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20	NORTHERN DISTRICT	OF CALIFORNIA
21	SAN FRANCISC	O DIVISION
22	ORACLE AMERICA, INC.	Case No. CV 10-03561 WHA
23	Plaintiff,	ORACLE AMERICA, INC.'S RULE 50(A) MOTION AT THE
24	v.	CLOSE OF ALL EVIDENCE FOR PHASE II (PATENT PHASE)
25	GOOGLE INC.	
26	Defendant.	Dept.: Courtroom 8, 19th Floor Judge: Honorable William H. Alsup
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28		
	ORACLE AMERICA, INC.'S RULE 50(A) MOTION FOR PHASE II (CASE NO. CV 10-03561 WHA pa-1528682	PATENT PHASE)

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I.

INTRODUCTION

Google infringes Claims 11, 27, 29, 39, 40, and 41 of United States Patent No. RE38,104 2 ("the '104 patent") and Claims 1 and 20 of United States Patent No. 6,061,520 ("the '520 3 4 patent"). Google infringes the '104 patent in two ways: the Resolve.c resolution functions that are part of the Dalvik Virtual Machine infringe Claims 11, 39, 40, and 41 and the dexopt tool that 5 is also part of the Dalvik VM infringes Claims 27 and 29. Google infringes the '520 through the 6 operation of the dx tool, which is part of the Android SDK used by developers. Given the 7 evidence in the record, Google's patent infringement can be determined as a matter of law, as no 8 reasonable jury could find for Google.¹ 9

Google's indirect infringement can be determined as a matter of law along with direct
infringement. The parties stipulated that indirect infringement (induced and contributory
infringement) shall follow from a finding of direct infringement and need not be submitted to the
jury. ECF No. 1139. In finding direct infringement as a matter of law, the Court by extension
should also find indirect infringement by Google.

Google failed to meet its burden of proving its equitable defenses and either failed to
preserve or present evidence on other affirmative defenses.

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II. LEGAL STANDARD FOR JUDGMENT AS A MATTER OF LAW

For these reasons, Oracle is entitled to judgment as a matter of law.

19Judgment as a matter of law is appropriate when "a party has been fully heard on an issue20during a jury trial and the court finds that a reasonable jury would not have a legally sufficient21evidentiary basis to find for the party on that issue." Fed. R. Civ. P. 50(a)(1). In the Ninth22Circuit, "[t]he test is whether 'the evidence, construed in the light most favorable to the23nonmoving party, permits only one reasonable conclusion, and that conclusion is contrary to that24of the jury." White v. Ford Motor Co., 312 F.3d 998, 1010 (9th Cir. 2002) (quoting Forrett v.25Richardson, 112 F.3d 416, 419 (9th Cir. 1997)). The Federal Circuit applies the law of the

 ¹ Depending on the type of claim, Google directly infringes by installing code on devices, running the devices, or developing applications. Because these elements of the claims were not disputed, Oracle does not address this aspect of direct infringement.

1	region	al circuit when reviewing a district court's grant of judgment as a matter of law in patent
2	action	s. Geo M. Martin Co. v. Alliance Mach. Sys. Int'l LLC, 618 F.3d 1294, 1300 (Fed. Cir.
3	2010)	(citing White).
1	III.	NO REASONABLE JURY COULD FIND THAT GOOGLE DID NOT INFRINGE THE ASSERTED CLAIMS OF THE '104 PATENT
-		The record evidence proves as a matter of law that (1) Android's Resolve.c infringes
,	claims	11, 39, 40, and 41 of the '104 patent and that (2) Android dexopt infringes claims 27 and
	29 of 1	the '104 patent. No reasonable jury could find otherwise.
)		A. Android's Resolve.c infringes claims 11, 39, 40, and 41 of the '104 patent because Dalvik bytecode instructions contain symbolic references
		The only dispute with respect to infringement by Android's Resolve.c is whether Dalvik
	byteco	ode instructions contain "symbolic references." RT 4106:21-22 (Jacobs); 4154:6-11 (Van
	Nest).	Android source code and documentation, as well as the experts' and Google engineers'
	testim	ony, confirm that Dalvik bytecode instructions indeed contain symbolic references: the
	field in	ndices and other indices that are operands in Dalvik instructions. For resolve.c, the
	questi	on of "dynamic" in the Court's construction was not presented, as resolve.c indisputably
	resolv	es references dynamically. Whether or not the references are <i>also</i> pointers to table entries,
	as Goo	ogle argues, is legally irrelevant.
		1. A field index is a symbolic reference that is contained in a Dalvik bytecode instruction
		A field index in a Dalvik bytecode instruction meets the Court's definition of "symbolic
	referen	nce." The Court construed the term "symbolic reference" as "a reference that identifies data
,	by a n	ame other than the numeric memory location of the data, and that is resolved dynamically
;	rather	than statically." ECF No. 137 at 22.
ł		A field index—also called field@CCCC generally or "01" in specific examples of field
5	indice	s in the trial testimony—is a reference to data to be obtained in accordance with a
5	corres	ponding numerical reference, and identifies that data by a name other than the numeric
7	memo	ry location of the data. RT 3228:14-3229:25 (McFadden); RT 3303:2-3304:20 (Mitchell).
3	In ord	er to obtain data from the data object containing the value of the field, the Dalvik VM uses
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1	the resolver functions of Resolve.c to resolve the field index to a numeric memory location that is
2	then used to obtain the value. RT 3646:24-3647:25 (McFadden); RT 3308:18-3309:24
3	(Mitchell). The Dalvik VM resolves type indices, ² method indices, and string indices in much the
4	same way as field indices, and they are symbolic references for the same reason. See RT
5	3239:17-21 (McFadden); 3310:4-3311:1 (Mitchell).
6	The Dalvik bytecode instruction that was the focus of both parties' evidence and argument
7	is the IGET instruction, which corresponds to the "LOAD 'y'" instruction in the '104 patent. RT
8	3297:10-3302:2 (Mitchell); RT 3956:2-3961:6 (August). The IGET instruction (together with the
9	IPUT instruction) "performs the identified object instance field operation with the <i>identified field</i> ,
10	loading or storing into the value register." TX 735 at 6, emphasis added. The IGET instruction
11	contains three operands—vA, vB, and field@CCCC—where the third operand field@CCCC is
12	the field index. TX 735 at 6; RT 3221:8-10 (McFadden). The field index in the IGET instruction
13	identifies the field—that is, it specifies the field from which the data is to be obtained by IGET.
14	Google's Mr. McFadden testified:
15	Q. Can you explain what the iget instruction is?
16	A. That is the instance field get instruction. What that means is there is an object
17	fields. So what this instruction does is it finds the instance of the object and retrieves the data from the specified field.
10	DT 2221.2.7 (MaEaddan), and also DT 2069.10, 15 (August). Dr. Mitchell confirmed that the
19	RT 3221:2-7 (MCFadden), see also RT 3968:10-13 (August). Dr. Mitchen commined that the
20	resolve instance field function call takes the field index as an argument and returns the resolved
21	field, which is stored and then used by Dalvik to obtain the actual field data. RT 3311:23-
22	3312:19 (Mitchell); 3318:4-3319:13 (Mitchell).
23	For the field index in the IGET instruction to be a symbolic reference, it is enough that it
24	identifies—"specifies," in Mr. McFadden's words—some data to be obtained, by something other
25	than the data's location. This satisfies the Court's construction of "symbolic reference."
26	
27	
28	² A class index is a kind of type index. TX 736 at 2.
	ORACLE AMERICA, INC.'S RULE 50(A) MOTION FOR PHASE II (PATENT PHASE) CASE NO. CV 10-03561 WHA pa-1528682

1 Android engineers McFadden and Bornstein testified that the field index contained in the 2 instructions is not the numeric memory location of the value of the field. RT 3614:22-3615:16 3 (Bornstein); 3761:19-3762:6 (McFadden). In fact, "the Dalvik IGET instruction *never* contains 4 the numerical memory location of the actual field data that it is supposed to get." Id. 3761:14-18 5 (McFadden) (emphasis added). Dr. August also testified that the field index was not the 6 numerical memory location of the actual field data in an object. RT 3970:20-3971:3 (August). 7 Dr. Mitchell confirmed that the field indices and other indices, which are contained in the Dalvik 8 bytecode instructions, "are names that are used when there is data as the program runs to find the 9 location of data, but they, themselves, are not the location of the program data in any sense." RT 10 3533:21-25 (Mitchell). This testimony proved that the field index in the IGET instruction is a 11 symbolic reference to the field, because the field index is not and cannot be the numeric memory 12 location of the value of the field.

That indexes such as the "01" in "52 01" (the bytecode for IGET field@0001) may *also*indicate the location of information in the dex file's constant pool is *not relevant*. The claims do
not require that a reference *exclusively* identify data symbolically to qualify as a symbolic
reference. Moreover, there is no requirement in the '104 patent or the Court's claim construction
that the reference to data in a symbolic reference be direct. Indeed, by definition, a symbolic
reference is not the numeric memory location of the data it refers to, so it is necessarily indirect.

19 Because the indexes in question *at least* identify data by names other than numeric 20 memory locations, they qualify as symbolic references. This reasoning is confirmed by the 21 Court's construction of the terms "resolve" and "resolving" to mean "at least determing the 22 numerical memory-location reference that corresponds to the symbolic reference." (emphasis 23 added). The process of resolution may also include intermediate steps that refer to the constant 24 pool, but so long as the symbolic reference "at least" used to determine the corresponding 25 numerical memory-location, the Court's construction of both "symbolic reference" and "resolve" 26 is met. This provides an independent basis on which JMOL of infringement should be granted.

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1	2. The data that is obtained is the "data" that determines whether a reference is symbolic or numeric, not the constant pool information
2	An additional basis on which IMOL of infringement should be granted is that the "data"
3	in the Court's construction of symbolic reference ("a reference that identifies data by a name
4	in the court's construction of symbolic reference (a reference that identifies data by a name
5	other than the numeric memory location of the data") is the actual field data "obtained" by
6	Dalvik—the value of a field in an "instance object"—rather than the constant pool information in
7	the Android dex file that is the focus of Google's arguments.
8	That data from an instance object is the "data" that the claimed symbolic reference refers
9	to follows from the claim language of the'104 patent. For this issue, Claim 11 is representative:
10	11. An apparatus comprising:
11	a memory containing intermediate form object code constituted by a set of
12	references; and
13	a processor configured to execute said instructions containing one or more
14	symbolic references by determining a numerical references, and obtaining data in
15	accordance to said numerical references.
16	TX 4015, 7:5-14. Applying the Court's construction of "symbolic reference," the instructions
17	contain references to data that identify the data by a name other than the numeric memory
18	location of the data; the references are resolved to numeric memory locations, which are then
19	stored and used to "obtain" the data.
20	FIG. 1B of the '104 patent (below) shows that a symbolic reference refers to the data that
21	is "obtained." The figure illustrates the execution of the instruction "LOAD 'y." In this
22	instruction, the symbolic reference "y" refers to the data in the data object. RT 3298:20-21
23	(Mitchell). "[A]n <i>instruction that accesses or fetches y</i> , such as the Load instruction 14'
24	illustrated in FIG. 1, references the variable y by the symbolic name 'y'." TX 4015, 1:37-39.
25	The symbolic reference is to the data obtained, not some other information. The experts agree
26	that the purpose of the LOAD instruction described in the patent is to obtain the value from the
27	data object. RT 3298:20-24 (Mitchell), 3960:25-3961:6 (August).
28	



1 2	3. Conversion of instruction stream indices to numeric memory locations confirms that the indices are symbolic reference—numeric references are not resolved
3	The fact that the field indices are resolved to numeric references further confirms that they
4	are symbolic references. If they were numeric references and not symbolic references, there
5	would be no need to convert them to numeric references. But because Dalvik does convert field
6	indices (and other instruction stream indices) to pointers (numerical references), no reasonable
7	jury could conclude that the indices are not symbolic references.
8	Google's Mr. McFadden testified:
9	Q. The Dalvik VM stores pointers that result from resolving the indexes?
10	A. Yes.
11	Q. And the Dalvik VM then pulls them out of storage on subsequent Dalvik
12	bytecode executions?
13	A. Yes.
14	RT 3236:6-11 (McFadden). Mr. McFadden's source code comments explain that the Dalvik
15	resolving functions convert an index contained in the instruction stream into a pointer:
16	When a class, method, field, or string constant is referred to from Dalvik bytecode,
17	an array of type_id_item, method_id_item, field_id_item, or string_id_item in the
18	strings that the resolver uses to convert the instruction stream index into a
19	pointer to the appropriate object or struct.
20	TX 46.14 at 1 (emphases added). Mr. McFadden confirmed that this was an accurate description
21	of Dalvik. RT 3236:12-19 (McFadden). He also testified that if the instruction stream index
22	were the numeric memory location, it would already be a pointer and there would be no reason to
23	convert it to a pointer. RT 3234:22-3235:13 (McFadden).
24	That Dalvik resolves a field index to a numeric memory location means that a reasonable
25	jury could come to only one conclusion: a field index is a symbolic reference. Under Google's
26	view, Dalvik resolves a numeric reference into a numeric reference. As its own witnesses
27	testified, there would be no reason to do that. (Id.) The Court should grant judgment of
28	infringement as a matter of law in Oracle's favor.
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B. Android dexopt infringes claims 27 and 29 of the '104 patent
 Oracle is also entitled to judgment as a matter of law on infringement of '104 patent
 claims 27 and 29 by dexopt. Google's engineers testified that dexopt resolves symbolic

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references into numerical references. *See, e.g.*, RT 3769:8-12 (McFadden). There were only two
disputed issues regarding infringement: whether Dalvik dexopt bytecode instructions contain
symbolic references and whether dexopt resolves symbolic references dynamically rather than
statically. *See, e.g.*, RT 3841:2-19 (August). The first issue is the same as that with respect to
Android's Resolve.c and should be resolved in Oracle's favor as discussed above. With respect
to the second issue, the evidence at trial showed that dexopt resolves symbolic references
dynamically rather than statically. No reasonable jury could find otherwise.

11The Android source code documentation and admissions by Google engineers establish12that dexopt resolves references dynamically. Mr. McFadden admitted that the resolution process13depends on the conditions actually existing on the handset; dexopt needs to rerun when those14conditions change by way of a system update. RT 3769:13-17 (McFadden). See id. at RT153255:20-25 (admitting need to run dexopt when performing system update because memory16layout could change). Dr. Mitchell agreed. RT 3330:24-3331:21 (discussing McFadden17testimony). That is sufficient under the ordinary meaning of "dynamic."

Dexopt is performed with a running Dalvik virtual machine. That dexopt runs at 18 19 "runtime" is another sufficient, although not necessary, basis on which to show dynamic reference resolution. Dexopt must process dex files while the Dalvik Virtual Machine is running 20 because it needs information only available at runtime. Android engineer Dan Bornstein admitted 21 that dexopt processes dex files while the Dalvik Virtual Machine is running. RT 3580:21-23 22 (Bornstein). Similarly, when asked whether "dexopt processes the dex files when the Dalvik 23 Virtual machine is running," Google expert David August responded, "Sometimes." RT 3988:14-24 3989:23 (August). 25

Google's internal documentation confirms that dexopt optimizations require information
 only available at runtime. TX 105, part of the Android documentation for dexopt, explains that
 dexopt is "really just a back door into the VM. It performs an abbreviated VM initialization,
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1	loads zero or more DEX files from the bootstrap class path, and then sets about verifying and
2	optimizing whatever it can from the target DEX." TX 105 at 2. It states, in reference to the
3	optimizations performed by the Dalvik optimizer, that "Some of these require information only
4	available at runtime, others can be inferred statically when certain assumptions are made." Id. at
5	3. As Dr. Mitchell explains, TX 105 shows "the sense in which [dexopt] is dynamic and it's part
6	of the runtime environment of the Android platform." RT 3321:22-3332:16, 3989:21-23.
7	Similarly, in TX 1094, HTC developer Kant Kang asks why dexopt has to execute during runtime
8	instead of compile time, noting that it causes "extra cpu usage." TX 1094. The response from
9	Android engineers is: "What you are seeing is normal behavior" and for an explanation as to
10	"why some of these optimizations can only be performed at runtime," they quote from TX 105.
11	Id. When showed this document, Google's paid fact witness, Dan Bornstein, tried to dispute the
12	obvious, claiming the Android engineer who responded to this customer query "must have just
13	been confused." RT 3580:24-3584:8.
14	Notwithstanding these admissions from its own engineers and documents, Google
15	maintains that dexopt is "static" because Google documents sometimes refer to the dexopt
16	symbolic reference resolution process as "static linking." But calling an apple a "banana" does
17	not change the fact that it is an apple. Likewise, calling a dynamic process "static," as in TX 816,
18	does not change the fact that it is dynamic.
19	The ordinary meaning of "dynamic" does not require "at runtime." Mr. McFadden
20	admitted that dexopt is dynamic if "dynamic" means "depending on conditions on the handset
21	which can change from time to time." See, e.g., RT 3769:23-3770:1 (McFadden). The Court
22	should grant JMOL in Oracle's favor.
23	C. Under the correct claim construction, dexopt resolves symbolic references
24	"dynamically rather than statically"
25	As set forth in Oracle's objection to Jury Instruction 11 (ECF 1128), the Court's
26	construction of "symbolic reference" should be adjusted to accurately reflect the meaning of the
27	terms "dynamic" and "static" as used in the '104 patent and the Court's May 9, 2011 Claim
28	
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1	Construction Order. Under the proper construction, Google's non-infringement argument based
2	on dynamic vs. static resolution disappears.
3	The '104 patent is unambiguous as to what "static" and "dynamic" mean in connection
4	with numeric and symbolic references. The patent uses the terms "static" and "dynamic" as
5	adjectives to characterize numeric and symbolic references, respectively: "[T]he main
6	interpretation routine determines if the data reference is static, i.e., numeric, or dynamic, i.e.,
7	symbolic " TX 4015, 5:11-13 (emphasis added). A numeric reference is "static" because it
8	does not change – it directly references the memory location of data. Id. at 5:24-31 (describing
9	"static field reference routine" used to handle numeric references). A symbolic reference is
10	"dynamic" because it changes – it must be resolved to identify the memory location of data. <i>Id</i> .
11	at 5:13-23 (describing "dynamic field reference routine" used to handle symbolic references).
12	The Court's Claim Construction Order explained this very clearly – numeric references
13	are "static" because they identify a memory location directly, while symbolic references are
14	"dynamic" because they require resolution to a memory location:
15	A numeric data reference was one that identified data directly by its memory-
16 17	location address. For example, the command "load the data stored in memory slot 2" contains a numeric reference to the data stored in slot 2 (col. 1:26–41). The claimed invention would use a <i>static subroutine</i> to interpret this numeric data reference — all it would have to do is go get whatever data is stored in slot 2
18	A <i>symbolic data reference</i> , on the other hand, did not identify data directly by its
19	memory-location address. Instead, a symbolic reference identified data by a "symbolic name" (col. 1:64–67). For example, the command "load the data called
20 21	y" contains a symbolic reference to the data called y. The claimed invention would use a <i>dynamic subroutine</i> to interpret this symbolic reference — it would have to figure out that "y" means "17" or that "y" means "the data stored in memory slot 2" and then get the data called y (col. 5:13–19)
22	ECF 137 at 20-21, emphasis added.
23	Despite the clarity of the patent and the Court's Claim Construction Order, the actual
24	claim construction of "symbolic reference" is ambiguous as to the meaning of "dynamic" and
25	"static." As submitted to the jury, "symbolic reference" is construed to mean "a reference that
26	identifies data by a name other than the numeric memory location of the data. <i>and that is resolved</i>
27	<i>dynamically rather than statically.</i> " ECF 1141 at 5. emphasis added. Oracle originally objected
28	
	ORACLE AMERICA, INC.'S RULE 50(A) MOTION FOR PHASE II (PATENT PHASE)

1	to the inclusion of the last phrase (in italics), noting that confusion might arise over the meaning
2	of "dynamic." ECF 132 at 2. The Court declined to remove that phrase, but explained:
3 4	Because this word ["dynamic"] comes directly from the '104 patent, its use therein will further inform the construction of 'symbolic reference.' The word 'dynamic' is not being imported from a vacuum.
5	ECF 137 at 22. The Court should now apply the correct meaning of "dynamic" to dispose of
6	Google's non-infringement arguments.
7	Google exploited the ambiguity in the construction of "symbolic reference" to argue that
8	"dynamic" refers to <i>the timing</i> of symbolic reference resolution, rather than the nature of the
9	symbolic references. In its closing argument and through its witnesses, Google sought to
10	establish that "dynamic" is sometimes understood in the industry to mean resolution "at runtime,"
11	while "static" may be understood to mean resolution at "install time." See RT 3762:23-3763:19
12	(McFadden). Irrespective of how those terms may otherwise be used, that is not how they are
13	used in the '104 patent. Instead, "dynamic" refers to the changeable nature of symbolic
14	references – they must be resolved to identify the memory location of the underlying data based
15	on memory conditions that exist at whatever time the resolution occurs. TX 4015 at 5:10-31;
16	ECF 137 at 20-21. This is the meaning of "dynamic" that must be applied to resolve Google's
17	non-infringement argument.
18	Applying the correct meaning of "dynamic," there is no question that Android's dexopt
19	dynamically resolves symbolic into numerical references. Google's Andy McFadden confirmed
20	that the index number contained in the IGET instruction is converted into a pointer, which he
21	admitted was a numerical reference. RT 3234:4-18 (McFadden). While Mr. McFadden and
22	Google deny that the index number is a symbolic reference (as previously addressed), there is no
23	dispute that dexopt replaces it with a numerical reference. RT 3739:13-3741:16 (McFadden).
24	That is the meaning of "dynamic" as used in the '104 patent. Mr. McFadden further
25	acknowledged that the resolution of index numbers into pointers is also "dynamic" in that it
26	depends on conditions existent on the handset at the time of resolution. RT 3769:8-3770:1
27	(McFadden). Under the correct interpretation of "dynamic," Google cannot dispute that dexopt
28	resolves references dynamically.
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IV.

NO REASONABLE JURY COULD FIND THAT GOOGLE DID NOT INFRINGE THE ASSERTED CLAIMS OF THE '520 PATENT

Oracle proved that Google's dx tool infringes Claims 1 and 20 of the '520 patent. Google concedes that all steps of Claims 1 and 20 are performed except the "simulating execution" step. But the indisputable evidence is that "simulating execution" *is* performed by the dx tool code; indeed, it is *expressly described* in the code comments. Google's defense rests solely on reading non-existent limitations into the claims. Absent that legal impropriety, no reasonable jury could find against Oracle.

Oracle's expert, Dr. Mitchell, testified that the dx tool simulates the execution of
bytecodes to determine the static initialization of arrays. The purpose of the method is to reduce
the number of bytecodes needed to initialize arrays. To that end, the dx tool examines the
bytecodes *without executing them* to determine the static initialization that they perform. The
comments in the dx tool code confirm this. TX 46.16 at line 37 ("Class which knows how to
simulate the effects of executing bytecode"). That is the very definition of "simulating
execution" recited in the patent claims.

Google's two counter-arguments rely on reading non-existent limitations into the claim
language: (1) The dx tool does not infringe because it does not manipulate a data stack in
determining static initialization of arrays; and (2) the dx tool does not infringe because it uses
pattern matching to determine static initialization. Neither is a defense. The asserted claims do
not require stack manipulation, so its absence from the dx tool is not exculpatory. And the
asserted claims do not exclude pattern matching, so even if that forms part of the dx tool process,
it still qualifies as "simulating execution" of bytecodes.

23

A. '520 Patent Background

The invention of the '520 patent addresses a problem with static array initialization by the Java virtual machine. TX 4011 ('520 patent), 1:57-2:58; RT 3334:16-3335:19 (Mitchell). Static arrays are lists of data items (such as numbers) that are used by Java programs. RT 3334:20-25 (Mitchell). For static arrays to work, they need to be initialized in the Java virtual machine. TX

1	4011, 1:57-2:52. Initialization occurs via a method (" <clinit>" or "class initialization") that uses</clinit>
2	a series of Java bytecodes to initialize the static array. Id.
3	As an example, the patent shows a static array written in Java source code. Id. at 1:65.
4	When this source code is compiled, the Java compiler produces a long list of Java bytecode
5	instructions to initialize the array. Id., 2:26-57; RT 3335:10-19 (Mitchell). This set of bytecode
6	instructions is larger than the array itself and takes up more memory space. Id.
7	To reduce the bytecodes needed for initialization, the invention simulates execution of the
8	bytecode instructions to determine the static initialization they perform. Id., 2:64-3:7. The long
9	list of instructions is then replaced with a shorter instruction indicating the static initialization of
10	the array. Id., 3:66-4:17. In this way, the invention saves memory space.
11	B. Android's dx Tool Simulates Execution Of Bytecodes To Identify The Static Initialization Of Arrays
12	Claims 1 and 20 of the '520 patent are infringed by Android's dx tool. As indicated in the
13	patent claim handouts, Google admits that all steps of Claims 1 and 20 are performed by the dx
14	tool except for the following steps:
15 16	From Claim 1
17	simulating execution of the byte codes of the clinit method against a memory without executing the byte codes to identify the static initialization of the array
18	From Claim 20
19	simulating execution of the code to identify the static initialization of the array.
20	TX 1106 at 7-8. Google's code demonstrates that the dx tool does, in fact, perform these
21	"simulating execution" steps.
22	1. Dr. Mitchell's Analysis
23	The dx tool is part of the Android SDK, a platform developers use to write and compile
24	Android applications. RT 3549:25-3550:2 (Bornstein), 3253:23-3254:2 (McFadden). The first
25	version of the dx tool was written at Google by former engineer Dan Bornstein. RT 3547:20-21
26	(Bornstein). Android applications written in the Java programming language are first compiled to
27	Java bytecode using a Java compiler. RT 3547:5-10 (Bornstein). The Android dx tool is then
28	
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used to transform the Java bytecode files into Android dex code files. RT 3547:14-19

2 (Bornstein).

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3 Because the dx tool processes Java bytecode compiled by a Java compiler, it faces the 4 same problem described in the '520 patent – namely, that files containing static arrays will have 5 long lists of bytecode instructions for array initialization. RT 3338:15-3339:1 (Mitchell). The dx 6 tool solves this problem using the patented technique; it simulates execution of the instructions 7 and replaces them with a single instruction to initiate the array. RT 3338:19-3339:1 (Mitchell). 8 A code file called "Simulator, java" within the dx tool simulates execution of the 9 initialization bytecodes to figure out what they do. TX 46.16 (Simulator.java); RT 3340:5-10 3341:16 (Mitchell). The engineer comments in the code clearly state that Simulator.java is a class 11 designed to "simulate the effects of executing bytecode":

36 /**
37 * Class which knows how to simulate the effects of executing bytecode.
38 *
39 * Note: This class is not thread-safe. If multiple threads
40 * need to use a single instance, they must synchronize access explicitly
41 * between themselves.
42 */
43 public class Simulator {
44 /**

17 TX 46.16 at lines 37-43, 86-105. The file calls upon the parseInstruction and parseNewarray 18 methods to assist with understanding the instructions. TX 46.16 at line 99; TX 46.17 at lines 211, 19 887; RT 3341:17-3344:7 (Mitchell). As a result of Simulator.java and the methods it invokes, the 20 bytecode instructions are examined without being executed, their static initialization is 21 determined, and a shorter "fast instruction" is generated to replace the long list of bytecode instructions. Id. This precisely matches the "simulating execution" step of the asserted claims. 22 23 To confirm the infringing functionality of the dx tool, Dr. Mitchell performed an 24 experiment. RT 3344:8-3346:1 (Mitchell). He created a file containing a static array of ten 25 elements and compiled the file to Java bytecode using a Java compiler. Id. The resulting 26 bytecode contained roughly 50 instructions to initialize the array. *Id.* He then ran the bytecode 27 through the dx tool. *Id.* The resulting dex file had a single, succinct instruction to initialize the 28 array, rather than the list of 50 instructions. Id. This confirmed that the dx tool, using ORACLE AMERICA, INC.'S RULE 50(A) MOTION FOR PHASE II (PATENT PHASE) 14 CASE NO. CV 10-03561 WHA pa-1528682

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Simulator.java, had simulated execution of the instructions, determined their static initialization, and replaced them with a shorter instruction, just as recited in the asserted claims. *Id*.

2. Dr. Parr Sought To Read Additional Limitations Into The Claim Language

5 Google's expert, Dr. Parr, conceded that the dx tool does "identify the static initialization 6 of the array" by examining the "byte codes of the clinit method against a memory" and "without 7 executing the byte codes." RT 3793:2-5, 3807:10-14, 3820:12-22, 3821:16-23, 3822:17-3823:13. 8 With those concessions, Dr. Parr acknowledged that the sole remaining issue was whether the dx 9 tool process for identifying static initializations could be characterized as "simulating execution." 10 On this issue, Dr. Parr offered two arguments, both dependent on importing additional 11 limitations into the asserted claims. First, Dr. Parr said that the dx tool cannot be simulating 12 execution of bytecodes because it does not manipulate a stack to determine static initializations of 13 arrays. RT 3794:15-3795:21, 3801:19-21. In support, he pointed to an exemplary embodiment in 14 the patent specification involving stack manipulation. *Id.* However, as Dr. Parr himself 15 conceded, the asserted claims make no mention of stack manipulation. TX 4011, 9:47-62, 12:3-7; 16 RT 3794:20-23. Nor has the term "simulating execution" been construed to require stack 17 manipulation. Indeed, dependent Claim 3 includes "stack manipulation" as an express limitation, 18 establishing that the limitation is not part of independent Claim 1. The absence of stack 19 manipulation in the dx tool is irrelevant to infringement, as the asserted claims do not require that 20 feature.

21 Second, Dr. Parr argued that the dx tool identifies static initializations through pattern 22 matching, which he contends is distinguishable from "simulating execution" of bytecodes. RT 23 3798:22-3799:3. While Dr. Parr admitted that the process of creating and initializing arrays 24 begins in the Simulator.java file, he argued that the identification of static initializations occurs in 25 another file and involves pattern matching. RT 3800:2-3801:18, 3830:12-19, 3834:8-16, 26 3834:25-3835:5. Again, this argument relies on limiting the meaning of "simulating execution," 27 this time to exclude any pattern matching. The term has not been construed that way. There is 28 nothing in the claim language to suggest that "simulating execution" cannot be achieved through ORACLE AMERICA, INC.'S RULE 50(A) MOTION FOR PHASE II (PATENT PHASE) 15 CASE NO. CV 10-03561 WHA pa-1528682

pattern matching. The meaning of "simulating execution" is apparent from the claim language 2 itself:

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simulating execution of the byte codes of the clinit method against a memory *without executing the byte codes* to identify the static initialization of the array

5 TX 4011, Claim 1 (emphasis added). In the context of the surrounding language, "simulating 6 execution" is performed on "byte codes of the clinit method," "without executing the byte codes," 7 "to identify the static initialization of the array." Dr. Parr has admitted that those elements are 8 performed by the dx tool. Whether or not this occurs through pattern matching, it is still 9 "simulating execution" – *i.e.*, identifying static initialization of bytecodes *without actually* 10 executing them.

11

V. **GOOGLE'S EOUITABLE DEFENSES FAIL**

12 Google's equitable defenses to Oracle's copyright infringement claim overlap with its 13 equitable defenses to Oracle's patent infringement claims. Oracle's proposed findings of fact and 14 conclusions of law submitted after Phase I reflect the state of the record at the end of that phase 15 and are hereby incorporated by reference. See ECF Nos. 1048 at 11-26, 30-35; ECF 1081 at 16-16 37, 55-70.

17 In addition, Oracle identifies below further evidence introduced in Phase II of the trial 18 relating to the equitable defenses, and highlights other evidence particularly relevant to those 19 defenses in the context of Oracle's patent claims. Google did not submit new evidence in Phase 20 II that is material to its equitable defenses. Under the law that applies to Google's equitable 21 defenses in the patent context, judgment should be entered in Oracle's favor.

22

A. **Additional Facts Relevant to Google's Equitable Defenses**

23 During Phase I, Oracle introduced extensive evidence of the negotiations between Oracle 24 and Google beginning in 2005 and of Google's internal recognition of the need to take a license 25 from Sun. See, e.g., ECF 1048 at ¶¶ 64-65, 85-86, 98-99. One of Google's primary goals in 26 these negotiations was to obtain a license to Sun's patents. See, e.g., TX 2714 at 1 (Feb. 6, 2006) 27 Rubin email) ("If you and I can define the open source license and include patent protection, then 28 Eric will be 100% supportive"); TX 22 at 8 (Apr. 24, 2006 presentation entitled "Android/Sun ORACLE AMERICA, INC.'S RULE 50(A) MOTION FOR PHASE II (PATENT PHASE) 16 CASE NO. CV 10-03561 WHA pa-1528682

final approval" and describing proposed license as "includes patent grants"); TX 618 §§ 1.17,

2 1.22, 1.32, 3.1(d) (draft licensing agreement including license to Sun patents).

3	The key Google participants in the negotiations were already familiar with Sun's patents.			
4	Andy Rubin had negotiated a license with Sun at his prior company, Danger, which included			
5	license rights to Sun patents. TX 1026 § 2.1(Sun-Danger license); TX 565 (Aug. 2, 2007 Gupta			
6	email) ("Andy cannot say he is not aware of the licensing requirements- as he had to go thru this			
7	at Danger- and we discussed this during Project Android Phase, and then during the Sun/Google			
8	collaboration attempt as well"). Mr. Rubin was specifically aware that Sun had patents relating t			
9	the virtual machine. After initially resisting on cross-examination, Mr. Rubin finally admitted			
10	that he "had discussions with Sun about patents relating to the virtual machine." RT 3204:6-			
11	3205:3 (Rubin). Mr. Rubin also authored several emails that showed he was aware of the need to			
12	take a license to Sun's patents. In March 2006, for example, Mr. Rubin wrote, "I don't see how			
13	you can open java without sun, since they own the brand and ip." TX 18 at 1. Mr. Rubin			
14	acknowledged at trial that by "IP" he meant "Patents, copyrights and the like." RT 1355:1-4			
15	(Rubin). Six months later, in November 2006, in response to Sun's announcement that it was			
16	open sourcing the Java platform, Mr. Rubin cautioned: "They still have patents and trademarks."			
17	TX 155 at 1. Mr. Rubin explained what he meant by this remark:			
18	Look, like I said before, I assume they're running a business, they're inventing			
19	intellectual property, they're protecting it through the patent system. Through GPL, I didn't know what they were, <i>but I knew that it was dangerous to use the stuff without knowing exactly what it was</i> .			
20				
21	TX 1128 at Rubin Dep. Tr. 16:4-16 (emphasis added).			
22	Tim Lindholm was another key Google representative in the negotiations. He assisted			
23	Rubin by "helping negotiate with my old team at Sun for a critical license." TX 17 at 1. Before			
24	joining Google, Mr. Lindholm worked at Sun, specifically with the Java Virtual Machine, and			
25	was a named inventor on more than 10 Sun patents, many or all of which relate to Java virtual			
26	machines. RT 2993:5-24. He was aware of the '104 patent in particular. Mr. Lindholm co-			
27	authored the book, The Java Virtual Machine Specification, with Frank Yellin. TX 25.			
28	Mr. Yellin also now works for Google. RT 2997:14-2998:15. Chapter 9 of that book states, "The			
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technique documented in this chapter is covered by U.S. Patent 5,367,685." TX 25 at 389. The
 '685 patent is the predecessor to the '104. *See* TX 4015 at 1. Google's argument that all claims
 of the '104 patent are broader than the claims of the '685 patent (ECF 311) means that the '104
 would cover the technology described in the chapter as well.

Despite his concern that it was "dangerous" to proceed without knowing what Sun's
intellectual property covered (TC 1128 at Rubin Dep. Tr. 16:4-16), Mr. Rubin never asked
Mr. Lindholm—or anyone else on his team—to review any Sun patents or investigate whether
Android technology might infringe one of Sun's patents. RT 3140:17-3141:1 (Rubin), 3027:113028:4 (Lindholm).

10 To counter this evidence, in its closing statement, Google trotted out the Jonathan 11 Schwartz November 2007 blog post yet again, claiming it showed Sun had no concerns about 12 Google's patent infringement. RT 4193:2-13 (Google closing). But Android's source code was 13 not publicly released until October 21, 2008-almost a full year later. RT 1719:10-18 (Rubin). 14 Google had not even finished developing the Android source code in November 2007, let alone 15 publicly released it. See RT 1507:20-1508:18 (Schmidt). Mr. Schmidt's alleged conversations 16 with Mr. Schwartz similarly took place in late 2007 and early 2008 (*id.* at 1537:3-18)—again, 17 well before Google's source code was released and Sun could have known of Google's 18 infringement.

19 When the source code was released, Sun was in discussions with Google over a license to 20 Java. See, e.g., TX 1058 (Oct. 7, 2008 Gupta email to Rubin) ("Many thanks for taking time to 21 kick the discussion off yesterday"). These discussions continued. On November 24, 2008, 22 Mr. Rubin wrote that Sun had asked him "to certify Android through the Java process and 23 become licensees of Java." TX 1002. In February 2009, Brett Slatkin proposed to Eric Schmidt 24 that Google buy the rights to Java and "solve all these lawsuits we're facing." TX 406 at 1. 25 Schmidt wrote back "Certainly a clever idea. I'll ask our team to pursue." TX 406 at 1. The 26 proposal was also forwarded to Tim Lindholm and Bob Lee, the lead Android core libraries 27 developer. TX 326.

1	There is a particularly revealing set of emails relating to a meeting that took place between			
2	the parties on April 29, 2009. In an email written immediately after the meeting, which was			
3	admitted in Phase II, Oracle's account manager for Java technology and source code licensing,			
4	Leo Cizek writes that he confronted Google's Martin Buccholz about the need for Google to take			
5	a license for Android:			
6	Vineet,			
7	Tom and I spoke with Martin Buccholz today. I delivered the message that they			
8	have only two options: OpenJDK or Commercial Use, which would require compatibility. I also explained that using Java in the context of customer-facing			
9	applications is considered by Sun to be commercial use. I also explained that if they choose the commercial use/compatibility option, it would have ramifications			
10	throughout Google, and I gave Android as an example.			
11	Martin replied: "The Android group did not use any Java code in developing Dalvik; they only used the Java specifications."			
12	Unfortunately I did not have a tape recorder running at the time!			
13	I replied that Sun's position is that the spec license agrmts require that any s/w created from them which is for commercial use be compatible.			
14	TX 531.			
15	Mr. Buccholz sent a parallel email internally at Google that same afternoon:			
16	As expected, this does not look promising. Leo says Sun has an inflexible			
17	Commercial version of the code does (and mostly Sun is thinking of support for binaries). Also, Sun would want any discussions with Google to involve other			
18	<i>inter-company issues, in particular Android</i> , which I'm sure we would want to keep separate. <i>Android seems to be a big deal at Sun.</i> Leo suggested that his boss,			
19	Vineet Gupta, CTO for OEM Software Systems Engineering, should have a chat with Tim Lindholm (Tim knows both of these guys) and I agreed that would be a			
20	good idea.			
21	TX 1029 (emphasis added).			
22	Tim Lindholm's initial response, after stating, "I guess this isn't surprising," was to agree			
23	to meet with Mr. Gupta. <i>Id.</i> But then he thought better of it:			
24	Actually, having said that I wonder whether this is too close to dangerous territory, and with too little chance of anything positive coming of it for us to be			
25	messing around? We really don't want to inadvertently stir anything up for Android, and Leo has said pretty clearly that they don't have anything for us as			
26	regards security patches. I suspect we should step away, and only respond further if Sun chases after us.			
27				
28				
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1 *Id.* (emphasis added). Mr. Bornstein responded ("No surprise that I think this is exactly what we 2 should do."). Id. 3 Google stepped away, but it could not hide for long. Oracle's acquisition of Sun closed 4 on January 27, 2010. ECF 525 at 8 Stipulated Fact No. 3. One of Mr. Ellison's first acts was to 5 meet personally with Mr. Schmidt about Android in March 2010 to persuade Google to become 6 compatible with Java. RT 312:18-20 (Ellison). Several meetings took place between the two 7 companies over the next few months, including a meeting between Mr. Ellison and Mr. Page, 8 meetings with Andy Rubin and his boss, Alan Eustace, and a meeting on July 20, 2010 where 9 Google admits the '104 and '520 patent were specifically discussed. RT 391:15-395:2 (Kurian), 10 2309:22-2314:12 (Catz). The lawsuit was filed on August 12, 2010. 11 **B**. Google Has Not Shown that Equitable Estoppel Bars Oracle's Patent **Infringement Claims** 12 13 To prevail on its estoppel defense, Google must prove that (1) Sun/Oracle, "through 14 misleading conduct, led" Google "to reasonably infer that" Sun/Oracle "did not intend to enforce 15 its patent against" Google; (2) Google "relied on this conduct;" and (3) "due to the reliance," 16 Google "will be materially prejudiced if" Oracle "is allowed to proceed on its claim." Gasser 17 Chair Co. v. Infanti Chair Mfg. Corp., 60 F.3d 770, 776 (Fed. Cir. 1995). 18 Google failed to prove any of these elements. The test for patent estoppel is similar to the 19 one for copyright estoppel, so Oracle refers the Court to its analysis on that subject. See 20 ECF 1049 at 29-31; ECF 1081 at 60-63. In particular, Google has no credible claim that it relied 21 on Sun/Oracle's conduct to its detriment or that its reliance was reasonable. The jury so advised 22 in its Phase I ruling. ECF 1089 \P 4.B. While this advisory verdict was specifically in the context 23 of the SSO of the copyrighted code, Google did not introduce any new material evidence in phase II that provides support for this claim, so the verdict applies equally here. 24 25 The evidence shows that negotiations between the parties over Java licensing continued 26 throughout the relevant time period and beyond. See, e.g., RT at 492:18-22 (Page) ("I'm not sure 27 they've ever broken off. Continue to have discussions to this day"); TX 531, 1002, 1029, 1058, 28 ECF 1049 ¶¶ 85, 99-100, 133. Overwhelming evidence at trial showed Google was aware that ORACLE AMERICA, INC.'S RULE 50(A) MOTION FOR PHASE II (PATENT PHASE) 20 CASE NO. CV 10-03561 WHA

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1	Sun had patents that covered the virtual machine technology and that it faced potential legal		
2	action by Sun in connection with Android. See, e.g., RT 3204:6-3205:3 (Rubin); RT 2993:4-24		
3	(Lindholm); TX 18, TX 25 at 389, TX 1029, ECF 1049 ¶¶ 62-65, 130, 132, ECF 1081 ¶ 66.		
4	Google's argument is one made up by the lawyers in hindsight. In all of its discussions with Sun		
5	and Oracle, Google never claimed that it had been led by Sun to believe that it didn't need a		
6	license or had relied on any such belief. ECF 134, RT at 2316:1-9 (Catz). Google decided on its		
7	Android development path and implemented the infringing technology regardless of any Sun or		
8	Oracle statements, actions, or inactions, and Google has never proven otherwise. TX 1029, ECF		
9	1049 ¶¶ 62-65, 96, 98, 114, 117. Google knew the risks of operating without a license but		
10	decided to proceed anyway.		
11	C. Google Has Not Shown that the Doctrine of Laches Applies to Oracle's Patent		
12	Infringement Claims		
13	Google has not produced evidence to raise a colorable laches defense. In patent, as in		
14	copyright, laches requires proof of the following elements: (1) "the plaintiff delayed filing suit		
15	for an unreasonable and inexcusable length of time from the time the plaintiff knew or reasonably		
16	should have known of its claim against the defendant," and (2) "the delay operated to prejudice or		
17	injury of the defendant." A.C. Aukerman Co. v. R.L. Chaides Const. Co., 960 F.2d 1020, 1032		
18	(Fed. Cir. 1992) (en banc). "A district court must weigh all pertinent facts and equities in making		
19	a decision on the laches defense." Id. at 1034 ("the length of delay, the seriousness of prejudice,		
20	the reasonableness of excuses, and the defendant's conduct or culpability must be weighed").		
21	Here, Oracle filed suit on August 12, 2010, less than two years from the first time that		
22	Google made the code in Android available to the public, on October 21, 2008. RT 1719:10-18		
23	(Rubin). Because Oracle brought suit within less than six years of learning of the infringement,		
24	there is no presumption of laches, and "the burden is upon the defendant to show that the delay		
25	was unexcused and that the defendant suffered injury as a result of the delay." Carpet Seaming		
26	Tape Licensing Corp. v. Best Seam, Inc., 694 F.2d 570, 580 (9th Cir. 1982); A.C. Aukerman,		
27	960 F.2d at 1038.		
$\gamma_{\mathbf{Q}}$			

1 While Oracle did not delay unreasonably, negotiations with the accused infringer would 2 justify delay in filing suit in any case. See A.C. Aukerman Co., 960 F.2d at 1033. Courts have 3 found delay reasonable or excusable where evidence shows that for several years leading up to 4 the start of litigation, plaintiff engaged in efforts or negotiations to license the defendant. In re 5 Katz Interactive Call Processing Patent Litig., 712 F. Supp. 2d 1080, 1110-11 (C.D. Cal 2010). 6 Lucent Techs., Inc. v. Gateway, Inc., 580 F. Supp. 2d 1016, 1053 (S.D. Cal. 2008) (granting 7 plaintiff's JMOL of advisory verdict—and holding defendant "did not prove the laches factors by 8 a preponderance of the evidence, and even if it had, the Court would exercise its discretion and 9 decline to apply laches in light of all the circumstances of this case."), vacated-in-part on other 10 grounds by 525 F.3d 1200 (Fed. Cir. 2008). 11 Google also failed to demonstrate material prejudice by showing that it took actions or 12 suffered consequences that it would not have had Sun/Oracle brought suit earlier. "The courts 13 must look for a change in the economic position of the alleged infringers during the period of 14 delay." A.C. Aukerman, 960 F.2d at 1033. Google's policy was to push forward and develop 15 Android even if it risked "making enemies along the way," and it did not change its position in 16 reliance on Oracle's inaction. See Oracle's Proposed Findings of Fact, ECF 1049, at 19-24. 17 Finally, "laches is not available in a case of willful infringement." Cf. A.C. Aukerman, 18 960 F.2d at 1033 (conscious copying may constitute "particularly egregious conduct which would 19 change the equities significantly in the plaintiff's favor."); Winn v. Opryland Music Group, Inc., 20 22 Fed. Appx. 728, 729 (9th Cir. 2001). As the evidence shows willful infringement here, 21 Google may not assert the defense of laches. See Oracle's Proposed Findings of Fact, ECF 1049, 22 at 19-24. 23 D. Google Has Not Shown that Oracle or Sun Waived Its Right to Assert Patent **Infringement Claims** 24 25 To prevail on its claim for waiver, Google must prove by clear and convincing evidence 26 that Oracle or Sun, with full knowledge of the material facts, intentionally relinquished rights to 27 enforce the '104 or the '520 patents. *Qualcomm Inc. v. Broadcom Corp.*, 548 F.3d 1004, 1019-

1020 (Fed. Cir. 2008). "An implied waiver of rights will be found where there is 'clear, decisive
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1	and unequivocal' conduct which indicates a purpose to waive the legal rights involved." Adidas-	
2	Am., Inc. v. Payless Shoesource, Inc., 546 F. Supp. 2d 1029, 1074 (D. Or. 2008) (quoting U.S. v.	
3	Amwest Surety Ins. Co., 54 F.3d 601, 602-03 (9th Cir.1995)).	
4	Google has presented no credible evidence that Sun/Oracle intentionally relinquished	
5	rights. Neither Sun nor Oracle ever relinquished anything. Instead both made numerous attempts	
6	to negotiate a license with Google. See section V.A. above and ECF 1081 at 68-70. Moreover,	
7	neither the November 2007 blog post from Mr. Schwartz nor the alleged meetings between Mr.	
8	Schwartz and Mr. Schmidt in late 2007 and early 2008 can support Google's waiver defense	
9	because both took place before Google released its source in October 2008. RT 1719:10-18	
10	(Rubin). Sun therefore could not have had "full knowledge" of the relevant facts at the time of	
11	Schwartz's blog post. Qualcomm, 548 F.3d at 1019-20.	
12	E. Google Has Not Shown that Oracle or Sun Gave It an Implied License to U	
13	Oracle's Patents	
14	The doctrine of implied license has no application here. In the patent infringement	
15	context, "[t]he implied license defense is typically presented 'when a patentee or its licensee sells	
16	an article and the question is whether the sale carries with it a license to engage in conduct that	
17	would infringe the patent owner's rights."" Zenith Elecs. Corp. v. PDI Commc'ns Sys., 522 F.3d	
18	1348, 1360 (Fed. Cir. 2008) (granting JMOL against implied license defense, holding that "an	
19	implied license arising from sale of a component to be used in a patented combination extends	
20	only for the life of the component whose sale and purchase created the license."); Jacobs v.	
21	Nintendo of Am., Inc., 370 F.3d 1097, 1100 (Fed. Cir. 2004) (implied license was derived from	
22	express license between Jacobs and purchaser that specifically authorized purchaser to sell	
23	accelerometers for infringing uses). Relatedly, for there to be an implied license, the plaintiff	
24	must have made an "affirmative grant of consent or permission" to the accused infringer to use	
25	the patented inventions. Wang Labs., Inc. v. Mitsubishi Elecs. Am., Inc., 103 F.3d 1571, 1581	
26	(Fed. Cir. 1997).	
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1	This case could hardly be more different from the ones cited above. There was no "sale"		
2	by Oracle to Google, and no affirmative grant of permission. The record shows the reverse. See		
3	<i>e.g.</i> , ECF 1049 at 15-19.		
4	VI. ALTERNATIVE GOOGLE DEFENSES THAT GOOGLE PLED BUT DID NOT PRESENT TO THE JURY FAIL		
5	A. Google Has Not Shown Patent Misuse. Use by the United States, or Unclean		
6	Hands		
7	In its answer, Google asserted the defenses of patent misuse (Sixth Defense, Google Inc.'s		
8	Answer To Plaintiff's Amended Complaint For Patent And Copyright Infringement And		
9	Amended Counterclaims ("Google Answer") (ECF 51) at 10), use by the United States (Eighth		
10	Defense, Google's Answer at 10), and unclean hands (Nineteenth Defense, Google's Answer at		
11	12). Google did not identify these defenses as remaining to be decided in the parties' October 13,		
12	2011 Joint Proposed Pretrial Order. (ECF 525 at 1-6.) The Court ruled that only those claims or		
13	defenses set forth in the Joint Proposed Pretrial Order remained in the case.		
14	(1/4/2012 Final Pretrial Order (ECF 675) at 1.) See Dream Games of Ariz., Inc. v. PC Onsite, 561		
15	F.3d 983, 996 (9th Cir. 2009) ("[P]arties are typically considered bound by the statements of		
16	claims made in their pretrial order."). Accordingly, these defenses must fail.		
17	B. Google Has Not Shown that Oracle or Sun Gave It an Express License to Use		
18	Oracle's Patents		
19	The Court should grant judgment as a matter of law to Oracle on Google's express license		
20	defense. An express license is a defense to patent infringement. See Carborundum Co. v. Molten		
21	Metal Equip. Innovations, 72 F.3d 872, 878 (Fed. Cir. 1995). Google presented no evidence that		
22	any user of Android (including Google itself) held an express license from Oracle or Sun to the		
23	'104 or '520 patents. Nor did Google argue that defense to the jury. Accordingly, Oracle should		
24	be granted judgment as a matter of law on this defense.		
25	VII. CONCLUSION		
26	For the foregoing reasons, Oracle is entitled to judgment in its favor on its patent		
27	infringement claims and against Google on Google's defenses.		
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1	Dated: May 16, 2012	MORRISON & FOERSTER LLP
2		
3		By: <u>/s/ Michael A. Jacobs</u> Michael A. Jacobs
4		Attorneys for Plaintiff ORACLE AMERICA, INC.
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