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PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**1.) David F. SORRELLS 2.) Michael J. BULTMAN 3.)  
Robert W. COOK 4.) Richard C. LOOKE 5.) Charley D.  
MOSES, Jr. 6.) Gregory S. RAWLINS; 7.) Michael W.  
RAWLINSAdditional name(s) of conveying party(ies) attached? ☐ Yes ☐ No**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) See 1 in Addendum

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

**2. Name and address of receiving party(ies)**Name: ParkerVision, Inc.

Internal Address: \_\_\_\_\_

Street Address: 7915 Baymeadows Way  
Suite 400City: JacksonvilleState: FloridaCountry: \_\_\_\_\_ Zip: 32256Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**☒ This document is being filed together with a new application.

A. Patent Application No.(s)

To Be Assigned

B. Patent No.(s)

FMEITEK11 00000068 11582367

40.00 OF

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: Sterne, Kessler, Goldstein & Fox P.L.L.C.Internal Address: c/o Timothy A. DoyleStreet Address: 1100 New York Avenue, N.W.City: WashingtonState: D.C. Zip: 20005-3934Phone Number: (202) 371-2600Fax Number: (202) 371-2540Email Address: TDOYLE@SKGF.COM**6. Total number of applications and patents involved: 1****7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00**

- ☒ Authorized to be charged by credit card  
☐ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**a. Credit Card Last 4 Numbers 1005Expiration Date 08/2009b. Deposit Account Number 19-0036

Authorized User Name \_\_\_\_\_

**9. Signature:**

Signature

Date

Timothy A. Doyle  
Name of Person SigningTotal number of pages including cover  
sheet, attachments, and documents: 3Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

# Addendum

1. 1. June 23, 1999; 2. June 23, 1999; 3. June 23, 1999; 4. June 23, 1999; 5. June 23, 1999; 6. June 24, 1999; 7. June 24, 1999

## ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): 1) David F. Sorrells, 2) Michael J. Bultman, 3) Robert W. Cook, 4) Richard C. Looke, 5) Charley D. Moses, Jr., 6) Gregory S. Rawlins, and 7) Michael W. Rawlins the undersigned inventor(s) hereby sell(s) and assign(s) to ParkerVision, Inc. (the Assignee) his/her entire right, title and interest, including the right to sue for and collect for all past, present and future damages:

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),  
☒ and throughout the world,

(a) in the invention(s) known as Method and System for Frequency Up-Conversion With a Variety of Transmitter Configurations for which application(s) for patent in the United States of America has (have) been executed by the undersigned inventor(s) on 1) 6/23/99, 2) 6/23/99, 3) 6/23/99, 4) 6/23/99, 5) 6/23/99, 6) 6/23/99, and 7) 6/22/99 (also known as United States Application No. 09/293,580 (Attorney Docket Number 1744.0020002), filed April 16, 1999), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application(s) listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application(s) or Letters Patent(s) therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application(s) listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application(s), and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application(s), including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable; all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represents that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl,

Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; and Steven R. Ludwig, Esquire, Reg. No. 36,203, of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date(s) opposite his/her name(s).

(1) Date: 6/23/99 Signature of Inventor: David F. Sorrells  
David F. Sorrells

(2) Date: 23 Jun 99 Signature of Inventor: Michael J. Bultman  
Michael J. Bultman

(3) Date: 6/23/99 Signature of Inventor: Robert W. Cook  
Robert W. Cook

(4) Date: 6/23/99 Signature of Inventor: Richard C. Looke  
Richard C. Looke

(5) Date: 06-23-99 Signature of Inventor: Charley D. Moses, Jr.  
Charley D. Moses, Jr.

(6) Date: 06-24-99 Signature of Inventor: Gregory S. Rawlins  
Gregory S. Rawlins

(7) Date: 6/24/99 Signature of Inventor: Michael W. Rawlins  
Michael W. Rawlins

**DO NOT FORWARD  
TO ASSIGNMENT BRANCH  
NOT FOR RECORDATION**

## ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): 1) David F. Sorrells, 2) Michael J. Bultman, 3) Robert W. Cook, 4) Richard C. Looke, 5) Charley D. Moses, Jr., 6) Gregory S. Rawlins, and 7) Michael W. Rawlins the undersigned inventor(s) hereby sell(s) and assign(s) to ParkerVision, Inc. (the Assignee) his/her entire right, title and interest, including the right to sue for and collect for all past, present and future damages:

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),  
☒ and throughout the world,

(a) in the invention(s) known as Method and System for Frequency Up-Conversion With a Variety of Transmitter Configurations for which application(s) for patent in the United States of America has (have) been executed by the undersigned inventor(s) on 1) 6/22/99, 2) 6/23/99, 3) 6/23/99, 4) 6/23/99, 5) 6/23/99, 6) 6/23/99, and 7) 6/22/99 (also known as United States Application No. 09/293,580 (Attorney Docket Number 1744.0020002), filed April 16, 1999), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application(s) listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application(s) or Letters Patent(s) therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application(s) listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application(s), and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application(s), including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable; all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

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(1) Date: 6/23/99 Signature of Inventor: David F. Sorrells  
David F. Sorrells

(2) Date: 23 Jan 99 Signature of Inventor: Michael J. Bultman  
Michael J. Bultman

(3) Date: 6/23/99 Signature of Inventor: Robert W. Cook  
Robert W. Cook

(4) Date: 6/23/99 Signature of Inventor: Richard C. Looke  
Richard C. Looke

(5) Date: 06-23-99 Signature of Inventor: Charley D. Moses, Jr.  
Charley D. Moses, Jr.

(6) Date: 06-24-99 Signature of Inventor: Gregory S. Rawlins  
Gregory S. Rawlins

(7) Date: 6/24/99 Signature of Inventor: Michael W. Rawlins  
Michael W. Rawlins