of Google's systems, they could simply copy Google's methods, depriving Google of a competitive advantage it earned through years of costly innovation, and giving Google's competitors the unfair advantage of implementing similar systems without the cost and effort of developing them independently. In addition, Google's competitors could potentially pair Google's proprietary methods with their own innovations—which are unknown to Google—giving them a product superior to what natural competition would have developed and putting Google at a competitive disadvantage.

INDIVIDUAL DOCUMENT EXPLANATIONS

11. Google seeks to seal in their entirety seven exhibits, which were put forward by Plaintiffs as Rommel Exhibits E, G, L, O, P, W, and AA, filed on October 25, 2013. Each of these documents consists entirely or almost entirely of sensitive nonpublic information whose revelation would be harmful to Google or to another person, as explained below. Because of the substantive information in these documents is entirely confidential, filing a public redacted version of any of these documents would not provide any substantial or comprehensible information to the public. Rommel Exhibits H and K, also lodged under seal on October 25, 2013, are not discussed below because they have already been sealed in their entirety by this Court in the *Dunbar* matter. (*Dunbar* ECF No. 292).

Rommel Exhibit E

12. Rommel Exhibit E is a compilation of Google documents from centralized file sources designed specifically to give Google's own engineers detailed information about how Google's systems function. Exhibit E contains charts, links, and extensive textual explanations of how all of Google's systems work together to receive, process, deliver, and send emails through the Gmail server. The documents even provide helpful examples and simplified flow charts to ensure that the intended audience—a Google engineer—understands Gmail's inner workings. This highly detailed information is so dense, and so sensitive, that to redact the sensitive

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information would leave virtually no substance unredacted. These internal Google documents describe in intricate detail not only how various pieces of Gmail architecture work, both independently and together, but also how changes in one system impact the larger Gmail ecosystem. These explanations run the gamut from schematics showing the flow of information through different Gmail systems, to prose explanations of Gmail's core components, to step-by-step explanations of how Gmail functions at the most detailed level. The documents also contain a substantial quantity of source code.

- 13. Public disclosure of this information would harm Google by giving competitors direct insight into technical aspects of the Gmail system that give it a competitive advantage in the marketplace. There is no industry standard for implementing the processes illustrated and discussed in Rommel Exhibit E. Rather, the specific architecture, systems, and processes illustrated and explained in Exhibit E are the result of years of trial and error by Google's engineers to optimize the functioning of Google's Gmail systems. If Rommel Exhibit E were publicly disclosed, Google's competitors would know, among other things, (1) what servers and other hardware are used in Google's processes; (2) whether Google performs particular technical functions separately or in combination; and (3) the specific *sequencing* of the various technical processes. These highly proprietary details are critical to the functioning of the Gmail system and to Google's competitive position.
- 14. For example, the technical details set out in Rommel Exhibit E are a significant part of what determines the overall speed of the Gmail system. The speed of Gmail is a valuable feature for users, and that same speed is a major competitive advantage for Google—particularly in light of the numerous email-related features that Google offers, such as spam filtering, virus detection, automatic organization of incoming emails by importance, spellchecking, search within email, automatic saving and sorting into folders, converting text URLs to clickable links, and personalized advertising. Google has spent years developing a system that can run numerous processes on incoming email while still delivering email almost instantaneously to users. Gmail's speed is in large part a result of the sequencing and organization of Google's systems for processing incoming email, which is illustrated and described in Rommel Exhibit E.

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15. Another objective achieved by Google's proprietary system design is to permit scaling. As the number of Gmail features and Gmail users has grown, Google has had to develop ways to more efficiently manage the many email features it offers. In some cases, this has resulted in pieces of infrastructure specifically dedicated to a specific task, or to systems being connected to one another in a specific way, in a manner that a competitor would not realize was superior without substantial experimentation at significant cost. Google's ability to scale its system is in large part a result of the sequencing and organization of Google's systems for processing incoming email, as reflected in Rommel Exhibit E.

16. The information reflected in Rommel Exhibit E is nonpublic, and Google takes care to keep that information confidential. If Google's competitors were able to access this information, they could simply copy Google's methods, depriving Google of a competitive advantage it earned through years of costly innovation. Competitors would receive the unfair advantage of implementing similar systems without the cost and effort of developing them independently. In addition, Google's competitors could potentially pair Google's proprietary methods with their own innovations—which are unknown to Google—giving them a product superior to what natural competition would have developed, and putting Google at a competitive disadvantage. Moreover, as noted, exposure of the details of Google's methods would reduce Google's ability to defend Gmail users from unwanted messages and harmful message content. Rommel Exhibit E raises all of these concerns throughout the document, and as such Google respectfully requests that the Court file Exhibit E only under seal.

Rommel Exhibit G

17. Rommel Exhibit G is a Google document explaining the functions of the Medley Server, a piece of Google's infrastructure. Google apportioned certain tasks to the Medley Server based upon extensive experimentation and design, none of which is public information. If this information were made public, a Google competitor could simply copy Google's organization. Competitors would receive the unfair advantage of implementing a similar system without the cost and effort of developing it independently. In addition, Google's competitors could potentially pair Google's proprietary methods with their own innovations—which are unknown to

Google—giving them a product superior to what natural competition would have developed, and putting Google at a competitive disadvantage. Because Rommel Exhibit G contains competitively sensitive and confidential information, Google respectfully requests that this Court file Rommel Exhibit G under seal in its entirety.

Rommel Exhibit L

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18. Rommel Exhibit L contains an email exchange between Google employees analyzing different Gmail systems' ability and proficiency at performing certain tasks. The emails in Rommel Exhibit L reveal highly confidential and proprietary information about how specific pieces of Gmail architecture function and interact, what information in emails Google considers valuable for its advertising services, which systems Google was seeking to improve, and how and why Google was seeking to improve those systems. These emails describe proprietary engineering and design information that took years of costly work and experimentation to develop. If disclosed, Rommel Exhibit L would provide Google competitors with an understanding of Gmail's internal architecture and its efforts to improve its systems. Competitors who viewed this information would receive the unfair advantage of implementing similar reporting systems without the cost and effort of developing them independently. Because of the harm that would be caused by the disclosure of this confidential information, Google respectfully requests that this Court file Rommel Exhibit L under seal.

Rommel Exhibit O

2. Rommel Exhibit O is a Google document titled, "User Profile Attributes." The stated objective of this document is to identify specific information that the author, a Google employee, believed could be collected from users and used in improving Gmail's services, including targeted advertising. The document also spells out the information, why it is needed, and how it can be obtained, and offers suggestions for improving the user experience in various ways. Because the document consists entirely of an analysis of what information Google does and does not already collect, why that information is important, and how Google can efficiently obtain it, the document consists of little more than a roadmap to improving an email system similar to Gmail. Competitors who viewed this information would receive the unfair advantage

of implementing similar systems without the cost and effort of developing them independently. Moreover, a Google competitor armed with this information could combine it with information it had developed with its own resources, combining Google's confidential information with its own product to obtain a competitive advantage over Google. Because Rommel Exhibit O raises these concerns throughout the entire document, Google respectfully requests that the Court file Exhibit O only under seal.

Rommel Exhibit P

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Rommel Exhibit P contains a Google document titled, "Gmail ads session 19. analysis," in which a Google employee describes in great detail an experiment he conducted in order to get a better understanding of how users interact with Gmail and why they click on ads. The engineer includes the exact information he believed was important to discover, the experiment he ran to obtain that information, and the results he obtained. He also proposes ways the Gmail engineering team can use his research to improve Google's advertising services. Rommel Exhibit P thus provides detailed insight into an aspect of Google efforts to improve its services. If this information were made public, a Google competitor could simply copy the methodology and results of this experiment and reach Google's same conclusions without undertaking any of the cost or effort of designing its own systems and running its own experiments. Competitors would receive the unfair advantage of implementing similar systems without the cost and effort of developing them independently. In addition, Google's competitors could potentially pair Google's proprietary methods with their own innovations—which are unknown to Google—giving them a product superior to what natural competition would have developed, and putting Google at a competitive disadvantage. Because Rommel Exhibit P contains competitively sensitive and confidential information, Google respectfully requests that this Court file Rommel Exhibit P under seal in its entirety.

Rommel Exhibit W

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20. Rommel Exhibit W is an internal Google report containing details related to Plaintiff Keith Dunbar's email account. This report reveals the way that Google organizes user information and what information Google has determined—through the work of its engineers and

years of practical experience—should be readily accessible. Exhibit W also contains information about the different features and possible settings of Gmail accounts, revealing the way that Gmail's internal technological processes work. Rommel Exhibit W, with its detailed fields, links, and codes, discloses how Google processes and maintains a user's account. A competitor reviewing this document would obtain valuable information about how Google's internal processes work, providing that competitor with an unfair competitive advantage in that the competitor would be able to copy Google's processes instead of having to develop its own. If publicly disclosed, this information would thus allow Google's competitors, not to mention potential hackers, insight into Google's systems that would likely cause Google or its users harm.

21. Additionally, Rommel Exhibit W provides detailed confidential information that is unique to Plaintiff Dunbar, a Google Apps user, including his email address and the name he listed for his account. Google's general policy is to protect user information, and it would be against Google's policy to reveal this type of personal information about a user. For these reasons, Google respectfully requests that this Court seal Rommel Exhibit W in its entirety.

Rommel Exhibit AA

- 22. Rommel Exhibit AA is a compilation of Google documents from centralized file sources designed specifically to give Google's own engineers detailed information about how Google's systems function. Exhibit AA contains links and extensive textual explanations of how certain Google systems work together to provide specified features to users of Google-powered email. This highly detailed information is so dense, and so sensitive, that to redact the sensitive information would leave virtually no substance unredacted. What information was not redacted would make no sense to a reader, and thus provide no value to him or her.
- 23. Public disclosure of this information would harm Google by giving competitors direct insight into technical aspects of the Gmail system that give it a competitive advantage in the marketplace. There is no industry standard for implementing the processes illustrated and discussed in Rommel Exhibit AA. Rather, the specific architecture, systems, and processes illustrated and explained in Exhibit AA are the result of years of trial and error by Google's engineers to optimize the functioning of Google's Gmail systems. If Rommel Exhibit AA were

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publicly disclosed, Google's competitors would know, among other things, how certain specific portions of Google's advertising system related to Gmail worked, in intricate detail. These highly proprietary details are highly important to the functioning of the Gmail system and to Google's competitive position.

24. The information reflected in Rommel Exhibit AA is nonpublic, and Google takes care to keep that information confidential. If Google's competitors were able to access this information, they could simply copy Google's methods, depriving Google of a competitive advantage it earned through years of costly innovation. Competitors would receive the unfair advantage of implementing similar systems without the cost and effort of developing them independently. In addition, Google's competitors could potentially pair Google's proprietary methods with their own innovations—which are unknown to Google—giving them a product superior to what natural competition would have developed, and putting Google at a competitive disadvantage. Moreover, as noted, exposure of the details of Google's methods would reduce Google's ability to defend Gmail users from unwanted messages and harmful message content. Rommel Exhibit AA raises all of these concerns throughout the document, and as such Google respectfully requests that the Court file Exhibit AA only under seal.

INDIVIDUAL REDACTION EXPLANATIONS

25. Google asks the Court to seal very limited portions of twelve documents: Plaintiffs' Motion, and Rommel Exhibits A, C, D, I, J, M, Q, S, T, U, and V. Versions of these documents with limited redactions are attached to this declaration as Lee Exhibits A through L. The following table explains in detail the reasons why each redaction in Lee Exhibits A through L redacts Sealable Information. Because Rommel Exhibit N has already been filed under seal with Google's proposed limited redactions, I do not repeat Google's justifications for sealing that information in the table below. (*Dunbar* ECF No. 292.)

Document and Portion to be Sealed	Description of Sealable Information	Potential Harm from Disclosure
Lee Exhibit A		Public disclosure of this confidential
• Page i, lines 8, 11,	the surrounding unredacted	business information could cause harm
13	information, this redacted	to Google's users by allowing
• Page 3, line 14	information discloses when	spammers to identify and respond to

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1 2 3 4 5	 Page 4, lines 18, 20 Page 5, lines 25, 27-28 Page 19, lines 13-17 	Google implemented structural changes to its email infrastructure. On these dates, Google reorganized the delivery flow sequence in order to improve spam classification and other user services.	changes in Google's systems made to combat spam messages. Disclosure could also cause Google competitive harm, as competitors could use this information to assess how an upgrade to Google's systems affected the features it was able to provide its users, and make corresponding adjustments to their own systems without incurring similar development costs.
6 7 8 9 10 11 12 13 14	Lee Exhibit A • Page 3, lines 17-19 • Page 19, lines 13- 17	These passages describe how emails flow through the Gmail system, including specific details about the sequencing process that Gmail designed through years of engineering work and experimentation to maximize speed and efficiency.	Disclosure of this detailed, proprietary information revealing the sequence in which Google implements its Gmail processes could harm Google by giving third parties a roadmap to how these emails are routed through the Gmail system for processing and delivery. A competitor could use this information to develop competing products featuring a similarly quick and efficient email flow. Potential hackers and spammers armed with this confidential information explaining how Gmail messages travel through the system could use this knowledge to enhance their attempts to bypass Google's virus detection and spam filtering functions to reach the inboxes of Gmail users.
15 16 17 18 19 20	Lee Exhibit A Page 3, lines 21-23 Page 4, lines 1-2, 7, 9, 10, 14, 16, 20-22, 24-26 Page 5, lines 3, 7, 10-15, 17, 21, 23 Page 6, lines 5-6, 8, 12 Page 8, lines 10-12 Page 19, lines 21, 23-25, 27-28	These passages describe the functions of specific pieces of Gmail infrastructure and their relationship to one another. These systems have been placed in relation to one another in a way that Google developed to make its Gmail system as efficient as possible.	Because speed and efficiency are key to Gmail's success, disclosure of confidential information revealing how Google constructs its Gmail infrastructure to optimize its systems' effectiveness would cause Google harm by permitting competitors to emulate Google's innovations.
21 22 23 24 25 26 27	Lee Exhibit A • Page 11, lines 13- 17 Lee Exhibit A	These passages describe which information about its systems and users' activities Google creates records of, where this information is stored, and how long Google maintains these records. This indicates which information Google considers important to monitor in maintaining its systems, and how Google organizes and stores this information. These passages describe	Disclosure of this confidential information would alert competitors to the types of information that Google deems worthwhile to record and allow them to narrow their own recording processes in competing products, thus causing Google competitive harm.
28	Lee Lamon 1	These passages describe	Discressive of this confidential

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1 2	Page 5, line 21Page 6, lines 5-6, 8	Google's methods for efficiently storing email information, and suggest how user activity affects the	information would alert competitors to Google's data storage techniques, which were developed at significant cost and over a long period of time.
3		preservation of certain data. This shows how Google	This would permit competitors to use these same processes in competing
4		organizes and stores this information to minimize	products without undertaking similar development burdens, causing Google
5		unnecessary retention of data and to offer users the greatest possible amount of storage	competitive harm.
7	Lee Exhibit B	space for their accounts. These passages reveal which	Disclosure of this confidential
8	Page 17, line 25Page 18, lines 1-6,	servers and sub-processes play a role in the overall	information would alert competitors to the types of processes that Gmail
9	8-11 • Page 19, lines 4-7,	Gmail delivery process.	performs during the email delivery process, depriving Google of a
10	10-18 • Page 20, lines 3-6,		competitive advantage it has gained through its innovative structuring of the email delivery process.
11	• Page 68, lines 8-9, 11-12, 14		chian derivery process.
12	• Page 75, lines 19- 20, 23-25		
13	• Page 76, line 1 Lee Exhibit B	These passages describe how	Disclosure of this detailed, proprietary
1415	• Page 16, lines 3-5, 8, 12, 14-15, 17-18, 20, 24-25	emails flow through the Gmail system, including specific details about the	information revealing the sequence in which Google implements its Gmail processes could harm Google by giving
16	 Page 17, line 4 Page 21, lines 15- 	sequencing process that Gmail designed through	third parties a roadmap to how these emails are routed through the Gmail
17	23, 25 • Page 22, lines 8-9, 11-13, 20, 22, 24-	years of engineering work and experimentation to maximize speed and	system for processing and delivery. A competitor could use this information to develop competing products featuring a
18	25 • Page 23, lines 1-9,	efficiency.	similarly quick and efficient email flow. Potential hackers and spammers armed
19	11-13 • Page 28, lines 2-9,		with this confidential information explaining how Gmail messages travel
20 21	18 • Page 29, line 10 • Page 37, lines 1-6,		through the system could use this knowledge to enhance their attempts to bypass Google's virus detection and
22	12-19, 23-25 • Page 38, lines 1-4,		spam filtering functions to reach the inboxes of Gmail users.
23	6-7, 10-13, 15-16, 19-24		
24	• Page 39, lines 1-4, 8-11, 15-16, 20-24		
25	 Page 40, lines 4-6, 9-18, 20-21, 23-25 Page 42, lines 1-2, 		
26	• Page 43, lines 14-		
27	15, 17-21, 23-25 • Page 44, lines 1-4,		
28	7-15		

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1	• Page 50, lines 22-		
2	25 • Page 53, lines 3-4,		
3	6-13 • Page 65, lines 1, 3-		
4	8, 10-11, 13-15, 17-19, 21-25		
5	Page 66, lines 1-6Page 67, lines 3-4,		
6	7-12, 23-25 • Page 68, lines 1-7,		
7	20-23, 25 • Page 73, lines 1, 5-		
8	11, 16, 19-20 • Page 74, lines 24- 25		
9	• Page 75, lines 16- 17, 19-20		
10	• Page 76, lines 1, 3-4, 19-21, 24-25		
11	• Page 77, lines 1-2 Lee Exhibit B	These passages describe the	Recause speed and officiency are less to
12	• Page 41, lines 1-3,	These passages describe the functions of specific pieces of Gmail infrastructure and	Because speed and efficiency are key to Gmail's success, disclosure of
13	5-7, 16-18, 21-24 • Page 42, lines 8-9, 12-16, 19-24	their relationship to one another. These systems have	confidential information revealing how Google constructs its Gmail infrastructure to optimize its systems'
14	• Page 43, lines 3-11	been placed in relation to one	effectiveness would cause Google harm
15	• Page 44, lines 16, 18, 20-25	another in a way that Google developed to make its Gmail	by permitting competitors to emulate Google's innovations.
16	• Page 45, lines 1-2, 4-8, 10, 12-19, 21- 22, 24-25	system as efficient as possible.	
17	• Page 50, lines 1-3, 5-6, 9-10, 15		
18	• Page 53, lines 15- 18, 20-25		
19	• Page 54, lines 1, 3-4, 7-8, 10-13		
20	• Page 55, lines 24- 25		
21	• Page 77, lines 11, 13, 18, 19		
22	Lee Exhibit B • Page 54, lines 15,	These passages identify changes or improvements	Public disclosure of this confidential business information could cause harm
23	17-18, 20, 22-25 • Page 55, lines 1-4,	Google has made to its infrastructure and delivery	to Google's users by allowing spammers to identify and respond to
24	8-12, 17-18, 20-21 • Page 65, lines 21-	processes, and/or changes that Google intends to	changes in Google's systems made to combat spam messages. Disclosure
25	25 • Page 66, lines 1-6,	implement in the near future. These passages explain how	could also cause Google competitive harm, as competitors could use this
26	11-14, 16-19, 24 • Page 67, lines 7-12	these changes enhance the Gmail system and benefit	information to assess how an upgrade to Google's systems affected the features
2728	- 1 age 07, mies 7-12	users.	it was able to provide its users, and make corresponding adjustments to their own systems without incurring
20			DECL OF LEE 1/S/O COOCLE INC 25

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1			similar development costs.
_	Lee Exhibit C	These passages reveal the	Disclosure of this confidential and
2	• Page 12, lines 10- 12	number of Google Apps customers or accounts and	proprietary business information would
3	• Page 13, line 17	the number of Gmail users,	cause Google competitive harm because its competitors could use this
	• Page 14, lines 19-	broken down by year.	information to enhance their own
4	27		business plans and market forecasts.
5	• Page 15, lines 13- 20		
6	Lee Exhibit C • Page 15, lines 23-	These passages, when read in context with the unredacted	Disclosure of this detailed, proprietary information revealing the sequence in
7	24 • Page 17, lines 11-	portions of the document, reveal how emails flow	which Google implements its Gmail processes could harm Google by giving third parties a readment to have these
8	12, • Page 23, lines 13- 18, 22, 24, 27-28	through the Gmail system, including specific details about the sequencing process	third parties a roadmap to how these emails are routed through the Gmail system for processing and delivery. A
9	 Page 28, line 19 Page 29, line 1, 17- 	that Gmail designed through years of engineering work	competitor could use this information to develop competing products featuring a
10	20	and experimentation to maximize speed and	similarly quick and efficient email flow. Potential hackers and spammers armed
11 12		efficiency.	with this confidential information explaining how Gmail messages travel through the system could use this
13			knowledge to enhance their attempts to bypass Google's virus detection and
14			spam filtering functions to reach the inboxes of Gmail users.
15	Lee Exhibit C	This is a description	Disclosure of this confidential
	Page 15, line 28Page 16, lines 5, 9-	indicating that Google has dedicated a specific server or	information would enable competitors to copy Google's innovation without
16	10, 17	piece of infrastructure to a	incurring the costs of developing their
1.7	·	particular task. This is an	own processes, thus depriving Google
17		innovation Google developed	of a competitive advantage.
18		to make a specific aspect of the Gmail system more	
		efficient.	
19	Lee Exhibit C	These passages describe the	Because speed and efficiency are key to
20	• Page 17, lines 27-	functions of specific pieces	Gmail's success, disclosure of
20	28 • Page 18, lines 1-8,	of Gmail infrastructure and their relationship to one	confidential information revealing how Google constructs its Gmail
21	13-14, 17-23, 25-	another. These systems have	infrastructure to optimize its systems'
22	28 • Page 19, lines 1-9,	been placed in relation to one another in a way that Google	effectiveness would cause Google harm by permitting competitors to emulate
23	11-18, 20, 24-28 • Page 20, lines 5,	developed to make its Gmail system as efficient as	Google's innovations.
	15, 18, 23-24, 26-	possible.	
24	28		
25	• Page 21, lines 1-2, 4, 7, 14, 20, 22-28		
	• Page 22, lines 6, 8-		
26	15, 17-25		
27	• Page 23, lines 1-8,		
<i>-</i> 1	11-12 • Page 24, lines 2-11,		
28	1 450 2 1, 111105 2 11,		

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1	14-17, 21-25		
	• Page 25, lines 1-8,		
2	15-19, 28		
3	• Page 26, lines 1-6, 9-26		
5	• Page 30, lines 10-		
4	19, 22-24		
	• Page 32, lines 1-2		
5	Lee Exhibit C	These passages describe	The location and interaction of scanning
6	• Page 18, lines 13-	where in the Gmail	systems would give third parties insight
6	14, 17-23 • Page 19, lines 5-6,	infrastructure specific	into how Google is able to quickly and efficiently process and deliver messages
7	13-16	scanning processes take place. These processes have	to its users; as a result, disclosure of this
	• Page 20, lines 5,	been deliberately placed in	confidential information would harm
8	15, 18, 23-24, 26-	these locations to maximize	Google by giving competitors an unfair
	28	the speed and efficiency of	opportunity to copy Google's system
9	• Page 21, lines 2, 4, 7, 14, 20, 22-28	the Gmail system.	and deprive Google of a competitive advantage.
10	• Page 22, lines 1-3		advantage.
	• Page 30, lines 24,		
11	28		
12	• Page 31, lines 1-9, 11-21		
		TD1	7 111 11 1 0 1 1 1 1
	Lee Exhibit C	These passages identify	Public disclosure of this confidential
13	Lee Exhibit C • Page 22, lines 3-5	These passages identify improvements Google has	Public disclosure of this confidential business information could cause
	Page 22, lines 3-5Page 26, lines 9-13,	improvements Google has made to its infrastructure and	business information could cause Google competitive harm, as
13 14	• Page 22, lines 3-5	improvements Google has made to its infrastructure and processes, and/or changes	business information could cause Google competitive harm, as competitors could use this information
14	Page 22, lines 3-5Page 26, lines 9-13,	improvements Google has made to its infrastructure and processes, and/or changes that Google intends to	business information could cause Google competitive harm, as competitors could use this information to assess how an upgrade to Google's
	Page 22, lines 3-5Page 26, lines 9-13,	improvements Google has made to its infrastructure and processes, and/or changes that Google intends to implement in the near future.	business information could cause Google competitive harm, as competitors could use this information to assess how an upgrade to Google's systems affected the features it was able
14	Page 22, lines 3-5Page 26, lines 9-13,	improvements Google has made to its infrastructure and processes, and/or changes that Google intends to implement in the near future. These passages explain how	business information could cause Google competitive harm, as competitors could use this information to assess how an upgrade to Google's systems affected the features it was able to provide its users, and make
14 15 16	Page 22, lines 3-5Page 26, lines 9-13,	improvements Google has made to its infrastructure and processes, and/or changes that Google intends to implement in the near future. These passages explain how these changes enhance the Gmail system and benefit	business information could cause Google competitive harm, as competitors could use this information to assess how an upgrade to Google's systems affected the features it was able to provide its users, and make corresponding adjustments to their own systems without incurring similar
14 15	 Page 22, lines 3-5 Page 26, lines 9-13, 20-26 	improvements Google has made to its infrastructure and processes, and/or changes that Google intends to implement in the near future. These passages explain how these changes enhance the Gmail system and benefit users.	business information could cause Google competitive harm, as competitors could use this information to assess how an upgrade to Google's systems affected the features it was able to provide its users, and make corresponding adjustments to their own systems without incurring similar development costs.
14 15 16 17	 Page 22, lines 3-5 Page 26, lines 9-13, 20-26 Lee Exhibit C	improvements Google has made to its infrastructure and processes, and/or changes that Google intends to implement in the near future. These passages explain how these changes enhance the Gmail system and benefit users. These passages describe	business information could cause Google competitive harm, as competitors could use this information to assess how an upgrade to Google's systems affected the features it was able to provide its users, and make corresponding adjustments to their own systems without incurring similar development costs. Disclosure of this confidential
14 15 16	 Page 22, lines 3-5 Page 26, lines 9-13, 20-26 Lee Exhibit C Page 23, lines 25- 	improvements Google has made to its infrastructure and processes, and/or changes that Google intends to implement in the near future. These passages explain how these changes enhance the Gmail system and benefit users. These passages describe which information about its	business information could cause Google competitive harm, as competitors could use this information to assess how an upgrade to Google's systems affected the features it was able to provide its users, and make corresponding adjustments to their own systems without incurring similar development costs. Disclosure of this confidential information would alert competitors to
14 15 16 17	 Page 22, lines 3-5 Page 26, lines 9-13, 20-26 Lee Exhibit C	improvements Google has made to its infrastructure and processes, and/or changes that Google intends to implement in the near future. These passages explain how these changes enhance the Gmail system and benefit users. These passages describe	business information could cause Google competitive harm, as competitors could use this information to assess how an upgrade to Google's systems affected the features it was able to provide its users, and make corresponding adjustments to their own systems without incurring similar development costs. Disclosure of this confidential
14 15 16 17 18 19	 Page 22, lines 3-5 Page 26, lines 9-13, 20-26 Lee Exhibit C Page 23, lines 25-26 Page 29, lines 17-18, 21-28 	improvements Google has made to its infrastructure and processes, and/or changes that Google intends to implement in the near future. These passages explain how these changes enhance the Gmail system and benefit users. These passages describe which information about its systems and users' activities Google creates records of, where this information is	business information could cause Google competitive harm, as competitors could use this information to assess how an upgrade to Google's systems affected the features it was able to provide its users, and make corresponding adjustments to their own systems without incurring similar development costs. Disclosure of this confidential information would alert competitors to the types of information that Google deems worthwhile to record and allow them to narrow their own recording
14 15 16 17 18	 Page 22, lines 3-5 Page 26, lines 9-13, 20-26 Lee Exhibit C Page 23, lines 25-26 Page 29, lines 17-18, 21-28 Page 30, lines 4-5 	improvements Google has made to its infrastructure and processes, and/or changes that Google intends to implement in the near future. These passages explain how these changes enhance the Gmail system and benefit users. These passages describe which information about its systems and users' activities Google creates records of, where this information is stored, and how long Google	business information could cause Google competitive harm, as competitors could use this information to assess how an upgrade to Google's systems affected the features it was able to provide its users, and make corresponding adjustments to their own systems without incurring similar development costs. Disclosure of this confidential information would alert competitors to the types of information that Google deems worthwhile to record and allow them to narrow their own recording processes in competing products, thus
14 15 16 17 18 19 20	 Page 22, lines 3-5 Page 26, lines 9-13, 20-26 Lee Exhibit C Page 23, lines 25-26 Page 29, lines 17-18, 21-28 Page 30, lines 4-5 Page 31, lines 25- 	improvements Google has made to its infrastructure and processes, and/or changes that Google intends to implement in the near future. These passages explain how these changes enhance the Gmail system and benefit users. These passages describe which information about its systems and users' activities Google creates records of, where this information is stored, and how long Google maintains these records. This	business information could cause Google competitive harm, as competitors could use this information to assess how an upgrade to Google's systems affected the features it was able to provide its users, and make corresponding adjustments to their own systems without incurring similar development costs. Disclosure of this confidential information would alert competitors to the types of information that Google deems worthwhile to record and allow them to narrow their own recording
14 15 16 17 18 19	 Page 22, lines 3-5 Page 26, lines 9-13, 20-26 Lee Exhibit C Page 23, lines 25-26 Page 29, lines 17-18, 21-28 Page 30, lines 4-5 	improvements Google has made to its infrastructure and processes, and/or changes that Google intends to implement in the near future. These passages explain how these changes enhance the Gmail system and benefit users. These passages describe which information about its systems and users' activities Google creates records of, where this information is stored, and how long Google maintains these records. This indicates which information	business information could cause Google competitive harm, as competitors could use this information to assess how an upgrade to Google's systems affected the features it was able to provide its users, and make corresponding adjustments to their own systems without incurring similar development costs. Disclosure of this confidential information would alert competitors to the types of information that Google deems worthwhile to record and allow them to narrow their own recording processes in competing products, thus
14 15 16 17 18 19 20	 Page 22, lines 3-5 Page 26, lines 9-13, 20-26 Lee Exhibit C Page 23, lines 25-26 Page 29, lines 17-18, 21-28 Page 30, lines 4-5 Page 31, lines 25- 	improvements Google has made to its infrastructure and processes, and/or changes that Google intends to implement in the near future. These passages explain how these changes enhance the Gmail system and benefit users. These passages describe which information about its systems and users' activities Google creates records of, where this information is stored, and how long Google maintains these records. This	business information could cause Google competitive harm, as competitors could use this information to assess how an upgrade to Google's systems affected the features it was able to provide its users, and make corresponding adjustments to their own systems without incurring similar development costs. Disclosure of this confidential information would alert competitors to the types of information that Google deems worthwhile to record and allow them to narrow their own recording processes in competing products, thus
14 15 16 17 18 19 20 21 22	 Page 22, lines 3-5 Page 26, lines 9-13, 20-26 Lee Exhibit C Page 23, lines 25-26 Page 29, lines 17-18, 21-28 Page 30, lines 4-5 Page 31, lines 25- 	improvements Google has made to its infrastructure and processes, and/or changes that Google intends to implement in the near future. These passages explain how these changes enhance the Gmail system and benefit users. These passages describe which information about its systems and users' activities Google creates records of, where this information is stored, and how long Google maintains these records. This indicates which information Google considers important to monitor in maintaining its systems, and how Google	business information could cause Google competitive harm, as competitors could use this information to assess how an upgrade to Google's systems affected the features it was able to provide its users, and make corresponding adjustments to their own systems without incurring similar development costs. Disclosure of this confidential information would alert competitors to the types of information that Google deems worthwhile to record and allow them to narrow their own recording processes in competing products, thus
14 15 16 17 18 19 20 21	 Page 22, lines 3-5 Page 26, lines 9-13, 20-26 Lee Exhibit C Page 23, lines 25-26 Page 29, lines 17-18, 21-28 Page 30, lines 4-5 Page 31, lines 25- 	improvements Google has made to its infrastructure and processes, and/or changes that Google intends to implement in the near future. These passages explain how these changes enhance the Gmail system and benefit users. These passages describe which information about its systems and users' activities Google creates records of, where this information is stored, and how long Google maintains these records. This indicates which information Google considers important to monitor in maintaining its systems, and how Google organizes and stores this	business information could cause Google competitive harm, as competitors could use this information to assess how an upgrade to Google's systems affected the features it was able to provide its users, and make corresponding adjustments to their own systems without incurring similar development costs. Disclosure of this confidential information would alert competitors to the types of information that Google deems worthwhile to record and allow them to narrow their own recording processes in competing products, thus
14 15 16 17 18 19 20 21 22	 Page 22, lines 3-5 Page 26, lines 9-13, 20-26 Lee Exhibit C Page 23, lines 25-26 Page 29, lines 17-18, 21-28 Page 30, lines 4-5 Page 31, lines 25- 	improvements Google has made to its infrastructure and processes, and/or changes that Google intends to implement in the near future. These passages explain how these changes enhance the Gmail system and benefit users. These passages describe which information about its systems and users' activities Google creates records of, where this information is stored, and how long Google maintains these records. This indicates which information Google considers important to monitor in maintaining its systems, and how Google	business information could cause Google competitive harm, as competitors could use this information to assess how an upgrade to Google's systems affected the features it was able to provide its users, and make corresponding adjustments to their own systems without incurring similar development costs. Disclosure of this confidential information would alert competitors to the types of information that Google deems worthwhile to record and allow them to narrow their own recording processes in competing products, thus

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¹ In *Dunbar*, this Court has already sealed significant portions of Rommel Exhibit D, the deposition of Thompson Gawley. (ECF Nos. 290, 292.) The Court has already reviewed and approved Google's limited redactions on the following pages: 8, 15-16, 82-90, 97, 100-106, 159, 175-178, 191-223, 225, and 227-228. To facilitate the Court's review, I discuss only pages that have not yet been reviewed and sealed, and do not repeat Google's justifications for sealing the already-sealed portions of Rommel Exhibit D.

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1	•	Page 29, lines 9, 14, 17, 23, 25	which information about its systems and users' activities	information would alert competitors to the types of information that Google
2	•	Page 45, lines 3-4, 6, 9, 11, 13-14, 17,	Google creates records of, where this information is	deems worthwhile to record and allow them to narrow their own recording
3	•	19-20, 24 Page 46, lines 3-4,	stored, and how long Google maintains these records. This	processes in competing products, thus causing Google competitive harm.
4		12-13, 22-23, 25 Page 70, lines 9-10	indicates which information Google considers important	
5	•	Page 122, lines 1-2, 5-7	to monitor in maintaining its systems, and how Google	
6	•	Page 123, lines 9- 12, 14, 17, 24-25	organizes and stores this information.	
7	•	Page 124, lines 1-2, 4-6, 9-10, 12-13,	information.	
8		15-16, 18-19, 24		
9	•	Page 125, lines 1, 3, 5, 10-11, 14-15, 21-22, 24		
10	•	Page 136, lines 19- 21, 23-24		
11	•	Page 148, lines 1-4, 12, 14-15, 17-20,		
12	•	23 Page 149, lines 1,		
13		23-24 Page 150, lines 3-4		
14	Lec	e Exhibit D Page 37, lines 11,	These passages describe the functions of specific pieces	Because speed and efficiency are key to Gmail's success, disclosure of
15		15, 17, 19, 22-23 Page 38, lines 1, 6,	of Gmail infrastructure and their relationship to one	confidential information revealing how Google constructs its Gmail
16		13	another. These systems have	infrastructure to optimize its systems'
17	•	Page 39, lines 4-6, 23-24	been placed in relation to one another in a way that Google	effectiveness would cause Google harm by permitting competitors to emulate
18	•	Page 40, lines 18- 20	developed to make its Gmail system as efficient as	Google's innovations.
19	•	Page 45, lines 3-4, 6, 9, 11, 13-14, 17,	possible.	
20	•	19-20, 24 Page 77, lines 3-6		
21	•	Page 150, lines 9- 11, 16-17, 20-21		
22	Lee	e Exhibit D Page 133, lines 5-	These passages describe how emails flow through the	Disclosure of this detailed, proprietary information revealing the sequence in
23	•	11, 16 Page 134, lines 2-3,	Gmail system, including specific details about the	which Google implements its Gmail processes could harm Google by giving
24		15	sequencing process that Gmail designed through	third parties a roadmap to how these emails are routed through the Gmail
25			years of engineering work and experimentation to	system for processing and delivery. A competitor could use this information to
26			maximize speed and efficiency.	develop competing products featuring a similarly quick and efficient email flow.
27				Potential hackers and spammers armed with this confidential information
28				explaining how Gmail messages travel through the system could use this
,				DECL. OF LEE I/S/O GOOGLE INC.'S

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1 2 3	Lee Exhibit D	These passages describe	knowledge to enhance their attempts to bypass Google's virus detection and spam filtering functions to reach the inboxes of Gmail users. Disclosure of this confidential
4	• Page 117, lines 1-4, 12, 16, 21-24	which information about its systems and activities Google	information would alert competitors to the types of information that Google
5		creates records of, and which information it does not	deems worthwhile to record and allow them to narrow their own recording
6		record. This indicates which information Google	processes in competing products, thus causing Google competitive harm.
7		considers important to monitor in further developing its systems.	
8	Lee Exhibit E	These passages describe the	Because speed and efficiency are key to
9	• Page 206, lines 9, 13, 21-22	functions of specific pieces of Gmail infrastructure and	Gmail's success, disclosure of confidential information revealing how
10	 Page 207, lines 1-2 Page 217, lines 24- 25 	their relationship to one another. These systems have been placed in relation to one	Google constructs its Gmail infrastructure to optimize its systems' effectiveness would cause Google harm
11	• Page 218, lines 1,	another in a way that Google	by permitting competitors to emulate
12	6-7 • Page 219, lines 1-2, 7, 12, 18, 20	developed to make its Gmail system as efficient as	Google's innovations.
13	• Page 220, line 6	possible.	
14	Lee Exhibit E • Page 207, lines 9-	These passages describe how emails flow through the	Disclosure of this detailed, proprietary information revealing the sequence in
15	10, 16-18, 23-25 • Page 298, lines 21- 22	Gmail system, including specific details about the	which Google implements its Gmail processes could harm Google by giving
16	• Page 305, lines 1, 13, 21	sequencing process that Gmail designed through years of engineering work	third parties a roadmap to how these emails are routed through the Gmail system for processing and delivery. A
17	• Page 306, lines 7,	and experimentation to maximize speed and	competitor could use this information to develop competing products featuring a
18	• Page 308, lines 16-	efficiency.	similarly quick and efficient email flow. Potential hackers and spammers armed
19	• Page 310, lines 11- 12, 16-17		with this confidential information explaining how Gmail messages travel
20	• Page 311, lines 19- 21		through the system could use this knowledge to enhance their attempts to
21	• Page 312, lines 8- 11, 21, 25		bypass Google's virus detection and spam filtering functions to reach the
22	• Page 313, lines 1-2, 10-12, 22-25		inboxes of Gmail users.
23	• Page 314, lines 4-9, 12-16, 20-21		
24	• Page 315, lines 2-4, 6-10, 13-14		
25	• Page 316, lines 15, 20-24		
26	• Page 317, lines 7- 10, 24-25		
27	• Page 318, lines 6-7, 19-20		
28		L	

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1	• Page 319, lines 9-		
2 3	Lee Exhibit E • Page 207, lines 9- 10, 23-25	These passages identify changes or improvements Google has made to its	Public disclosure of this confidential business information could cause harm to Google's users by allowing
4	 Page 208, line 1 Page 218, lines 13, 23 	infrastructure and processes, and/or changes that Google intends to implement in the	spammers to identify and respond to changes in Google's systems made to combat spam messages. Disclosure
5 6	Page 219, lines 1-2Page 220, line 2	near future. These passages explain how these changes	could also cause Google competitive harm, as competitors could use this information to assess how an ungrade to
7		enhance the Gmail system and benefit users.	information to assess how an upgrade to Google's systems affected the features it was able to provide its users, and
8			make corresponding adjustments to their own systems without incurring similar development costs.
9	Lee Exhibit F • Pages 9-14, 17, 19, 27-29	These passages describe how emails flow through the	Disclosure of this detailed, proprietary information revealing the sequence in which Google implements its Gmail
11	21-29	Gmail system, including specific details about the sequencing process that	processes could harm Google by giving third parties a roadmap to how these
12		Gmail designed through years of engineering work	emails are routed through the Gmail system for processing and delivery. A
13		and experimentation to maximize speed and	competitor could use this information to develop competing products featuring a
14		efficiency.	similarly quick and efficient email flow. Potential hackers and spammers armed with this confidential information
15			explaining how Gmail messages travel through the system could use this
16 17			knowledge to enhance their attempts to bypass Google's virus detection and spam filtering functions to reach the
			inboxes of Gmail users.
18 19	Lee Exhibit F • Pages 10-11, 27-28	These passages describe a Google innovation in the storage of email metadata.	Because the amount of storage space Google is able to offer is a key competitive advantage, disclosure of
20		This method was designed to store data as efficiently as	confidential information related to how Google manages its storage of emails
21		possible and allow Google to maximize the amount of	and metadata would cause Google harm by permitting competitors to emulate
22	Lee Exhibit F • Pages 19, 27-29	storage it offers to its users. These passages describe the	Google's innovations. Because speed and efficiency are key to
23	• Pages 19, 27-29	functions of specific pieces of Gmail infrastructure and their relationship to one	Gmail's success, disclosure of confidential information revealing how Google constructs its Gmail
24		another. These systems have been placed in relation to one	infrastructure to optimize its systems' effectiveness would cause Google harm
2526		another in a way that Google developed to make its Gmail	by permitting competitors to emulate Google's innovations.
		system as efficient as possible.	
27	Lee Exhibit G • Pages 1-2	These are descriptions of the email information Google	If a competitor had access to the specific information Google scans for,
28	- 1 uges 1-2	- chian information dougic	specific information Google scans for,

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1 2		scans for in order to provide services to Gmail users. Google's selection of which	as well as the information that Google has chosen to not scan for in an effort to streamline its system, that competitor
3		information to use is tailored to allow Google to provide	could use this knowledge to create or enhance a competing product. As a
4		numerous features without	result, disclosure of this proprietary and
		slowing the Gmail system by running email through	confidential information would harm Google.
5	Lee Exhibit G	unnecessary processes. These passages describe the	Because speed and efficiency are key to
6	• Pages 1-2	functions of specific pieces of Gmail infrastructure and	Gmail's success, disclosure of confidential information revealing how
7		their relationship to one another. These systems have	Google constructs its Gmail
8		been placed in relation to one	infrastructure to optimize its systems' effectiveness would cause Google harm
9		another in a way that Google developed to make its Gmail	by permitting competitors to emulate Google's innovations.
10		system as efficient as possible.	
11	Lee Exhibit G • Page 2	This is a description of particular user behavior that	Because this confidential information describes the significant user behavior
12	180 2	Google views as significant	Google uses to provide innovative email services, disclosure of this
13		in helping determine which emails users find significant.	information would cause Google harm
		This information can be used to, among other things, help	by allowing competitors to identify and use this information in their own
14		users sort their emails in order of importance, and to	products.
15	I E-10.0 II	identify spam email.	Disalessas of this confidential
16	Lee Exhibit H • Pages 2, 5, 8, 10,	Lee Exhibit H is the Google Apps Partners agreement between Google and Cable	Disclosure of this confidential information would result in competitive harm to Google because potential
17		One. On December 12, 2012, the Court granted	Google Apps partners could use this information against Google in future
18		Google's motion to seal the	contract negotiations, and Google's
19		page titled "Amendment Number One to Google Apps	competitors could use this information to compete with Google for the
20		Partner Edition Agreement" in its entirety because it	business of potential Google partners.
21		contained confidentiality negotiated terms, such as	
22		price per user, number of accounts to be provided,	
23		payment schedule, and bank account information. (Order,	
24		ECF No. 227, at 8.) Although Plaintiffs seek to	
25		seal the entire contract,	
		Google has proposed limited redactions to protect only	
26		those highly confidential terms, in accordance with the	
27	I ao Evhibit I	Court's December ruling.	Disalogues of manticular towns and
28	Lee Exhibit I	These passages describe the	Disclosure of particular terms and

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1	• Page 10, lines 8-9	confidential terms of an	agreements between Google and Cable
2		agreement between Cable One and Google.	One would cause Google harm by informing Google's competitors and
3			potential partners what terms Google has been willing to accept and thus
4			harming Google's position in
7	Lee Exhibit J ²	These passages describe	negotiations. The location and interaction of scanning
5	• Pages 8-12, 15-16	where in the Gmail infrastructure specific	systems would give third parties insight into how Google is able to quickly and
6		scanning processes take place. These processes have	efficiently process and deliver messages to its users; as a result, disclosure of this
7		been deliberately placed in	confidential information would harm
8		these locations to maximize the speed and efficiency of	Google by giving competitors an unfair opportunity to copy Google's system
9		the Gmail system.	and deprive Google of a competitive advantage.
10	Lee Exhibit J • Pages 8-13, 16	These passages describe how emails flow through the	Disclosure of this detailed, proprietary information revealing the sequence in
11	1 4 4 5 5 6 7 5 7 6	Gmail system, including specific details about the	which Google implements its Gmail processes could harm Google by giving
12		sequencing process that	third parties a roadmap to how these
		Gmail designed through years of engineering work	emails are routed through the Gmail system for processing and delivery. A
13		and experimentation to maximize speed and	competitor could use this information to develop competing products featuring a
14		efficiency.	similarly quick and efficient email flow.
15			Potential hackers and spammers armed with this confidential information
16			explaining how Gmail messages travel through the system could use this
17			knowledge to enhance their attempts to bypass Google's virus detection and
18			spam filtering functions to reach the inboxes of Gmail users.
	Lee Exhibit J	These passages describe how	Disclosure of this confidential
19	• Pages 8, 16	Gmail's email flow sequencing and task structure	information would enable competitors to copy Google's innovation without
20		has changed over time, implementing Google	incurring the costs of developing their own processes, thus depriving Google
21		engineers' innovations	of a competitive advantage.
22		discovered through trial and error in order to improve the	
23		efficiency and utility of the Gmail system	
24	Lee Exhibit J	These passages describe	Disclosure of this confidential
24	• Pages 9-13, 17-18, 25-27	which information about its systems and users' activities	information would alert competitors to the types of information that Google
25	2J-21	Google creates records of,	deems worthwhile to record and allow
2.			

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² Google's Second Supplemental Responses and Objections to Plaintiff Debra L. Marquis' First Set of Interrogatories was sealed with Google's proposed limited redactions by the *Dunbar* Court. (Dunbar ECF No. 292.) The redactions proposed for Exhibit J, Google's First Supplemental Reponses and Objections, conform to the now-sealed Second Supplemental Responses.

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1		where this information is	them to narrow their own recording
2		stored, and how user activity affects the preservation of	processes in competing products, thus causing Google competitive harm.
3		this data. This indicates which information Google	
		considers important to	
4		monitor in maintaining its systems, and how Google	
5		organizes and stores this information.	
6	Lee Exhibit K • Pages 9-10, 15, 18-	These passages describe where in the Gmail	The location and interaction of scanning
7	20, 22-23, 26	infrastructure specific	systems would give third parties insight into how Google is able to quickly and
8		scanning processes take place. These processes have	efficiently process and deliver messages to its users; as a result, disclosure of this
9		been deliberately placed in these locations to maximize	confidential information would harm Google by giving competitors an unfair
10		the speed and efficiency of the Gmail system.	opportunity to copy Google's system and deprive Google of a competitive
11	Lee Exhibit L	These passages describe the	advantage. Because speed and efficiency are key to
12	• Page 6, lines 13-22, 24-26	functions of specific pieces of Gmail infrastructure and	Gmail's success, disclosure of confidential information revealing how
13	• Page 7, lines 1-8,	their relationship to one	Google constructs its Gmail
	12-13, 17-24, 26 • Page 8, lines 4-15	another. These systems have been placed in relation to one	infrastructure to optimize its systems' effectiveness would cause Google harm
14	Page 12, lines 28Page 13, lines 1-7,	another in a way that Google developed to make its Gmail	by permitting competitors to emulate Google's innovations.
15	12, 17 • Page 14, lines 1, 3,	system as efficient as	
16	7, 10-11, 14-28	possible.	
17	• Page 15, lines 1-11, 15-18, 26, 28		
18	• Page 16, line 1		
19	Lee Exhibit L • Page 7, lines 17-24,	These passages describe how emails flow through the	Disclosure of this detailed, proprietary information revealing the sequence in
20	28 • Page 8, lines 1, 4-	Gmail system, including specific details about the	which Google implements its Gmail processes could harm Google by giving
21	15, 17-24 • Page 12, lines 15,	sequencing process that Gmail designed through	third parties a roadmap to how these emails are routed through the Gmail
22	18-21, 23-25	years of engineering work and experimentation to	system for processing and delivery. A competitor could use this information to
23		maximize speed and efficiency.	develop competing products featuring a similarly quick and efficient email flow.
24			Potential hackers and spammers armed with this confidential information
25			explaining how Gmail messages travel
26			through the system could use this knowledge to enhance their attempts to
			bypass Google's virus detection and spam filtering functions to reach the
27	Lee Exhibit L	These passages describe	inboxes of Gmail users. Disclosure of this confidential
28	Lee Lamon L	These passages describe	Disclosure of this confidential

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Page 6, lines 27-28
Page 7, lines 25-26
Page 8, lines 26-28
Page 9, lines 1-4

which information about its systems and activities Google creates records of, and which information it does not record. This indicates which information Google considers important to monitor in further developing its systems.

information would alert competitors to the types of information that Google deems worthwhile to record and allow them to narrow their own recording processes in competing products, thus causing Google competitive harm.

26. All of the above information relates to internal information, proprietary processes, or business decision-making within Google that is confidential and highly sensitive in nature. Google's users benefit from the confidentiality of this information because confidentiality protects their security and permits Google to provide innovative features in a competitive market for email services. Google also derives economic benefit from the confidentiality of this information, which reflects the specific information that Google uses and evaluates in connection with its Gmail and Google Apps systems. Google does not disclose this information to its competitors, customers, or the general public. Public disclosure of this information would cause Google significant harm by giving third parties insight into confidential and sensitive aspects of Google's internal operations, and could harm users by giving hackers or spammers insight into the protections Google provides against those individuals. For these reasons, Google respectfully requests that this motion be granted, and that the Court seal information as requested above.

I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct. Executed on October 29, 2013, in Mountain View, California.

/s/ Han Lee Han Lee

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1	FILER'S ATTESTATION			
2	Pursuant to Local Rule 5-1(i)(3), I attest under penalty of perjury that concurrence in the			
3	3 filing of this document has been obtained from	filing of this document has been obtained from its signatory.		
4	4			
5	5 Dated: October 29, 2013	COOLEY LLP		
6	6 V	MICHAEL G. RHODES (116127) WHITTY SOMVICHIAN (194463) CYLE C. WONG (224021)		
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9	$\frac{78}{V}$	Whitty Somvichian (194463)		
10	A C	Whitty Somvichian (194463) Attorneys for Defendant GOOGLE INC.		
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