EXHIBIT 5

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Page 1 1 UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE PATENT TRIAL AND APPEAL BOARD 2 3 GOOGLE INC.,) 4 Petitioner,) 5 Patent No.) vs. 8,904,464) б NETWORK-1 TECHNOLOGIES, INC.,) 7 Patent Owner.) 8 9 10 DEPOSITION OF PIERRE MOULIN, Ph.D. 11 Champaign, Illinois 12 Monday, December 7, 2015 13 14 15 16 17 18 19 20 21 22 23 Reported by: 24 RACHEL F. GARD, CSR, RPR, CLR, CRR 25 JOB NO. 100828

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	Page 2		Page 3
1		1	A P P E A R A N C E S:
2		2	FINNEGAN HENDERSON FARABOW GARRETT &
3		3	DUNNER
4	December 7, 2015	4	Attorneys for Petitioner
5	9:14 a.m.	5	901 New York Avenue, N.W.
6		6	Washington, D.C. 20001
7	Deposition of PIERRE MOULIN, Ph.D., at the	7	BY: JOSHUA GOLDBERG, ESQ.
8	I Hotel and Conference Center, 1900 South First	8	CHRISTOPHER JOHNS, ESQ.
9	Street, Champaign, Illinois, pursuant to notice	9	
10	before Rachel F. Gard, Illinois Certified	10	
11	Shorthand Reporter, Registered Professional	11	
12	Reporter, Certified LiveNote Reporter,	12	
13	Certified Realtime Reporter.	13	DOVEL & LUNER
14		14	Attorneys for Patent Owner
15		15	201 Santa Monica Boulevard
16		16	Santa Monica, California 90401
17		17	BY: GREGORY SCOTT DOVEL, ESQ.
18		18	(Via videoconference)
19		19	
20		20	
21		21	
22		22	
23		23	
24		24	ALSO PRESENT: RICH SONNENTAG, Google
25		25	
	Page 4		Page 5
1	INDEX	1	(Witness sworn.)
2	WITNESS PAGE	2	WHEREUPON:
3	Cross Examination by Mr. Doyal 5	3	PIERRE MOULIN, Ph.D.,
5	Redirect Examination by Mr. Goldberg 102	4	called as a witness herein, having been first
6	Redirect Examination by Mit. Goldberg 102	5	duly sworn, was examined and testified as
7	EXHIBITS	6	follows:
8	EXHIBIT PAGE		CRUSS-EXAMINATION
9	Exhibit 1001 Patent Number '464 5	8	BY MR. DOVEL:
10		9	Q. Dr. Moulin, good to see you again.
	Exhibit 1003 Declaration 5		A. LIKEWISE. (Exhibit Number 1001 marked for
⊥⊥ 1 つ		<u>†</u>	identification)
<u>ل</u> ے	Hybibit 1006 Harris rataranaa		
13	Exhibit 1006 Ferris reference 5	12 13	O I'm going to place a number of
13	Exhibit 1006 Ferris reference 5 Exhibit 1007 Lambert reference 85	12 13 14	Q. I'm going to place a number of exhibits in front of you. I'm going to have
13 14	Exhibit 1006Ferris reference5Exhibit 1007Lambert reference85	12 13 14 15	Q. I'm going to place a number of exhibits in front of you. I'm going to have marked as Exhibit 1001 Patent Number '464
13 14 15	Exhibit 1006Ferris reference5Exhibit 1007Lambert reference85Exhibit 1008Gionis reference98	12 13 14 15 16	Q. I'm going to place a number of exhibits in front of you. I'm going to have marked as Exhibit 1001, Patent Number '464. I'll have that placed in front of you
13 14 15 16	Exhibit 1006Ferris reference5Exhibit 1007Lambert reference85Exhibit 1008Gionis reference98	12 13 14 15 16 17	Q. I'm going to place a number of exhibits in front of you. I'm going to have marked as Exhibit 1001, Patent Number '464. I'll have that placed in front of you. A. Thank you.
13 14 15 16 17	Exhibit 1006Ferris reference5Exhibit 1007Lambert reference85Exhibit 1008Gionis reference98	12 13 14 15 16 17 18	Q. I'm going to place a number of exhibits in front of you. I'm going to have marked as Exhibit 1001, Patent Number '464. I'll have that placed in front of you. A. Thank you. (Exhibit Number 1003 marked for
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2 (Pages 2 to 5)

	Page 6		Page 7
1	O. And I'll have marked as	1	O. I'd like you to turn to column 6.
2	Exhibit 1006, a copy of the Ferris reference.	2	In column 6, starting at Line 10, there's a
3	Dr Moulin I'd like to have you	3	sentence that reads: Each item or record 112
4	turn in your declaration which is	4	may associate a feature vector of a work 114
5	Exhibit 1003 to Page 20 Actually let's	5	with a preferably unique work identifier 116
6	start with Page 16 Paragraph 37 Dr Moulin	6	Do you see that?
7	in this paragraph you describe a portion of	7	A Yes
8	what's happening in the '464 patent' is that	8	O What is your understanding of what
9	correct?	9	is meant by work identifier 116?
10	A Yes	10	A So it is something that identifies
11	\mathbf{O} And you refer to a unique identifier	11	the work
12	is entered into a work identification. WID.	12	O. I'd like you to look at Figure 9 in
13	database.	13	the patent.
14	Do you see that?	14	A. Yes.
15	A. Yes.	15	O. Do you see where at the top of
16	O. And above that you quote a portion	16	Figure 9, it has a table, one of the rows of
17	of the '464 patent. It says: The signals may	17	which is work identifier?
18	be processed to extract a representative	18	A. Yes.
19	feature vector, and this feature vector is	19	Q. And then there's some examples of
20	assigned a unique identifier.	20	work identifiers. Do you see those?
21	Do you see that?	21	A. Yes.
22	A. Yes.	22	Q. In the '464 patent, is the work
23	Q. Okay. I'd like you to turn to the	23	identifier a character or group of characters
24	'464 patent, which is Exhibit 1001.	24	that are used to identify or name an item?
25	A. Yes.	25	A. It does not have to.
	Page 8		Page 9
1	Page 8 Q. Doesn't have to what?	1	Page 9 Q. When the '464 patent refers to an
1 2	Page 8 Q. Doesn't have to what? A. It does not have to be characters or	1	Page 9 Q. When the '464 patent refers to an electronic media work identifier, does the word
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3 (Pages 6 to 9)

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	Page 10		Page 11
1	\mathbf{O} Well my question is this: Does the	1	identifier
2	IFFE Standard Dictionary of Electrical and	2	So if you look at the ACM community
3	Electronic Terms capture the ordinary meaning	3	which is the main community for computer
4	of terms in the field?	4	science people, they may have their own
5	A You would have to give me the	5	definition of identifier. I'm not going to say
6	definition I do not know it	6	that one definition is better than the other
7	O Do you have any reason to think	7	one
8	the Well withdrawn	8	O. Does the Is the term identifier
9	In general is it your understanding	9	as its used by electro-electronic engineers
10	that the IEEE Standard Dictionary of Electrical	10	differ in any way from how it's used in the
11	and Electronic Terms captures the ordinary	11	field of computer science?
12	meaning of terms in the field?	12	A. I need to know what the definition
13	A. Not necessarily.	13	is. There are glossaries and so on. I would
14	O. In what instance would the	14	need to know what the definition is.
15	Withdrawn.	15	O. In computer science, what does
16	Can you give me an example of when	16	identifier mean?
17	the IEEE Standard Dictionary of Electrical and	17	A. Again, it is something that
18	Electronic Terms would not set forth the	18	identifies something.
19	ordinary meaning of a term?	19	Q. Now, if we When you say it's
20	A. Well, IEEE is the international	20	something that identifies something, does the
21	organization of electrical and electronics	21	something have to be a symbol, character, group
22	engineers. So it is geared towards electronics	22	of characters?
23	and electrical engineers, not to say computer	23	MR. GOLDBERG: Objection to form.
24	science people. Computer science people may	24	A. Which something? There are two
25	have their own definition of the name	25	somethings in my sentence.
	Page 12	2	Page 13
1	Page 12 O Veah when it's something that	2	Page 13
1	Page 12 Q. Yeah, when it's something that identifies something the first something the	2 1 2	Page 13 A. In my example, yes.
1 2 3	Page 12 Q. Yeah, when it's something that identifies something, the first something, the thing that's doing the identifying the	2 1 2 3	Page 13 A. In my example, yes. Q. Let's assume we have an identifier that's recorded in a computer system
1 2 3 4	Page 12 Q. Yeah, when it's something that identifies something, the first something, the thing that's doing the identifying, the identifier	2 1 2 2 3 4	Page 13 A. In my example, yes. Q. Let's assume we have an identifier that's recorded in a computer system. Withdraw
1 2 3 4 5	Page 12 Q. Yeah, when it's something that identifies something, the first something, the thing that's doing the identifying, the identifier A Yes	2 1 2 3 4 5	Page 13 A. In my example, yes. Q. Let's assume we have an identifier that's recorded in a computer system. Withdraw. Is it your understanding that the
1 2 3 4 5 6	Page 12 Q. Yeah, when it's something that identifies something, the first something, the thing that's doing the identifying, the identifier A. Yes. Q to be an identifier, it's going	2 1 2 3 4 5 6	Page 13 A. In my example, yes. Q. Let's assume we have an identifier that's recorded in a computer system. Withdraw. Is it your understanding that the electronic media work identifier that's used in
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