	Case 3:06-cv-01905-JSW	Document 46-1	Filed 06/09/2006	Page 1 of 26
1 2 3 4 5 6 7 8	VICTORIA K. HALL (SBN LAW OFFICE OF VICTOR 401 N. Washington St. Suite Rockville MD 20850 Victoria@vkhall-law.com Telephone: 301-738-7677 Facsimile: 240-536-9142 Attorney for Plaintiff ROBERT JACOBSEN	RIA K HALL		
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10			DISTRICT COURT	
11 12	FOR IF		STRICT OF CALIFO	KNIA
12	DODEDT LA CODCENI	SAN FRANCIS		ICW
13	ROBERT JACOBSEN,) No. C-06-1905-	
14 15 16	V.	Plaintiff,) JACOBSEN IN MOTION TO S	ON OF ROBERT N OPPOSITION TO STRIKE CLAIMS 5 AND 7 NT KEVIN RUSSELL
17 18 19	MATTHEW KATZER, et a	l., Defendants.) Courtroom:	2, 17th Floor Hon. Jeffrey S. White
 20 21 22 23 24 25 26 27 28 	declare as follows: 1. I am a party Defendant Kevin Russell's I <u>My Background</u> 2. I earned a B	to this action. I an Motion to Strike Cla achelor of Science of	m submitting this Dec ims 5 and 7. degree in Electrical E 1	s stated herein and hereby claration in Opposition to ngineering and Computer
			OBSEN IN OPPOSITION TO M BY DEFENDANT KEVIN RUSS	

1 Science from MIT in 1978. From approximately 1975 through 1979, I worked in the process control industry, building computer controls for devices such as machine tools, X-ray survey 2 3 instruments, and vapor deposition furnaces. I then worked until 1986 in the data 4 communications industry building devices and systems for conveying and processing digital 5 I am co-inventor of two patents, including one for a multi-protocol digital information. 6 communications device. I have published articles on data communications devices and 7 techniques including articles on communications between multiple devices (R.G. Jacobsen and 8 D.P. Misunas. Analysis of structures for packet communication, in Proceedings of the 1977 9 Intern'l Conf. on Parallel Processing, J.L. Bear (ed.), IEEE (1977)) and on how converting 10 between different types of communications protocols would be an effective technique (D.P. Misunas and R.G. Jacobsen. Protocol convertors expanding network horizons. Data Comm. 9, 11 41 (1979)). 12

13 3. I earned a Ph.D. in experimental high-energy physics from Stanford University 14 in 1991. Since then, I have worked in experimental physics as a researcher and professor. I 15 have led hundreds of researchers in efforts to collaboratively build complex software systems, including multi-protocol data communications efforts. I have taught, published articles and 16 presented invited talks at professional meetings on these topics. As a single example of each 17 type, I presented invited lectures at the 2005 CERN Summer Lecture Series; I presented an 18 19 invited course at the 2005 CERN School of Computing, St. Malo, France; I published a paper 20 entitled "Applying object-oriented software engineering at the BaBar collaboration" in the referred journal Nuclear Instruments and Methods (A389, 1-7). 21

4. I am a tenured professor of physics at the University of California, Berkeley. I
serve as the Associate Dean for Undergraduate Advising of the College of Letters and Science,
a Vice Chair of the physics department, and Chair of the Faculty Senate committee on
undergraduate admissions. I have won awards for research, service and teaching, including
Berkeley's highest recognition, the Distinguished Teaching Award.

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5. I have a part-time faculty appointment in the Physics Division at the Lawrence

1 Berkeley National Laboratory (LBNL). LBNL is managed by the University of California for 2 the United States Department of Energy under contract. LBNL engages in leading edge 3 research in physics, chemistry, biology, energy and material science. LBNL currently has about 4 3,800 employees and a total budget of about \$500 million. Since its founding, nine LBNL 5 researchers have won the Nobel Prize. The LBNL Director is currently Prof. Steve Chu, winner 6 of the 1999 Nobel Prize in Physics. LBNL researchers and the programs they create routinely 7 win national recognition. Most recently, President Bush awarded the Fermi Medal to Prof. 8 Arthur Rosenfeld for his accomplishments in energy research.

6. 9 My experimental particle physics research program is located at LBNL. I currently have three graduate students. I am involved in two major experimental high-energy 10 physics collaborations: the BaBar experiment at the Stanford Linear Accelerator Center 11 12 (SLAC), and the ATLAS experiment at the Center for European Nuclear Research (CERN). My 13 official UC bibliography credits me with authorship or co-authorship of over 250 published 14 papers, of which the most recent is "Measurement of time-dependent CP-violating asymmetries and constraints on sin(2 β + γ) with partial reconstruction of B \rightarrow D*^{\mp} π^{\pm} decays" (*Phys. Rev. D* 15 71, 112003-1-17 2005). 16

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My Interest in Model Railroads and Related Software

I also have a hobby: model railroading.

8. As part of my model-railroading hobby, I have contributed to the development of
 the underlying National Model Railroad Association (NMRA) Digital Command Control
 (DCC) standards used by many model railroaders and present in many types of model railroad
 equipment. I have served as the Chair of the DCC Working Group within the NMRA. I
 worked directly with many types of digital model railroad equipment, including all common
 types of DCC systems. I have used and observed many types of model railroad software. In
 several cases, I have helped people debug other types of model railroad software.

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9. I am involved in the Java Model Railroad Interface (JMRI) open-source software

project. I have been involved since approximately the beginning of the effort in 2001, and am currently one of the leaders of it. I have written parts of the code and documentation. I have helped others write parts. I have given public talks about the use and structure of the software. I have periodically built versions of the JMRI software for general use, and posted them to the SourceForge web site for downloading by the public. The JMRI software is popular among its users.

7 10. The JMRI software project recently won a prestigious award at a large meeting
8 of Sun Java users that recognizes it as one of "the most innovative Java technology-based
9 applications of the year" for its community, its use of technology to empower people to
10 contribute, and for the impact it's had.

11 11. The JMRI software has been jointly developed by people located all over the
world. Currently, 17 developers from at least 5 countries can directly contribute code. More
than 30 other people from at least 7 countries have contributed elements of the software through
these developers.

15 12. My membership in the DCC Working Group lists me as a hobbyist and
16 representative of JMRI itself. It does not associate LBNL with JMRI.

17 13. Besides myself, I am aware of no developer or user of the JMRI software who is
18 employed by either the University of California at Berkeley or the Lawrence Berkeley National
19 Laboratory.

20 14. I have communicated with Katzer via email both directly and through mailing
21 lists numerous times since April 2001.

22

15. Katzer is a member of the NMRA DCC Working Group.

23 16. The people who develop popular model railroad software all know each other or
24 know of each other. It's a small group.

17. I have met Katzer in person at one or more national conventions of the NMRA,
including the associated meetings of the NMRA DCC Working Group. At none of those
meetings did I identify myself as from LBNL, nor did my convention badge identify my

1 employer(s).

18. Katzer has given presentations and workshops on his software at NMRA 2 meetings. 3

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19. I attended some of those presentations and workshops.

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20. Katzer has been present when I spoke about JMRI at least once.

21. I routinely distinguish between my "day job" and JMRI hobby activities in 6 7 emails. Attached hereto as Exhibit A is a true and correct copy of one example of this.

8 22. I have never heard anyone state that JMRI is an official DOE project. I have 9 never seen that stated in email, on the internet or in writing with the exception of Russell's Freedom of Information Act request. 10

23. The September 2003 issue of Railroad Model Craftsman contained an article 11 12 about JMRI. Railroad Model Craftsman is a large circulation magazine for model railroaders. 13 Attached hereto as Exhibit B is a true and correct copy of this article. It refers to JMRI's 14 Decoder Pro (sic) program as "started by a grass roots project by a couple of members of the 15 Silicon Valley Lines in San Jose, California". Silicon Valley Lines is a well-known modelrailroad club in San Joe California. Further, the article says "One of the interesting aspects of 16 this program is the project has been done by volunteers." 17

24. The November 2004 issue of Model Railroader contained an article about JMRI. 18 19 Model Railroader is a large circulation magazine for model railroaders. KAM Industries advertises in Model Railroader. Attached hereto as Exhibit C is a true and correct copy of this 20 article. Referring to the JMRI software, the 2nd paragraph says "a group of dedicated hobbyists 21 have created computer software that makes the task of programming decoder much simpler". 22 The 4th paragraph says "DecoderPro is one of several programs available from a private group 23 24 called JMRI (Java Model Railroad Interface)". This issue of the magazine was available on newsstands and to subscribers at the start of October. I observed a large increase in traffic to 25 the JMRI web site when this article came out. 26

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25. Katzer has been aware that JMRI is a non-commercial activity by hobbyists. He

has alluded to this multiple times in emails and internet postings. Attached hereto as Exhibit D is a true and correct copy of one example, in which he states "So in essence JMRI, while containing some good ideas from an educational perspective, is not a commercial product ...".

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Russell and Katzer's Letter Writing Campaign and FOIA Request

6 26. In March of 2005, I received a letter from Russell of Chernoff, Vilhauer,
7 McClung & Stenzel LLP. In this letter, Russell expressed his belief that the JMRI software
8 infringed Claim 1 of US Patent 6,530,329 (the '329 Patent).

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27. Attached hereto as Exhibit E is a true and correct copy of this letter.

10 28. I sent a letter in reply on March 29, 2005 that said that I was "unable to locate
11 any functionality that infringes on valid claims in U.S, Patent 6,530,329 B2" and requested
12 additional information. Included in the letter was information on how to obtain access to the
13 JMRI code.

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29. Attached hereto as Exhibit F is a true and correct copy of this letter.

30. Later, I received a second letter from Mr. Russell dated August 24, 2005, again
claiming that the JMRI software infringed the '329 Patent. Included with the letter was a
solicitation to pay \$203,000 for 7,000 patent licenses.

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31. Attached hereto as Exhibit G is a true and correct copy of this letter.

32. And again, I received yet a third letter from Russell dated October 20, 2005,
which contained another solicitation to buy 7,000 licenses, described as an "updated Account
Statement", and requested that I let Russell know how I "would like to arrange a payment
schedule for (my) outstanding account balance".

23 33. Attached hereto as Exhibit H is a true and correct copy of this letter and its
24 enclosures.

34. In early November, 2005, I was contacted at work by a lawyer for LBNL, Mr.
Patrick Burke (Mr. Burke). Mr. Burke informed me he was handling a Freedom of Information
Act (FOIA) request from Russell regarding JMRI. He asked a number of questions regarding

my work on and contributions to JMRI, whether LBNL resources had been used during that
 work, what my position at LBNL was, what LBNL projects I was working on, and similar
 topics.

35. Specifically, Mr. Burke informed me that LBNL had received a FOIA request
from Russell wherein it was alleged that I had used LBNL resources in the form of an email
account during the course of engaging in patent infringement. The requests asked LBNL and
the Department of Energy (DOE) to produce all documents related to the JMRI project. This
FOIA request is Katzer Declaration Ex. 1 and Russell Declaration Ex. 4.

9 36. The FOIA request surprised me because for I could not understand how the mere 10 use of an email account would lead someone such as Russell or Katzer to believe that the 11 internet service provider (ISP), or domain name holder associated with the email account had 12 some relationship to an allegation of patent infringement.

37. Further, the FOIA request referred to "the KAM legal action in federal court".
Although that is now known to have never existed, at the time it led me to believe that a lawsuit
was already in progress.

38. The FOIA request refers to the "Physics Division Berkley (sic) Livermore 16 Labs". There are two Lawrence Laboratories: Lawrence Berkeley National Laboratory, for 17 which I work, and Lawrence Livermore National Laboratory. Because the names are similar 18 19 and because the Livermore name is better known, it is common for people to confuse or merge 20 the two names. My listing in the LBNL directory shows that I am associated with the Physics Division. It also shows that I am a staff member employed by LBNL. Attached hereto as 21 Exhibit I is a true and correct copy of this directory listing. I know of no directory listing that 22 would identify me as a member of the Physics Division at LBNL without showing that I am a 23 member of the staff. 24

39. Due to this FOIA request, I had to appear before the Director of the Physics
Division of LBNL to explain the situation. This was an embarrassing experience. He asked
detailed questions about my activity. He said he was concerned about the impact of allegations

of patent infringement on both my reputation and the reputation of LBNL.

40. Later, I received a fourth letter from Russell dated January 3, 2006, which contained a copy of a letter dated November 23, 2005 which I had never received. This contained another solicitation to buy 7,000 licenses, described as an "updated Account Statement", and requested that I let Russell know how I "would like to arrange a payment schedule for (my) outstanding account balance".

7 41. Attached hereto as Exhibit J is a true and correct copy of this letter and its
8 enclosures.

9 42. I replied to Russell by letter on January 31, 2006, indicating that multiple 10 examples of prior art are available to invalidate the patent. I pointed out that JMRI is itself 11 prior art, as it was available at the time that the patent was filed. I reminded him that he was 12 aware of some of this prior art during prosecution of the patent, but chose not to inform the 13 Patent Examiner.

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43. Attached hereto as Exhibit K is a true and correct copy of this letter.

44. I later received a fifth letter from Mr. Russell dated February 7, 2006,
maintaining his insistence that JMRI infringes the '329 patent and incorrectly stating that the
patent had been filed before the JMRI code was available.

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45. Attached hereto as Exhibit L is a true and correct copy of this letter.

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Professional, Economic Harm and Embarassment as a Result of the FOIA Request

46. I spent considerable time in the course of dealing with this sequence of letters
and the Freedom of Information Act (FOIA) request. This required me to turn down two
consulting contracts.

47. In addition to forcing me to turn down a number of lucrative consulting
contracts, the FOIA request by Mr. Russell and Katzer caused me embarrassment, and I felt was
done to try to force me into making a monetary payment to them. My embarrassment arose, in
part, due to the fact that in the course of performing my duties at LBNL, there are certain

1	regulations and policies that I am required to follow. For example, the LBNL policy on
2	Authorized Use of Information Resources states:
3	"Incidental personal use' is allowed as long as it is consistent with this
4	policy and all implementing policies and procedures and does not:
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6	Constitute an "unacceptable use," as defined in Paragraph
7	(C)(4)(c), below."
8	48. The LBNL policy statement describes "unacceptable use" as:
9	"Use of resources in connection with conduct or activities prohibited by
10	Laboratory policy (e.g., fabrication, falsification, or plagiarism in proposing,
11	conducting, or reporting research; unauthorized disclosure of Laboratory
12	proprietary information) or use in violation of applicable copyright or patent
13	laws."
14	49. The sanctions for violations of the policies are stated as:
15	"Any use of Laboratory information resources in violation of this policy
16	may result in one or more of the following sanctions:
17	Restriction of access to such resources;
18	Disciplinary action, up to and including dismissal."
19	50. Attached hereto as Exhibit M is a true and correct copy of the Lawrence
20	Berkeley National Laboratory policy on Authorized Use of Information Resources.
21	51. Furthermore, Russell and Katzer's action threatened my position with the
22	University of California at Berkeley. As a faculty member, I am bound by certain rules
23	regulating professional conduct as codified in the University of California Academic Policy
24	Manual (APM). Sanctions for violations of these rules include dismissal. One such rule of
25	professional conduct relates to "Scholarship", and defines "Types of unacceptable conduct" as:
26	Violation of canons of intellectual honesty, such as research
27	misconduct and/or intentional misappropriation of the writings,
28	9
	No. C-06-1905-JSW DECLARATION OF ROBERT JACOBSEN IN OPPOSITION TO MOTION TO STRIKE CLAIMS 5 AND 7 BY DEFENDANT KEVIN RUSSELL

1 2 research, and findings of others.

2 52. Attached hereto as Exhibit N is a true and correct copy of section 15 of the
3 University of California Academic Policy Manual, titled "GENERAL UNIVERSITY POLICY
4 APM REGARDING ACADEMIC APPOINTEES The Faculty Code of Conduct".

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53. It is common knowledge among university faculty members that there exists numerous instances of faculty members being disciplined, and in many cases dismissed, for failure to acknowledge the use of others' intellectual property. As an example, a Dean at the University of Missouri recently lost his position due to using the work of another without attribution in one speech.

10 54. Attached hereto as Exhibit O is a true and correct copy of a news account of this
11 incident in the Chronicle of Higher Education, a publication widely read by faculty.

12 55. At the NMRA convention in Cincinnati in July 2005, Katzer gave a talk about
13 his products. I arrived part-way through the presentation. During the discussions at the end, I
14 heard Katzer comment on his determination to "enforce" his "intellectual property rights". This
15 aggressive attitude concerned me greatly.

56. As a faculty member, I am on salary during the school year, but paid via research
contracts during the summer based on specific days worked. As such, I had to forgo being paid
for certain days during Summer 2005 due to time spent addressing Mr. Russell and Katzer's
patent assertions.

57. In addition I felt that because I was one of the main participants in the JMRI
project, Russell and Katzer were targeting me to force me and JMRI out of the market place.
By virtue of my involvement with JMRI, I am a presence in the model railroad software market
as is Katzer, and with me and JMRI out of the picture Katzer would be in a better position to
control the market.

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26 Overview of the JMRI Development Process

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58. As part of normal operations, when any JMRI developer decides that new or

modified files are ready for use, he/she "commits" them to our central code repository on the
 SourceForge web site. We have been using this development method since at least before
 August 2001. Any changes are automatically and rapidly made visible to the public via the web
 site.

5 59. A summary of the changes is published on a public web site, and sent to a public
6 mailing list.

7 60. Attached hereto as Exhibit P is a true and correct copy of the part of the
8 SourceForge web site that lists this mailing list traffic during the latter part of March 2002.

9 61. Generally, the first few changes made by a new contributor are sent to one of the 10 existing developers for checking before being committed to the common repository. If those 11 changes are acceptable, they're committed and the new developer is given permission to 12 commit directly in the future.

62. On March 27, 2002, I committed some new code and documentation contributed
by Alex Shepherd of New Zealand. In part, I did this because he was a new developer, and in
part because he was having technical difficulties committing directly. Included in these files
was a new README file, which stated:

The jmrix.loconet Java package defines 17 loconet-specific implementations the **JMRI** interfaces. The 18 for 19 jmrix.loconet.locormi package implements remote communication between a "LocoNet server" and a "LocoNet 20 client" process. 21 The JMRI web page is located at http://jmri.sourceforge.net/ 22

23 This package is the work of Alex Shepherd.

This new README file was immediately available to the public from the SourceForge web site, as was all the code implementing this feature. The feature used a straight-forward implementation of a traditional client-server technique to allow multiple "client" computers to connect to a single "server" computer, and through that server to the shared-resource of the

model railroad layout. Each client would then be able to operate trains on the layout.

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2 63. Alex Shepherd was given direct access to the repository after this, and made
3 additional contributions directly.

64. Starting in early April 2002, I constructed a new public release of the JMRI
code, called version 0.9.2. It was made available to the public for downloading on April 14,
2002. A summary of the changes in this release was mailed to several public mailing lists and
public web sites.

8 65. Attached hereto as Exhibit Q is true and correct copy of one of these email
9 announcements as shown on the SourceForge web site archive.

10 66. As a part of this version 0.9.2, certain software documentation was made
11 available that stated, in part: "Initial support in JMRI libraries for. . . .Remote LocoNet server
12 and client." This feature allows multiple programs to communicate to run trains on the same
13 model train layout.

14 67. On April 17, 2002 two days after the release of version 0.9.2, Katzer filed United
15 States Patent Application No. 10/124,878. This patent application claimed, among other things,

1. A method of operating a digitally controlled model railroad comprising the steps of:

(a) transmitting a first command from a first program to an interface;

20 (b) transmitting a second command from a second
21 program to said interface; and

(c) sending third and fourth commands from said interface
representative of said first and second commands,
respectively, to a digital command station.

16. A method of operating a digitally controlled model railroad comprising the steps of:

(a) transmitting a first command from a first program to

3 program to said interface; and 4 (c) said interface sending a third and fourth comman 5 representative of said first command and said secon 6 command, respectively, to the same digital comman 7 station. 8 68. These claims are conspicuously similar to the very technology disclosed i 9 version 0.9.2. 10 69. Attached hereto as Exhibit R is a true and correct copy of pages from the jack of United States patent application 10/124,878 (the '878 application). Page 1 shows that th patent was closed for prosecution on the merits on November 4, 2002. Page 2 shows that th 13 patent issued on March 11, 2003. I have examined the patent file wrapper, and there is n 14 indication that the references produced by Tanner, and referred to in his declaration, were ser 15 to the USPTO. 16 70. JMRI technology has been discussed on numerous public mailing lists since at 19 Yahoo list on August 3, 2001. 20 72. Katzer has been on the Digitrax mail list since at least September 1998. 21 73. Attached hereto as Exhibit S is a true and correct copy of the Digitrax mailing 22 74. Katzer has been on the jingitrax mail list of the JMRI project since at least 23 <t< th=""><th></th><th></th></t<>		
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28 <u>13</u> No. C-06-1905-JSW DECLARATION OF ROBERT JACOBSEN IN OPPOSITION TO MOTION TO	26	releases of JMRI technology. Each update provides a short summary of the function of new
No. C-06-1905-JSW DECLARATION OF ROBERT JACOBSEN IN OPPOSITION TO MOTION TO	27	features and other changes. The code implementing the new features and changes is always
	28	13

available immediately via the JMRI web site.

2 76. Attached hereto as Exhibit T is a true and correct copy of the JMRI mailing list
3 showing Katzer's participation in the jmriusers mailing list.

- 4 77. To my knowledge no member of the JMRI project was listed as co-inventor on
 5 the '878 application.
- 6

78.

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Mr. Russell was the attorney/agent who filed the '878 application.

7 79. The previously-described Exhibit R is a true and correct copy of pages from the
8 jacket of United States patent application 10/124,878, the '878 application. Page 4 shows the
9 attorney information for the '878 application.

- 80. Prior to the arrival of the first letter from Mr. Russell in March 2005, I would
 normally release a new version of JMRI to the public approximately once per month. In the
 eighteen months before the first letter was received, I released eighteen versions.
- 13 81. In the fifteen months since the first letter from Mr. Russell in March 2005, I
 14 have released six versions of the software. In the 9 months since being presented with a "Sales
 15 Receipt" for \$203, 000, I have released one version. This reduced rate was due legal
 16 uncertainty. Moreover, this reduced release rate has lessened the popularity of JMRI in the
 17 marketplace.
- 18
- 19

Russell's Admission of Illegal Conduct on the part of his client Katzer

20 82. On April 3, 2006, Russell filed a request to withdraw from issue the United
21 States Patent Application No. 10/989,815 (the '815 Application). The cited basis for the
22 petition to withdrawal is illegality of the application or a Rule 1.56 violation.

23 83. Attached hereto as Exhibit U is a true and correct copy of Russell's petition to
24 withdraw.

84. From reading the file history of the '815 Application, this patent application is a
continuation of United States Patent Application No. 10/713,476, which matured into United
States Patent No. 6,909,945 (the '945 Patent). This '945 Patent is a continuation of United

States Patent Application No. 09/311,936 which matured into United States Patent No. 6,676,089 (the '089 Patent). Furthermore, the '089 Patent is a continuation of United States Patent Application No. 09/104,461 (the '461 application), which matured into United States Patent No. 6,065,406 (the '406 Patent). The '406 Patent was filed on June 24, 1998, and was the first patent filed by Katzer relating to model train software. The '878 application is also a continuation of the '461 application.

7 85. Attached hereto as Exhibit V is a true and correct copy of the patent continuity
8 data for the '815 Application.

9

10

Various Examples of Prior Art Available to Katzer

I am familiar with the LocoNet system produced by Digitrax, Inc, of Norcross,
 Georgia. I have studied the protocol documentation, worked with the products embodying the
 protocol, and have developed software and products that implement it.

14 87. The LocoNet system produced by Digitrax, Inc, of Norcross, Georgia performs 15 the functions described by claim 1 and other claims in the '406 patent. Specifically, the 16 LocoNet protocol combines with the "Chief" command station, Digitrax model DCS100, to 17 implement a feature called the "Bushby bit". With this, multiple separate programs send 18 commands to a single central program, which then relays their commands to the command 19 station as needed. This is the functionality described by claim 1 of the '406 patent.

20 88. The LocoNet version 1.1 specification containing this information was settled in
21 April 1996.

22 89. Digitrax shipped Chief command stations with this capability in November
23 1996.

24 90. LocoNet is the only communications protocol that a program could use to talk to
25 Digitrax command stations.

26 91. Attached hereto as Exhibit W is a true and correct copy of a page from the KAM
27 Industries web site, at http://www.trainpriority.com. It lists "Train Server", "Train Tools",

"Engine Commander" and "Computer Dispatcher" as KAM products.

92. Attached hereto as Exhibit X is a true and correct copy of an advertisement by
KAM Industries for "Engine Commander" that appeared in the January 1995 issue of the Model
Railroader magazine. It describes the product as "for ... Digitrax". Its size is approximately 2.3
inches x 1.3 inches.

6 93. Attached hereto as Exhibit Y is a true and correct copy of an advertisement by
7 KAM Industries for "Engine Commander 2.0" that appeared in the July 1996 issue of the
8 Model Railroader magazine. It describes the product as having "support for ... Digitrax". Its
9 size is approximately 2.3 inches x 1.0 inches.

94. Attached hereto as Exhibit Z is a true and correct copy of an advertisement by
KAM Industries for "Engine Commander w/Train Server (ver 2.1)" that appeared in the
December 1997 issue of the Model Railroader magazine. It describes the product as
"supporting ... Digitrax" equipment. Its size is approximately 7.1 inches x 2.3 inches.

Attached hereto as Exhibit AA is a true and correct copy of slides from a
presentation made by Katzer at the 1996 NMRA Convention, copied from the KAM Industries
web site. Slides 6, 9, 10 and 26 mention Digitrax. Slides 9 and 10 discuss the KAM Industries
"Train Commander" product, and discuss its support for Digitrax equipment.

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96. This presentation has recently been removed from the KAM Industries web site.

97. Attached hereto as Exhibit AB is a true and correct copy of Digitrax computer
applications web page at http://www.digitrax.com/computer.htm, that was captured on the
Internet Archive on November 2, 1996. The page said "We also have a number of other third
party software developers who are working on LocoNet Certified products that run on the IBM
or Mac PC's. We will soon be testing some pre-release software from KAM Industries
(developer of Engine Commander) for the IBM/ Windows environment. We'll let you know as
soon as it is ready to go."

26 98. Starting in 1995, John E. Kabat was writing software to interface with LocoNet.
27 In April 1996 he made available for free download version 1.2 of his "LOCONET1" software.

This is a DOS "Terminate and Stay Resident" (TSR) program that allowed other programs to access LocoNet, hence the digital model railroad. It therefore forms an "interface". Kabat then generalized LOCONET1 to work under Windows. It was distributed under various names. As "LOCONET1.VxD" it was made available to the public for free download at some date in 1996; the second version was made available on February 4, 1997. LOCONET1VxD allowed multiple programs on a single Windows PC to communicate with the LocoNet command station simultaneously. It contained an internal message queue, and operated asynchronously.

8 99. Attached hereto as Exhibit AC is a true and correct copy of Mr. Kabat's web
9 page announcing that "LOCONET1.VxD Version 1.1 (BETA) Released: February 4, 1997".

10 100. Katzer included discussion of Mr. Kabat's software in his presentations at the
11 NMRA conventions in 1996, 1997 and 1998.

12 101. The previously-described Exhibit AA is a presentation made by Katzer at the
13 1996 NMRA convention. Page 25 refers to Mr. Kabat's web site.

14 102. Attached hereto as Exhibit AD is a true and correct copy of pages from the 15 jacket of United States patent application 09/104,461, the '461 application. The page marked 1 16 shows that the application was filed on June 24, 1998. The page marked 2 and 3 lists the 17 attorney information for the '461 application. It shows that Russell was the attorney/agent. The 18 pages marked 4 and 5 are Katzer's oath. The page marked 6 includes a reference to a software 19 program by DigiToys of Lawrenceville, Georgia. I have reviewed the patent jacket and did not 20 find any disclosure of the Train Server or Engine Commander products.

21 103. The previously-described Exhibit AA is a true and correct copy of slides from a
22 presentation made by Katzer at the July 1996 NMRA Convention. Page 7 mentions WinLok.
23 Page 8 discusses WinLok's features.

24

104. This presentation was recently removed from the KAM Industries web site.

25 105. Tanner Decl. Ex. F. contains pages that were inserted into the '461 application at
26 the request of Dr. Tanner. They disclose features of the WinLok program that were claimed by
27 Katzer in this patent application.

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106. I am familiar with the WinLok software.

2 107. The WinLok 1.5 and WinLok 2.0 programs perform functionality claimed by the
3 '461 application.

4 108. I have reviewed the 11 patents issued to Katzer to date. None of them include
5 WinLok in their 'References Cited' section. WinLok is described in the 'Background of the
6 Invention' sections.

7 109. Attached hereto as Exhibit AE is a true and correct copy of the complaint for
8 Oregon Federal District Court case 3:02-cv-01293-ST, Katzer et al v. Tanner. This shows the
9 case was filed September 17, 2002. The plaintiff's attorney was Russell. A Notice of Voluntary
10 Dismissal was filed 12/20/2002. Attached hereto as Exhibit AF is a true and correct copy of
11 this notice.

12 110. Attached hereto as Exhibit AG is a true and correct copy of slides from a 13 "Computer Interface" presentation made by Katzer at the July 1998 NMRA Convention, copied 14 from a compact disk distributed by KAM Industries in the October 1998 issue of Model 15 Railroading magazine. Slide 14 mentions "Real Railroad". Slide 17 describes "Real Railroad", 16 points to Mr. Freiwald's web site as of that time, and shows a screen image from running the 17 program. The date on the screen image is August 31 1997.

18

111. I am familiar with the Railroad&Co software.

19 112. The Railroad & Co software performs functionality claimed by the '46120 application.

113. I have reviewed the 11 patents issued to Katzer to date. None of them include
the Railroad & Co software in their 'References Cited' section.

114. Attached hereto as Exhibit AH is a true and correct copy of the complaint for
Oregon Federal District Court case 3:02-cv-01292-HU Katzer et al v. Friewald Software et al.
This shows the case was filed September 17, 2002. The plaintiff's attorney was Russell. A
Notice of Voluntary Dismissal was filed 12/20/2002. Attached hereto as Exhibit AI is a true
and correct copy of this notice.

1 115. Attached hereto as Exhibit AJ is a true and correct copy of slides from a 2 presentation on "Railroad Open System Architecture" (ROSA) by Dr. Tanner at the NMRA 3 National Convention during July 1997. The presentation was during the DCC Working Group 4 meeting. Pages 7 through 13 describe various functionality claimed by Katzer's patents. For 5 example, page 7 shows a program operating multiple DCC systems over communications paths. This is a capability claimed by Katzer's patents. Page 11 shows multiple computers using 6 7 communications paths to control one or more DCC systems through another computer. This is 8 a capability claimed by Katzer's patents. Page 7 and 12, together with 13, show operation of 9 communication systems in concert with a database of common status information. This is a capability claimed by Mr. Kater's patents. 10

11 116. The previously-described Exhibit AG is a "Computer Interface" presentation
12 made by Katzer at the July 1998 NMRA Convention. Slide 4 mentions Dr. Tanner's Railroad
13 Open System Architecture (ROSA) proposal of 1997. Slide 7 refers to the "Rosa application
14 model", references the DigiToys web site, and includes Katzer's statement that KAM's Engine
15 Commander and Train Server products "conform in architecture model".

16 117. Attached hereto as Exhibit AK is a true and correct copy of slides from a "Train
Tools API" presentation made by Katzer at the July 1998 NMRA Convention, copied from a
compact disk distributed by KAM Industries in the October 1998 issue of Model Railroading
magazine. Slide 5 mentions Dr. Tanner's ROSA proposal of 1997. Slide 8 refers to the "Rosa
application model", references the DigiToys web site, and includes Katzer's statement that
KAM's Engine Commander and Train Server products "conform in architecture model".

118. Attached hereto as Exhibit AL is a true and correct copy of slides from a
"NMRA Software Architecture Status" presentation made by Katzer at the July 1998 NMRA
Convention, copied from a compact disk distributed by KAM Industries in the October 1998
issue of Model Railroading magazine. Slide 2 mentions Dr. Tanner's ROSA proposal of 1997.
Slide 5 refers to the "Rosa application model", references the DigiToys web site, and includes
Katzer's statement that KAM's Engine Commander and Train Server products "conform in

1	architecture model".
2	119. Attached hereto as Exhibit AM is a true and correct copy of a web page from the
3	KAM Industries web site at http://www.trainpriority.com/kamind/AboutKam.aspx, captured on
4	November 28, 2005, which says in part:
5	In 1996, Matt and Ken West introduced Train Server, along
6	with the proposed NMRA programming API. The programming API
7	was the first multi user, multi programmed interface that allows
8	developers to create software applications that are not tied to a
9	manufacturer's command station hardware, or any operating system.
10	Train Server was established as the programming standard
11	overnight. Since 1996, KAM has shipped over 100,000 CD-ROMs
12	to end users and developers. Train Server is such an innovative and
13	unique programming environment that numerous patents (see
14	footnotes on this page) have been granted to KAM both in the United
15	States, Germany, Great Britain, Canada and other countries.
16	The footnote at the end of the document says in part
17	Products covered under Patent 6065406, 6267061, 6270040,
18	6530329, 6460467, 6494408, 6676089, 6702235, 6827023, 6877699,
19	Ger 29923834.2, GB 2353228, CDN 2330931 and other US and
20	international patents pending
21	120. On May 24, 2006, I noticed that the page in Exhibit AM on the KAM Industries
22	web site had been replaced with a version that does not contain the 1996 date. Attached hereto
23	as Exhibit AN is a true and correct copy of this web page as of June 4, 2006.
24	121. Attached hereto as Exhibit AO is a true and correct copy of a web page from the
25	United Stated Patent and Trademark Office web site, listing the status of the trademark "Engine
26	Commander". It shows that the trademark application was filed on January 14, 1998, listing a
27	date of first use on or before January 1, 1993 and first commercial use on or before January 1,
28	<u>20</u>
	No. C-06-1905-JSW DECLARATION OF ROBERT JACOBSEN IN OPPOSITION TO MOTION TO STRIKE CLAIMS 5 AND 7 BY DEFENDANT KEVIN RUSSELL

1993, and that the attorney of record was Kevin Russell.

122. Attached hereto as Exhibit AP is a true and correct copy of a web page from the
United Stated Patent and Trademark Office web site, listing the status of the trademark "Train
Tools". It shows that the trademark application was filed on January 14, 1998, listing a date of
first use in or before June 1996 and first commercial use in or before July 1997, and that the
attorney of record was Kevin Russell.

Attached hereto as Exhibit AQ is a true and correct copy of a web page from the
United Stated Patent and Trademark Office web site, listing the status of the trademark "Train
Server". It shows that the trademark application was filed on January 14, 1998, listing a date of
first use in or before June 1997 and first commercial use in or before June 1997, and that the
attorney of record was Kevin Russell.

12 124. Attached hereto as Exhibit AR is a true and correct copy of a web page from the 13 United Stated Patent and Trademark Office web site, listing the status of the trademark 14 "Computer Dispatcher". It shows that the trademark application was filed on January 14, 1998, 15 listing a date of first use in or before June 1996 and first commercial use in or before July 1997, 16 and that the attorney of record was Kevin Russell.

17 125. Attached hereto as Exhibit AS is a true and correct copy of literature for the
18 KAM Industries "Engine Commander" product distributed by a compact disk in the October
19 1998 issue of the Model Railroading magazine. This says in part "Engine Commander(TM)
20 includes Train Tools(TM) Command station interface. The program allows the user to run
21 Engine Commander(TM) or a Visual Basic application at the same time. This dual interface
22 support can be supported locally on you system or on a remote Train Tools(TM) server. "

23 126. Attached hereto as Exhibit AT is a true and correct copy of a KAM Industries
24 web page at http://kam.rain.com/whatsnew.htm captured by the Internet Archive on April 12,
25 1997 that is dated December 18, 1996 and says in part

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Engine Commander 2.0 is an unreleased product. Product features my change.

Preliminary features of Engine-Commander 2.0 beta 2 (avaiable 1/10/97

1	
2	Dual controller support; on multiple serial ports (1 - 10) so you can run one
3	conntroller on one port and different controller on the other port.
4	127. Engine Commander 2.0 beta 2 provided functionality claimed by the '406 patent.
5	The '406 patent includes claim 27:
6	A method of operating a digitally controlled model
7	railroad comprising the steps of:
8	(a) transmitting a first command from a first client
9	program to a resident external controlling interface
10	through a first communications transport;
11	(b) receiving said first command at said resident external
12	controlling interface; and
13	(c) said resident external controlling interface selectively
14	sending a second command representative of said first
15	command to one of a plurality of digital command stations
16	for execution on said digitally controlled model railroad
17	based upon information contained within at least one of
18	said first and second commands.
19	128. Attached hereto as Exhibit AU is a true and correct copy of slides from a
20	presentation made by Katzer at the 1997 NMRA Convention, copied from the KAM Industries
21	web site. Numerous slides discuss Engine Commander and the Train Tools interface. Slide 19
22	says in part:
23	OK what did we see (sic)
24	TrainTools [™] interface supplied with EnigneCommander [™] (sic)
25	We used the local server, instead of a networked server
26	Ran a Visual Basic application
27	Thus, the Train Tools interface is a part of Engine Commander and provides connections to a
28	22
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server from multiple local and/or remote application programs. Page 30 discusses that it is 1 2 "Designed to support up to 10 command station divisions", a plurality of command station connections. 3

129. 4 Train Tools and Engine Commander provide functionality claimed by the '406 5 patent.

130. Attached hereto as Exhibit AV is a true and correct copy of the KAM Industries 6 7 Train Server Administration Guide, dated October 6, 2004. It states that it is copyright 1991-2004. 8

9 131. Attached hereto as Exhibit AW is a true and correct copy of the KAM Industries Train Server Interface Description, Volume 1, dated June 7, 1999. It states that it is copyright 10 1992-1998, and says in part: 11

12 Train Tools(TM) is the applications interface that uses the Train 13 Server(TM) to send commands to and from the command stations. The 14 Train Server(TM) uses a patented cache model to maintain decoder state, 15 provide updates, and to establish a fault tolerant command execution sequence to the command station. 16

132. Train Server provides functionality claimed by the '406 patent. 17

133. I have reviewed the 11 patents issued to Katzer to date. None of them include 18 19 Train Server, Train Tools or Engine Commander in their 'References Cited' section.

134. Attached hereto as Exhibit AX is a true and correct copy of literature for the 20 KAM Industries "Computer Dispatcher" product distributed by a compact disk in the October 21 1998 issue of the Model Railroading magazine. It says in part: 22

Computer Dispatcher(R) is modeled after the TrainTrack's TDPro(TM) 23 24 system, which is in production on over 20 Class 1 railroads worldwide. 25 Train Track's web page is at http://www.traintrack.com.

135. 26 Attached hereto as Exhibit AY is a true and correct copy of a KAM Industries product brochure downloaded from the KAM Industries web site during June 2006. It says in 27

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1	part

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Train Driver Professional is a commercial software application that was
designed for the American railroads in the 80's. This software was in
operation on 21 class 1 railroads in the United States and in Western
Australia. The software is still in use today and its primary focus is the
light rail systems in the US. KAM has updated Train driver professional
and has converted the software to DCC.

136. Attached hereto as Exhibit AZ is a true and correct copy of a Train Track Computer Systems Web page, at http://www.traintrack.com/History.asp. It says in part:

> Many other changes were happening in the computer industry simultaneously, including LANs (local area networks), Cheap PCs and the ubiquitous Microsoft Windows platform. While all other companies focused on Unix, VMS or OS/2, Train Track was the first to develop this technology.

15

In 1996 we licensed the software for UNIX applications to GE Harris in Melbourne, FL. In 1997 we decided to exit the large systems business and license the software wherever practical.

19 137. Attached hereto as Exhibit BA is a true and correct copy of a presentation from the KAM website titled "1999 Computer Dispatcher® Pro Training Session" This presentation 20 discusses the "Track Driver Professional 32" (TD Pro 32) software product of Train Track 21 Computer Systems. Slide 4 indicates the TD Pro 32 product was "client-server" in 1993. Slide 22 13 again describes TD Pro 32 as "client-server", and shows that communication among several 23 24 computers is involved in operating the railroad. Slide 14 shows multiple "workstation" computers connected to send commands to the railroad via multiple "CodeServer" computers, 25 26 the equivalent of model railroad command stations. This is the functionality claimed by Katzer's patents. Slide 25 shows that KAM is a "Dealer" for this product. 27

1	138. This presentation has recently been removed from the KAM Industries web site.
2	139. KAM built their "Computer Dispatcher Pro" product based on Train Track
3	software, for which KAM is a licensee.
4	140. Attached hereto as Exhibit BB is a true and correct copy of a press release
5	copied from a compact disk distributed by KAM Industries in the October 1998 issue of Model
6	Railroading magazine. The press release is titled "KAM Licenses Train Track(TM) Software
7	for Model Railroad Enthusiasts". It is dated July 24, 1998. It includes in part:
8	KAM Industries announced today that they have received
9	an exclusive, worldwide license for Train Track's TDPro
10	software for the model railroad market.
11	
12	KAM will convert the world class Train Track software
13	for use by the model railroad enthusiast and combine it
14	with KAM's patent-pending Train Server(R) technology.
15	KAM will introduce their product based on the TDPro
16	software in Q1'99
17	
18	Various Examples of Prior Art Available to Katzer and Russell
19	
20	141. The previously-described Exhibit AD is a true and correct copy of pages from
21	the jacket of United States patent application 09/104,461, the '461 application. The page
22	numbered 7 says that application describes the "Train Tools TM Interface Description" and that it
23	is "Copyright 1992-1998". The page numbered 8 says that "This document describes the IDL
24	interface to the KAM Industries Engine Commander Train Server."
25	142. Together, these indicate that the invention in the '461 application is embodied in
26	the KAM Industries Engine Commander and Train Server products.
27	143. As demonstrated in earlier paragraph 126, Engine Commander was advertised to
28	25
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1	the public on April 12, 1997 or before as specifically having the capability to "run one
2	conntroller (sic) on one port and different controller on the other port." This functionality was
3	claimed in the original 6,065,406 patent as claim 27:
4	27. A method of operating a digitally controlled model railroad
5	comprising the steps of:
6	(a) transmitting a first command from a first client program to a
7	resident external controlling interface through a first
8	communications transport;
9	(b) receiving said first command at said resident external
10	controlling interface; and
11	(c) said resident external controlling interface selectively sending a
12	second command representative of said first command to one of a
13	plurality of digital command stations for execution on said
14	digitally controlled model railroad based upon information
15	contained within at least one of said first and second commands.
16	
17	I declare under penalty of perjury under the laws of the United States of America that
18	the foregoing is the and correct.
19	
20	Executed this day of June, 2006, in Berkeley, California.
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24	ByRobert Jaco sen
25	Robert Jaco Self
26	
27	
28	26 No. C-06-1905-JS'V DECLARATION OF ROBERT JACOBSEN IN OPPOSITION TO MOTION TO
	STRIKE CLAIMS 5 AND 7 BY DEFENDANT KEVIN RUSSELL