

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6872631

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	EMPLOYMENT, CONFIDENTIAL INFORMATION AND INVENTION ASSIGNMENT AGREEMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MATTHEW BROMBERG	07/10/2006
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	BRN PHOENIX, INC.
<b>Street Address:</b>	2500 AUGUSTINE DRIVE, SUITE 200
<b>City:</b>	SANTA CLARA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95054
<b>PROPERTY NUMBERS Total: 4</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	12276261
Application Number:	13411507
Application Number:	13411510
Application Number:	14804094
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(404)541-3111
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	4048156500
<b>Email:</b>	landrew@kilpatricktownsend.com
<b>Correspondent Name:</b>	THE DIRECTV GROUP, INC.
<b>Address Line 1:</b>	2260 E. IMPERIAL HWY.
<b>Address Line 4:</b>	EL SEGUNDO, CALIFORNIA 90245
<b>ATTORNEY DOCKET NUMBER:</b>	DTV208070
<b>NAME OF SUBMITTER:</b>	LESLEY L. ANDREW
<b>SIGNATURE:</b>	/Lesley L. Andrew/
<b>DATE SIGNED:</b>	08/19/2021
<b>Total Attachments: 10</b>	
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# BRN Phoenix, Inc.

## EMPLOYMENT, CONFIDENTIAL INFORMATION AND INVENTION ASSIGNMENT AGREEMENT

As a condition of my employment with BRN Phoenix, Inc., its subsidiaries, affiliates, successors or assigns (together the "Company"), and in consideration of my employment with the Company and my receipt of the compensation now and hereafter paid to me by Company, I agree to the following:

1. **At-Will Employment.** I UNDERSTAND AND ACKNOWLEDGE THAT MY EMPLOYMENT WITH THE COMPANY IS FOR AN UNSPECIFIED DURATION AND CONSTITUTES "AT-WILL" EMPLOYMENT. I ALSO UNDERSTAND THAT ANY REPRESENTATION TO THE CONTRARY IS UNAUTHORIZED AND NOT VALID UNLESS OBTAINED IN WRITING AND SIGNED BY THE PRESIDENT OF THE COMPANY. I ACKNOWLEDGE THAT THIS EMPLOYMENT RELATIONSHIP MAY BE TERMINATED AT ANY TIME, WITH OR WITHOUT GOOD CAUSE OR FOR ANY OR NO CAUSE, AT THE OPTION EITHER OF THE COMPANY OR MYSELF, WITH OR WITHOUT NOTICE.

2. **Confidential Information.**

(a) **Company Information.** I agree at all times during the term of my employment and thereafter, to hold in strictest confidence, and not to use, except for the benefit of the Company, or to disclose to any person, firm or corporation without authorization of the President of the Company, any Confidential Information of the Company. I understand that "Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customer lists and customers (including, but not limited to, customers of the Company on whom I called or with whom I became acquainted during the term of my employment), markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed to me by the Company either directly or indirectly in writing, orally or by drawings or observation of parts or equipment. I further understand that Confidential Information does not include any of the foregoing items which has become publicly known and made generally available through no wrongful act of mine or of others who were under confidentiality obligations as to the item or items involved or improvements or new versions thereof.

(b) **Former Employer Information.** I agree that I will not, during my employment with the Company, improperly use or disclose any proprietary information or trade secrets of any former or concurrent employer or other person or entity and that I will not bring onto the premises of the Company any unpublished document or proprietary information belonging to any such employer, person or entity unless consented to in writing by such employer, person or entity.

(c) **Third Party Information.** I recognize that the Company has received and in the future will receive from third parties their confidential or proprietary information subject to a duty on the Company's part to maintain the confidentiality of such information and to use it only for certain limited purposes. I agree to hold all such confidential or proprietary information in the strictest confidence and not to disclose it to any person, firm or corporation or to use it except as necessary in carrying out my work for the Company consistent with the Company's agreement with such third party.

### 3. Inventions.

(a) **Inventions Retained and Licensed.** I have attached hereto, as Exhibit A, a list describing all inventions, original works of authorship, developments, improvements, and trade secrets which were made by me prior to my employment with the Company (collectively referred to as "Prior Inventions"), which belong to me, which relate to the Company's proposed business, products or research and development, and which are not assigned to the Company hereunder; or, if no such list is attached, I represent that there are no such Prior Inventions. If in the course of my employment with the Company, I incorporate into a Company product, process or machine a Prior Invention owned by me or in which I have an interest, the Company is hereby granted and shall have a nonexclusive, royalty-free, irrevocable, perpetual, worldwide license to make, have made, modify, use and sell such Prior Invention as part of or in connection with such product, process or machine.

(b) **Assignment of Inventions.** I agree that I will promptly make full written disclosure to the Company, will hold in trust for the sole right and benefit of the Company, and hereby assign to the Company, or its designee, all my right, title, and interest in and to any and all inventions, original works of authorship, developments, concepts, improvements, designs, discoveries, ideas, trademarks or trade secrets, whether or not patentable or registrable under copyright or similar laws, which I may solely or jointly conceive or develop or reduce to practice, or cause to be conceived or developed or reduced to practice, during the period of time I am in the employ of the Company (collectively referred to as "Inventions"), except as provided in Section 3(f) below. I further acknowledge that all original works of authorship which are made by me (solely or jointly with others) within the scope of and during the period of my employment with the Company and which are protectible by copyright are "works made for hire," as that term is defined in the United States Copyright Act. I understand and agree that the decision whether or not to commercialize or market any invention developed by me solely or jointly with others is within the Company's sole discretion and for the Company's sole benefit and that no royalty will be due to me as a result of the Company's efforts to commercialize or market any such invention.

(c) **Inventions Assigned to the United States.** I agree to assign to the United States government all my right, title, and interest in and to any and all Inventions whenever such full title is required to be in the United States by a contract between the Company and the United States or any of its agencies.

(d) **Maintenance of Records.** I agree to keep and maintain adequate and current written records of all Inventions made by me (solely or jointly with others) during the term of my employment with the Company. The records will be in the form of notes, sketches, drawings, and any other format that may be specified by the Company. The records will be available to and remain the sole property of the Company at all times.

(e) **Patent and Copyright Registrations.** I agree to assist the Company, or its designee, at the Company's expense, in every proper way to secure the Company's rights in the Inventions and any copyrights, patents, mask work rights or other intellectual property rights relating thereto in any and all countries, including the disclosure to the Company of all pertinent information and data with respect thereto, the execution of all applications, specifications, oaths, assignments and all other instruments which the Company shall deem necessary in order to apply for and obtain such rights and in order to assign and convey to the Company, its successors, assigns, and nominees the sole and exclusive rights, title and interest in and to such Inventions, and any copyrights, patents, mask work rights or other intellectual property rights relating thereto. I further agree that my obligation to execute or cause to be executed, when it is in my power to do so, any such instrument or papers shall continue after the termination of this Agreement. If the Company is unable because of my mental or physical incapacity or for any other reason to secure my signature to apply for or to

pursue any application for any United States or foreign patents or copyright registrations covering Inventions or original works of authorship assigned to the Company as above, then I hereby irrevocably designate and appoint the Company and its duly authorized officers and agents as my agent and attorney in fact, to act for and in my behalf and stead to execute and file any such applications and to do all other lawfully permitted acts to further the prosecution and issuance of letters patent or copyright registrations thereon with the same legal force and effect as if executed by me.

(f) **Exception to Assignments.** I understand that the provisions of this Agreement requiring assignment of Inventions to the Company do not apply to any invention which qualifies fully under the provisions of California Labor Code Section 2870 (attached hereto as Exhibit B). I will advise the Company promptly in writing of any inventions that I believe meet the criteria in California Labor Code Section 2870 and not otherwise disclosed on Exhibit A.

4. **Conflicting Employment.** I agree that, during the term of my employment with the Company, I will not engage in any other employment, occupation, consulting or other business activity that relates to the business in which the Company is now involved or becomes involved during the term of my employment, nor will I engage in any other activities that conflict with my obligations to the Company.

5. **Returning Company Documents.** I agree that, at the time of leaving the employ of the Company, I will deliver to the Company (and will not keep in my possession, recreate or deliver to anyone else) any and all devices, records, data, notes, reports, proposals, lists, correspondence, specifications, drawings blueprints, sketches, materials, equipment, other documents or property, or reproductions of any aforementioned items developed by me pursuant to my employment with the Company or otherwise belonging to the Company, its successors or assigns, including, without limitation, those records maintained pursuant to paragraph 3(d). In the event of the termination of my employment, I agree to sign and deliver the "Termination Certification" attached hereto as Exhibit C.

6. **Notification of New Employer.** In the event that I leave the employ of the Company, I hereby grant consent to notification by the Company to my new employer about my rights and obligations under this Agreement.

7. **Solicitation of Employees.** I agree that for a period of twelve (12) months immediately following the termination of my relationship with the Company for any reason, whether with or without cause, I shall not either directly or indirectly solicit, induce, recruit or encourage any of the Company's employees to leave their employment, or take away such employees, or attempt to solicit, induce, recruit, encourage or take away employees of the Company, either for myself or for any other person or entity.

8. **Conflict of Interest Guidelines.** I agree to diligently adhere to the Conflict of Interest Guidelines attached as Exhibit D hereto.

9. **Representations.** I agree to execute any proper oath or verify any proper document required to carry out the terms of this Agreement. I represent that my performance of all the terms of this Agreement will not breach any agreement to keep in confidence proprietary information acquired by me in confidence or in trust prior to my employment by the Company. I have not entered into, and I agree I will not enter into, any oral or written agreement in conflict herewith.

10. **General Provisions.**

(a) **Governing Law; Consent to Personal Jurisdiction.** This Agreement will be governed by the laws of the State of California. I hereby expressly consent to the personal jurisdiction of the state and federal courts located in California for any lawsuit filed there against me by the Company arising from or relating to this Agreement.

(b) **Entire Agreement.** This Agreement sets forth the entire agreement and understanding between the Company and me relating to the subject matter herein and supersedes all prior discussions between us. No modification of or amendment to this Agreement, nor any waiver of any rights under this agreement, will be effective unless in writing signed by the party to be charged. Any subsequent change or changes in my duties, salary or compensation will not affect the validity or scope of this Agreement.

(c) **Severability.** If one or more of the provisions in this Agreement are deemed void by law, then the remaining provisions will continue in full force and effect.

(d) **Successors and Assigns.** This Agreement will be binding upon my heirs, executors, administrators and other legal representatives and will be for the benefit of the Company, its successors, and its assigns.

11. **Representations.** I acknowledge and agree as follows:

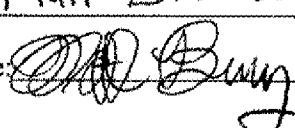
(a) I am executing this Agreement voluntarily and without any duress or undue influence by the Company or anyone else; and

(b) I have carefully read this Agreement. I have asked any questions needed for me to understand the terms, consequences and binding effect of this Agreement and fully understand them; and

(c) I sought the advice of an attorney of my choice if I so desired before signing this Agreement.

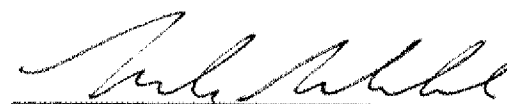
(d) I UNDERSTAND THAT THIS AGREEMENT IS EFFECTIVE AS OF THE DATE MY EMPLOYMENT WITH THE COMPANY FIRST COMMENCED OR WILL COMMENCE. If I am an existing employee of the Company, I acknowledge that this Agreement is intended to formalize in writing certain understandings and procedures which were agreed to and have been in effect since the time I was initially employed by the Company

**EMPLOYEE:**

Name: Matt Bromberg  
Signature: 

Date: \_\_\_\_\_

**BRN Phoenix, Inc.:**

By: 

Title: VP *adm*/COO

Date: 14 July 2006

EXHIBIT A

LIST OF PRIOR INVENTIONS  
AND ORIGINAL WORKS OF AUTHORSHIP

<u>Title</u>	<u>Date</u>	<u>Identifying Number or Brief Description</u>
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see attached

       No inventions or improvements

  2   Additional Sheets Attached

Signature of Employee: Matthew Bunker

Print Name of Employee: Matthew Bunker

Date: 7/10/06

**EXHIBIT B**

**CALIFORNIA LABOR CODE SECTION 2870  
INVENTION ON OWN TIME – EXEMPTION FROM AGREEMENT**

"(a) Any provision in an employment agreement which provides that an employee shall assign, or offer to assign, any of his or her rights in an invention to his or her employer shall not apply to an invention that the employee developed entirely on his or her own time without using the employer's equipment, supplies, facilities, or trade secret information except for those inventions that either:

(1) Relate at the time of conception or reduction to practice of the invention to the employer's business, or actual or demonstrably anticipated research or development of the employer; or

(2) Result from any work performed by the employee for the employer.

(b) To the extent a provision in an employment agreement purports to require an employee to assign an invention otherwise excluded from being required to be assigned under subdivision (a), the provision is against the public policy of this state and is unenforceable."



**EXHIBIT C**

**BRN Phoenix, Inc.**

**TERMINATION CERTIFICATION**

This is to certify that I do not have in my possession, nor have I failed to return, any devices, records, data, notes, reports, proposals, lists, correspondence, specifications, drawings, blueprints, sketches, materials, equipment, other documents or property, or reproductions of any aforementioned items belonging to BRN Phoenix, Inc., its subsidiaries, affiliates, successors or assigns (together, the "Company").

I further certify that I have complied with all the terms of the Company's Employment, Confidential Information and Invention Assignment Agreement signed by me, including the reporting of any inventions and original works of authorship (as defined therein), conceived or made by me (solely or jointly with others) covered by that agreement.

I further agree that, in compliance with the Employment, Confidential Information and Invention Assignment Agreement, I will preserve as confidential all trade secrets, confidential knowledge, data or other proprietary information relating to products, processes, know-how, designs, formulas, developmental or experimental work, computer programs, data bases, other original works of authorship, customer lists, business plans, financial information or other subject matter pertaining to any business of the Company or any of its employees, clients, consultants or licensees.

I further agree that for twelve (12) months from this date, I will not hire any employees of the Company and I will not solicit, induce, recruit or encourage any of the Company's employees to leave their employment.

Date: \_\_\_\_\_

\_\_\_\_\_  
(Employee's Signature)

\_\_\_\_\_  
(Type/Print Employee's Name)

## **EXHIBIT D**

### **BRN Phoenix, Inc.**

#### **CONFLICT OF INTEREST GUIDELINES**

It is the policy of BRN Phoenix, Inc. to conduct its affairs in strict compliance with the letter and spirit of the law and to adhere to the highest principles of business ethics. Accordingly, all officers, employees and independent contractors must avoid activities which are in conflict, or give the appearance of being in conflict, with these principles and with the interests of the Company. The following are potentially compromising situations which must be avoided. Before engaging in any of the following activities, you must disclose the proposed activity to the President and receive the written approval of the President.

1. Revealing confidential information to outsiders or misusing confidential information. Unauthorized divulging of information is a violation of this policy whether or not for personal gain and whether or not harm to the Company is intended. (The Employment, Confidential Information and Invention Assignment Agreement elaborates on this principle and is a binding agreement.)
2. Accepting or offering substantial gifts, excessive entertainment, favors or payments which may be deemed to constitute undue influence or otherwise be improper or embarrassing to the Company.
3. Participating in civic or professional organizations that might involve divulging confidential information of the Company.
4. Initiating or approving any form of harassment of employees.
5. Investing or holding outside directorship in suppliers, customers, or competing companies, including financial speculations, where such investment or directorship might influence in any manner a decision or course of action of the Company.
6. Borrowing from or lending to employees, customers or suppliers.
7. Acquiring real estate of interest to the Company.
8. Improperly using or disclosing to the Company any proprietary information or trade secrets of any former or concurrent employer or other person or entity with whom obligations of confidentiality exist.
9. Unlawfully discussing prices, costs, customers, sales or markets with competing companies or their employees.
10. Making any unlawful agreement with distributors with respect to prices.
11. Improperly using or authorizing the use of any inventions which are the subject of patent claims of any other person or entity.
12. Engaging in any conduct which is not in the best interest of the Company.

Each officer, employee and independent contractor must take every necessary action to ensure compliance with these guidelines and to bring problem areas to the attention of higher management for review. Violations of this conflict of interest policy may result in discharge without warning.

## **Appendix A: Prior Intellectual Property**

Techniques for variable bit rate adaptive and/or optimized CODECs.

Bayesian estimation of receiver parameters and/or the use of MCMC integration techniques.

Bayesian estimation of time/freq. offsets and tracking using MCMC integration.

Bayesian estimation of position parameters, timing offsets or Doppler for localization or for GPS receivers.

GPS tracking devices using Bayesian estimation and Markoff Chain Monte Carlo integration (MCMC).

GPS, frequency estimation or time offset estimation using joint maximum likelihood techniques.

Globally optimal design techniques or parameter optimization using linear lower bounding techniques.

Globally optimal design using Wiener processes, modeling differentiable function and/or modeling N-dimensional functions.

Globally optimal design using statistical branch and bound techniques.

Network power control using LEGO (locally enabled globally optimal) techniques.

Optimal beamforming and power management of information theoretic metrics (e.g. mutual information) for wireless networks. Especially techniques that exploit channel reciprocity.

Exploitation of user added MIMO channels for network enhancement and optimization. (e.g. remotes connected to multiple basestations.)

Techniques for transmit/receive compensation using remotes or beacons already in the network.

Digital trie techniques for encapsulating sets of integers or arbitrary bit sequences.

Iterative techniques for performing general string matching or string hashing.

Techniques for the decomposition of state machines into elementary machines.

Techniques for optimizing trees or graphs for improving compiler performance.

Scripting/programming languages based on lexically 'smart' macros.

The MacroFlow language and it's successors or derivatives.

Bindings of BLAS/LAPACK to the MacroFlow language or it's derivatives.

Graphical state machine input to the MacroFlow language or it's derivatives.

Cross application of global optimization techniques to engineering design problems, from industrial engineering to RF design.

Using algebraic extensions to integers or complex Gaussian integers to approximate floating point operations.

Using algebraic extensions to enable fast parallel multiplication and other floating point operations.

Using parallel or cascaded state decompositions to parallelize or speed up floating point operations.

Techniques for modeling electrodynamic systems using Gauss-Weber electrodynamics.

Techniques for Multi-user detection using large numbers of overlapped BPSK or QPSK waveforms.

Blind QAM beamforming and demodulation schemes.