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Physics Dept UC Berkele

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Case 3:06-cv-01905-JSW

Document 46

Filed 06/09/2006

Page 1 of 9

Jacobsen Declaration Exhibit AD

Case 3:06-cv-01905-JSW



Document 46 UNITED STATUS DEPARTMENT OF COMMERCE Page 2 of 9 DEPARTMENT OF COMMERCE

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

PM82/1123

KEVIN L RUSSELL CHERNOFF VILHAUER MCCLUNG & STENZEL ONE SW COLUMBIA SUITE 600 PORTLAND OR 97258

APPLIC	ATION NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT		DATE MAILED
	09/104,461	06/24/98	3 054	HERNANDEZ, O	36	61 11/23/99
First Named Applicant	KATZER,		35	USC 154(b) term ext. =	0	Days.

TITLE OF MODEL TRAIN CONTROL SYSTEM INVENTION

ATTY'S DOCKET NO.	CLASS-SUBC	LASS	BATCH NO.	APPLN	I. TYPE	SMALL	ENTITÝ	* FEE DUE	DATE DUE
2 KLR:7	431.001	105-	001.500	E71	UTIL	ITY	YES	\$605.0	0: 02/23/00

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Total Pages Attorney Docket No. KLR:7431.001 UTILITY First Named Inventor or Application Identifier PATENT APPLICATION Matthew A. Katzer TRANSMITTAL

(Only for new i	nonprovisional applications under 37 CFR 1	.53(b)) Expres	s Mail Label No. EM5	71160295	US 🥦				
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2. X Sp	pecification (Total Pag referred arrangement set forth below)		7. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)						
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1	Brief Description of the Drawings (<i>if file</i> Detailed Description	u)	8. Assignme	ent Papers (co	/er sheet & document(s))				
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4. Oath or D	Declaration (Total Page	es 2 1	11. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations						
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ADDITE 33									
СІТҮ	Portland Portland	STATE	OR	ZIP CODE	97258				
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Application Number	09/104461 June 24, 1998			
Filing Date				
First Named Inventor	Katzer			
Group Art Unit	3661			
Examiner Name	Hernandez, O.			
Attorney Docket Number	KLR:7431.001			

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X Attorney or agent of record .						
Typed or Printed Name	Kevin L. Russell	٠				
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DECLARATION AND POWER OF ATTORNEY

As the below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to our name,

I believe I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

MODEL TRAIN CONTROL SYSTEM

the specification of which

[x]is attached hereto.

was filed on Application Serial No. and was amended on (if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

	pricacion(b)	Priority <u>Claimed</u>
(Number)	(Country)	[] Yes [] No (Day/Month/Year Filed)
(Number)	(Country)	[] Yes [] No (Day/Month/Year Filed)
I hereby claim to States provision		r 35 U.S.C. § 119(e) of any United s) listed below.
(Application Ser	rial No.)	(Filing Date)

Exhibit AD page 4

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I hereby claim the benefit under Title 35, United States Code, § 120, of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Ser. No.) (Filing Date) (Status) (patented, pending, abandoned) (Application Ser. No.) (Filing Date) (Status) (patented, pending, abandoned)

I hereby appoint Jacob E. Vilhauer, Jr., Reg. No. 24,885, Charles D. McClung, Reg. No. 26,568, Dennis E. Stenzel, Reg. No. 28,763, Donald B. Haslett, Reg. No. 28,855, William O. Geny, Reg. No. 27,444, J. Peter Staples, Reg. No. 30,690, Karen Fienberg Oster, Reg. No. 37,621, Kevin L. Russell, Reg. No. 38,292, Bruce W. DeKock, Req. No. 40,585, Nancy J. Moriarty, Reg. No. 40,733, and Timothy E. Siegel, Reg. No. 37,442, all of the firm of Chernoff, Vilhauer, McClung & Stenzel, LLP, 600 Benj. Franklin Plaza, One S.W. Columbia, Portland, Oregon 97258, telephone number 503-227-5631, my attorneys, jointly and individually, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of inventor Residence

Citizenship

Matthew A. Katzer

1416 NW Benfield Drive Portland, Oregon 97229 United States of America

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Page 7 of 9

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March 1997, and is incorporated herein by reference. While providing the ability to individually control different devices of the railroad set, the DCC system still fails to provide the capability for multiple operators to control the railroad devices, especially if the operators are remotely located from the railroad set and each other.

DigiToys Systems of Lawrenceville, Georgia has developed a software program for controlling a model railroad set from a remote location. The software includes an Interface which allows the operator to select desired changes to devices of the railroad set that include a digital decoder, such as increasing the speed of a train or switching a switch. The software issues a command locally or through a network, such as the internet, to a digital command station at the railroad set which executes the command. The protocol used by the software is based on Cobra from Open Management Group where the software issues a command to a communication interface and awaits confirmation that the command was executed by the digital command station. When the software receives confirmation that the command executed, the software program sends the next command through the communication interface to the digital command station. In other words, the technique used by the software to

In other words, the technique used by the software to control the model railroad is analogous to an inexpensive printer where commands are sequentially issued to the printer after the previous command has been executed. Unfortunately, it has been observed that the response of the model railroad to the operator appears slow, especially over a distributed network such as the internet. One technique to decrease the response time is to use high-speed network connections but unfortunately such connections are expensive.

What is desired, therefore, is a system for controlling a model railroad that effectively provides a

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commands from the command stations and passes the commands to the validation function 206. The validation function 206 compares the received command against potential commands that are in the queue of the command sender 202 that could potentially provide such a result. The validation function 206 determines one of four potential results from the comparison. First, the results could be simply bad data that is discarded. Second, the results could be partially executed commands which are likewise normally discarded. Third, the results could be valid responses but not relevant to any command sent. Such a case could result from the operator manually changing the state of devices on the model railroad or from another external device, assuming a shared interface to the DCS. Accordingly, the results are validated and passed to the result processor 210. Fourth, the results could be valid responses relevant to The corresponding command is removed a command sent. from the command sender 202 and the results passed to the result processor 210. The commands in the queue of the command sender 202, as a result of the validation process 206, are retransmitted a predetermined number of times, then if error still occurs the digital command station is reset, which if the error still persists then the command is removed and the operator is notified of the error.

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APPLICATION PROGRAMMING INTERFACE

Train ToolsTM Interface Description
Building your own visual interface to a model railroad
Copyright 1992-1998 KAM Industries.
Computer Dispatcher, Engine Commander, The Conductor,
Train Server, and Train Tools are Trademarks of KAM
Industries, all Rights Reserved.
Questions concerning the product can be EMAILED to:
traintools@kam.rain.com
You can also mail questions to:
KAM Industries
2373 NW 185th Avenue Suite 416
Hillsboro, Oregon 97124

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FAX - (503) 291-1221

Page 9 of 9

```
Else
              Command.Enabled = False
              Throttle.Enabled = False
 5
         Else
              Connect.Enabled = True
              Disconnect.Enabled = False
              Command.Enabled = False
              ONCmd.Enabled = False
10
              OffCmd.Enabled = False
              DCCAddr.Enabled = False
              UpDownAddress.Enabled = False
              Throttle.Enabled = False
              End If
15
    End Sub
     /**************
     'Power Off function
     ********
     Private Sub OffCmd Click()
20
         Dim iError As Integer
         iError = EngCmd.KamOprPutPowerOff(iLogicalPort)
         SetError (iError)
     End Sub
     / **************
25
     'Power On function
     Private Sub ONCmd Click()
         Dim iError As Integer
         iError = EngCmd.KamOprPutPowerOn(iLogicalPort)
30
         SetError (iError)
     End Sub
     'Throttle slider control
35
     Private Sub Throttle Click()
         If (lEngineObject) Then
              If (Throttle. Value > 0) Then
                 Speed.Text = Throttle.Value
40
                 End If
```

45 I. IDL COMMAND REFERENCE

End Sub

A. Introduction

End If

This document describes the IDL interface to
the KAM Industries Engine Commander Train Server. The
Train Server DCOM server may reside locally or on a
network node This server handles all the background
details of controlling your railroad. You write simple,
front end programs in a variety of languages such as
BASIC, Java, or C++ to provide the visual interface to