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8	GOOGLE INC.		
9	UNITED STATES	DISTRICT COURT	
10	NORTHERN DISTRICT OF CALIFORNIA		
11	SAN JOSE DIVISION		
12			
13	IN RE GOOGLE INC. GMAIL LITIGATION	Case No. 5:13-md-02430 LHK (PSG)	
14		DECLARATION OF STACEY KAPADIA IN SUPPORT OF DEFENDANT GOOGLE INC.'S	
15		ADMINISTRATIVE MOTION TO FILE PORTIONS OF DOCUMENTS UNDER SEAL	
16		Judge: Hon. Lucy H. Koh	
17		Dept: Courtroom 8 – 4 th Floor	
18			
19	I, Stacey Kapadia, 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 Portions of Documents Under Seal (the "Motion to Seal"). I have personal		
24	knowledge of the facts set forth in this Declaration, and if called to testify, I could and would		
25	testify competently thereto.		
26	2. The Motion to Seal seeks to seal portions of documents including, among others		
27	Google's Opposition to Plaintiffs' Motion for	Class Certification ("Google's Opposition"), the	
28	Declaration of Stacey Kapadia in Support of C	Google's Opposition (the "Kapadia Declaration")	

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and Exhibit A to the Declaration of Maco Stewart in Support of Google's Opposition ("Stewart Exhibit A"). This is information that Google designated as "CONFIDENTIAL" or "CONFIDENTIAL – ATTORNEYS' EYES ONLY" under the terms of the stipulated protective order ("Protective Order"), entered on June 17, 2013 in this matter, 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.

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3. The documents Google incorporates into its Opposition 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 explanations as to why this information is Sealable Information, and how disclosure of the Sealable Information in these documents would harm Google and its users.

GOOGLE'S CONFIDENTIAL EMAIL SCANNING PROCESSES

- 4. 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. However, the mechanics of how Google performs those processes are sensitive, both for user security reasons and for competitive reasons.
- 5. The redacted information in Google's Opposition, the Kapadia Declaration, and Stewart Exhibit A describes 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, all of which 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

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¹ I understand that another Google employee, Han Lee, will provide a separate declaration addressing other sealable material filed in support of Google's Opposition, including the Stewart Declaration and Stewart Exhibit B.

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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.

- 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. 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.
- 7. Gmail's speed is also a valuable feature for users, and that 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, 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

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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. 8. Another objective achieved by Google's proprietary system design is to permit

Gmail system for processing incoming email. Changes to the sequencing and organization of the

- 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 particular 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.
- 9. The Gmail system is also designed for efficient data storage. Gmail has hundreds of millions of users, many 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 confidential Google processes related to when and how certain information related to emails is retained.
- 10. As noted, Google has developed its systems at substantial cost and through substantial efforts spanning multiple years. And indeed, Google continues to work on developing 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

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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 REDACTION EXPLANATIONS

11. This declaration supports Google's request to seal very limited portions of three documents: the Opposition, the Kapadia Declaration, and Stewart Exhibit A. Versions of these documents with these limited redactions are attached to this declaration as Exhibits A, B, and C, respectively (each a "Kapadia Exhibit").² The following table addresses each Kapadia Exhibit and explains in detail the reasons why the redacted language is Sealable Information:

	15	
Document and	Description of Sealable	Potential Harm from Disclosure
Portion to be Sealed	Information	
Kapadia Exhibit A	When read in the context of	Public disclosure of this confidential
• Page 18, lines 21-	the surrounding unredacted	business information could cause harm
23	information, this redacted	to Google's users by allowing
	information discloses when	spammers to identify and respond to
Kapadia Exhibit B	Google implemented	changes in Google's systems made to
• ¶¶ 7, 13	structural changes to its	combat spam messages. Disclosure
	email infrastructure. On	could also cause Google competitive
	these dates, Google	harm, as competitors could use this
	reorganized the delivery flow	information to assess how an upgrade to
	sequence in order to improve	Google's systems affected the features
	spam classification and other	it was able to provide its users, and
	user services.	make corresponding adjustments to
		their own systems without incurring
		similar development costs.
Kapadia Exhibit B	These passages describe how	Disclosure of this detailed, proprietary
• ¶¶ 5, 6, 12	emails flow through the	information revealing the sequence in
	Gmail system, including	which Google implements its Gmail
	specific details about the	processes could harm Google by giving
	sequencing process that	third parties a roadmap to how these
	Gmail designed through	emails are routed through the Gmail
	years of engineering work	system for processing and delivery. A
	and experimentation to	competitor could use this information to
	maximize speed and	develop competing products featuring a
	efficiency.	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
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² For the Court's convenience, and to file the Stewart Declaration and its exhibits together, the Stewart Declaration and Stewart Exhibits A and B are filed as Kapadia Exhibit C.

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1 2			bypass Google's virus detection and spam filtering functions to reach the inboxes of Gmail users.
3	Kapadia Exhibit A • Page 2, lines 26-28 • Page 3, line 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 confidential information revealing how
4	Kapadia Exhibit B	their relationship to one another. These systems have	Google constructs its Gmail infrastructure to optimize its systems'
5	• ¶¶ 14, 15, 16, 17, 23, 24, 25	been placed in relation to one another in a way that Google	effectiveness would cause Google harm by permitting competitors to emulate
6 7		developed to make its Gmail system as efficient as possible.	Google's innovations.
8	Kapadia Exhibit A • Page 2, lines 26-28	These passages reveal which servers and sub-processes	Disclosure of this confidential information would alert competitors to
9	• Page 3, line 24	play a role in the overall Gmail delivery process.	the types of processes that Gmail performs during the email delivery
10			process, depriving Google of a competitive advantage it has gained through its innovative structuring of the
11	Kapadia Exhibit A	This is a description	email delivery process. Disclosure of this confidential
12	Page 3, line 6	This is a description indicating that Google has dedicated a specific server or	information would enable competitors to copy Google's innovation without
13	Kapadia Exhibit B ¶ 36	piece of infrastructure to a particular task. This is an	incurring the costs of developing their own processes, thus depriving Google
14		innovation Google developed to make a specific aspect of	of a competitive advantage.
15		the Gmail system more efficient.	
16 17	Kapadia Exhibit A • Page 6, lines 24-28	These passages describe where in the Gmail	The location and interaction of scanning systems would give third parties insight into how Coople is able to aviolate and
18	Page 7, line 1Page 18, lines 21- 23	infrastructure specific scanning processes take place. These processes have	into how Google is able to quickly and efficiently process and deliver messages to its users; as a result, disclosure of this
19	• Page 19, lines 2-6, 9, 11-28	been deliberately placed in these locations to maximize	confidential information would harm Google by giving competitors an unfair
20	• Page 20, lines 1-2, 24	the speed and efficiency of the Gmail system.	opportunity to copy Google's system and deprive Google of a competitive
21	• Page 21, lines 3, 5		advantage.
22	Kapadia Exhibit B ¶ 8, 9, 10, 18, 19, 21, 22, 27, 28, 29,		
23	30, 31, 32, 34		
24	Kapadia Exhibit C, Stewart Exhibit A		
25	• Page 11, lines 17- 21, 23-24		
26	• Page 12, lines 1-2, 4-6, 8-9, 11-12		
27 28	• Page 16, lines 8-9, 13-14, 18-19		

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 Page 27, lines 17-18 Page 28, lines 2-5, 8-10 Page 39, lines 14-21 		
Kapadia Exhibit B • ¶¶ 11, 20, 26, 35	These passages describe 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.	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.

12. 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 system. 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 November 21, 2013, in Mountain View, California.

/s/ Stacey Kapadia Stacey Kapadia

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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	filing of this document has been obtained from	filing of this document has been obtained from its signatory.	
4	4		
5	5 Dated: November 21, 2013	COOLEY LLP	
6	6	MICHAEL G. RHODES (116127) WHITTY SOMVICHIAN (194463) KYLE C. WONG (224021)	
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9	9	/s/ Whitty Somvichian Whitty Somvichian (194463)	
10	0	Attorneys for Defendant GOOGLE INC.	
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