

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY AGREEMENT
<b>CONVEYING PARTY DATA</b>	
Name	Execution Date
CROWLEY-DAVIS RESEARCH, INC.	10/08/2009
<b>RECEIVING PARTY DATA</b>	
Name:	ZIONS FIRST NATIONAL BANK
Street Address:	890 MAIN STREET
Internal Address:	BOISE/9TH & MAIN OFFICE
City:	BOISE
State/Country:	IDAHO
Postal Code:	83702
<b>PROPERTY NUMBERS Total: 4</b>	
Property Type	Number
Application Number:	10289601
Application Number:	10289555
Application Number:	09393407
Application Number:	11234413
<b>CORRESPONDENCE DATA</b>	
Fax Number:	(801)328-1707
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	8015339800
Email:	kjackman@wnlaw.com
Correspondent Name:	WORKMAN NYDEGGER
Address Line 1:	60 East South Temple
Address Line 2:	1000 Eagle Gate Tower
Address Line 4:	Salt Lake City, UTAH 84111
ATTORNEY DOCKET NUMBER:	07905.32
NAME OF SUBMITTER:	Fraser D. Roy

OP \$160.00 10289601

**500996831**

**PATENT**  
**REEL: 023417 FRAME: 0817**

**Total Attachments: 9**

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### COMMERCIAL SECURITY AGREEMENT

Principal	Loan Date	Maturity	Loan No	Call / Coll	Account	Officer	Initials
\$500,000.00	10-08-2009	10-08-2017	9901	620452 / 8000	1401076	36054	

References in the boxes above are for Lender's use only and do not limit the applicability of this document to any particular loan or item.  
Any item above containing "\*\*\*\*\*" has been omitted due to text length limitations.

**Grantor:** CROWLEY-DAVIS RESEARCH, INC.  
280 S ACADEMY AVE, SUITE 120  
EAGLE, ID 83616

**Lender:** ZIONS FIRST NATIONAL BANK  
BOISE/9TH & MAIN OFFICE  
890 MAIN STREET  
BOISE, ID 83702

THIS COMMERCIAL SECURITY AGREEMENT dated October 8, 2009, is made and executed between CROWLEY-DAVIS RESEARCH, INC. ("Grantor") and ZIONS FIRST NATIONAL BANK ("Lender").

**GRANT OF SECURITY INTEREST.** For valuable consideration, Grantor grants to Lender a security interest in the Collateral to secure the indebtedness and agrees that Lender shall have the rights stated in this Agreement with respect to the Collateral, in addition to all other rights which Lender may have by law.

**COLLATERAL DESCRIPTION.** The word "Collateral" as used in this Agreement means the following described property, whether now owned or hereafter acquired, whether now existing or hereafter arising, and wherever located, in which Grantor is giving to Lender a security interest for the payment of the indebtedness and performance of all other obligations under the Note and this Agreement:

All General Intangibles (as defined in the Idaho Uniform Commercial Code - Secured Transactions, Idaho Code Ann. §§ 28-9-101, et seq.) comprising certain intellectual property of Grantor as set forth in Schedule A, including: (a) All patents, patent applications, and like protection, including, without limitation, improvements, diversions, continuations, renewals, reissues and extensions thereof now existing or hereafter filed, issued, or acquired (the "Patents"); (b) All rights of action on account of past, present and future unauthorized use or infringement of any of said Patents; (c) All income, royalties, damages, and payments relating to the Patents, now or hereafter due and/or payable, including, without limitation, damages and payments for past or future infringement of any rights conveyed hereunder; (d) All foreign rights corresponding to the above described rights, including, without limitation, those available by treaty and reciprocity; (e) All of the proceeds and products of any of the foregoing (the assets enumerated in subparagraphs (a) through (e) being hereinafter collectively referred to as the "Intellectual Property Assets")

In addition, the word "Collateral" also includes all the following, whether now owned or hereafter acquired, whether now existing or hereafter arising, and wherever located:

- (A) All accessions, attachments, accessories, replacements of and additions to any of the collateral described herein, whether added now or later.
- (B) All products and produce of any of the property described in this Collateral section.
- (C) All accounts, general intangibles, instruments, rents, monies, payments, and all other rights, arising out of a sale, lease, consignment or other disposition of any of the property described in this Collateral section.
- (D) All proceeds (including insurance proceeds) from the sale, destruction, loss, or other disposition of any of the property described in this Collateral section, and sums due from a third party who has damaged or destroyed the Collateral or from that party's insurer, whether due to judgment, settlement or other process.
- (E) All records and data relating to any of the property described in this Collateral section, whether in the form of a writing, photograph, microfilm, microfiche, or electronic media, together with all of Grantor's right, title, and interest in and to all computer software required to utilize, create, maintain, and process any such records or data on electronic media.

**CROSS-COLLATERALIZATION.** In addition to the Note, this Agreement secures all obligations, debts and liabilities, plus interest thereon, of Grantor to Lender, or any one or more of them, as well as all claims by Lender against Grantor or any one or more of them, whether now existing or hereafter arising, whether related or unrelated to the purpose of the Note, whether voluntary or otherwise, whether due or not due, direct or indirect, determined or undetermined, absolute or contingent, liquidated or unliquidated, whether Grantor may be liable individually or jointly with others, whether obligated as guarantor, surety, accommodation party or otherwise, and whether recovery upon such amounts may be or hereafter may become barred by any statute of limitations, and whether the obligation to repay such amounts may be or hereafter may become otherwise unenforceable.

**GRANTOR'S REPRESENTATIONS AND WARRANTIES WITH RESPECT TO THE COLLATERAL.** With respect to the Collateral, Grantor represents and promises to Lender that:

**Perfection of Security Interest.** Grantor agrees to take whatever actions are requested by Lender to perfect and continue Lender's security interest in the Collateral. Upon request of Lender, Grantor will deliver to Lender any and all of the documents evidencing or constituting the Collateral, and Grantor will note Lender's interest upon any and all chattel paper and instruments if not delivered to Lender for possession by Lender. This is a continuing Security Agreement and will continue in effect even though all or any part of the indebtedness is paid in full and even though for a period of time Grantor may not be indebted to Lender.

**Notices to Lender.** Grantor will promptly notify Lender in writing at Lender's address shown above (or such other addresses as Lender may designate from time to time) prior to any (1) change in Grantor's name; (2) change in Grantor's assumed business name(s); (3) change in the management of the Corporation Grantor; (4) change in the authorized signer(s); (5) change in Grantor's principal office address; (6) change in Grantor's state of organization; (7) conversion of Grantor to a new or different type of business entity; or (8) change in any other aspect of Grantor that directly or indirectly relates to any agreements between Grantor and Lender. No change in Grantor's name or state of organization will take effect until after Lender has received notice.

**No Violation.** The execution and delivery of this Agreement will not violate any law or agreement governing Grantor or to which Grantor is a party, and its certificate or articles of incorporation and bylaws do not prohibit any term or condition of this Agreement.

**COMMERCIAL SECURITY AGREEMENT  
(Continued)**

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**Enforceability of Collateral.** To the extent the Collateral consists of accounts, chattel paper, or general intangibles, as defined by the Uniform Commercial Code, the Collateral is enforceable in accordance with its terms, is genuine, and fully complies with all applicable laws and regulations concerning form, content and manner of preparation and execution, and all persons appearing to be obligated on the Collateral have authority and capacity to contract and are in fact obligated as they appear to be on the Collateral. There shall be no setoffs or counterclaims against any of the Collateral, and no agreement shall have been made under which any deductions or discounts may be claimed concerning the Collateral except those disclosed to Lender in writing.

**Location of the Collateral.** Except in the ordinary course of Grantor's business, Grantor agrees to keep the Collateral (or to the extent the Collateral consists of intangible property such as accounts or general intangibles, the records concerning the Collateral) at Grantor's address shown above or at such other locations as are acceptable to Lender. Upon Lender's request, Grantor will deliver to Lender in form satisfactory to Lender a schedule of real properties and Collateral locations relating to Grantor's operations, including without limitation the following: (1) all real property Grantor owns or is purchasing; (2) all real property Grantor is renting or leasing; (3) all storage facilities Grantor owns, rents, leases, or uses; and (4) all other properties where Collateral is or may be located.

**Removal of the Collateral.** Except in the ordinary course of Grantor's business, Grantor shall not remove the Collateral from its existing location without Lender's prior written consent. Grantor shall, whenever requested, advise Lender of the exact location of the Collateral.

**Transactions Involving Collateral.** Except for inventory sold or accounts collected in the ordinary course of Grantor's business, or as otherwise provided for in this Agreement, Grantor shall not sell, offer to sell, or otherwise transfer or dispose of the Collateral. Grantor shall not pledge, mortgage, encumber or otherwise permit the Collateral to be subject to any lien, security interest, encumbrance, or charge, other than the security interest provided for in this Agreement, without the prior written consent of Lender. This includes security interests even if junior in right to the security interests granted under this Agreement. Unless waived by Lender, all proceeds from any disposition of the Collateral (for whatever reason) shall be held in trust for Lender and shall not be commingled with any other funds; provided however, this requirement shall not constitute consent by Lender to any sale or other disposition. Upon receipt, Grantor shall immediately deliver any such proceeds to Lender.

**Title.** Grantor represents and warrants to Lender that Grantor holds good and marketable title to the Collateral, free and clear of all liens and encumbrances except for the lien of this Agreement. No financing statement covering any of the Collateral is on file in any public office other than those which reflect the security interest created by this Agreement or to which Lender has specifically consented. Grantor shall defend Lender's rights in the Collateral against the claims and demands of all other persons.

**Repairs and Maintenance.** Grantor agrees to keep and maintain, and to cause others to keep and maintain, the Collateral in good order, repair and condition at all times while this Agreement remains in effect. Grantor further agrees to pay when due all claims for work done on, or services rendered or material furnished in connection with the Collateral so that no lien or encumbrance may ever attach to or be filed against the Collateral.

**Inspection of Collateral.** Lender and Lender's designated representatives and agents shall have the right at all reasonable times to examine and inspect the Collateral wherever located.

**Taxes, Assessments and Liens.** Grantor will pay when due all taxes, assessments and liens upon the Collateral, its use or operation, upon this Agreement, upon any promissory note or notes evidencing the indebtedness, or upon any of the other Related Documents. Grantor may withhold any such payment or may elect to contest any lien if Grantor is in good faith conducting an appropriate proceeding to contest the obligation to pay and so long as Lender's interest in the Collateral is not jeopardized in Lender's sole opinion. If the Collateral is subjected to a lien which is not discharged within fifteen (15) days, Grantor shall deposit with Lender cash, a sufficient corporate surety bond or other security satisfactory to Lender in an amount adequate to provide for the discharge of the lien plus any interest, costs, reasonable attorneys' fees or other charges that could accrue as a result of foreclosure or sale of the Collateral. In any contest Grantor shall defend itself and Lender and shall satisfy any final adverse judgment before enforcement against the Collateral. Grantor shall name Lender as an additional obligee under any surety bond furnished in the contest proceedings. Grantor further agrees to furnish Lender with evidence that such taxes, assessments, and governmental and other charges have been paid in full and in a timely manner. Grantor may withhold any such payment or may elect to contest any lien if Grantor is in good faith conducting an appropriate proceeding to contest the obligation to pay and so long as Lender's interest in the Collateral is not jeopardized.

**Compliance with Governmental Requirements.** Grantor shall comply promptly with all laws, ordinances, rules and regulations of all governmental authorities, now or hereafter in effect, applicable to the ownership, production, disposition, or use of the Collateral, including all laws or regulations relating to the undue erosion of highly-erodible land or relating to the conversion of wetlands for the production of an agricultural product or commodity. Grantor may contest in good faith any such law, ordinance or regulation and withhold compliance during any proceeding, including appropriate appeals, so long as Lender's interest in the Collateral, in Lender's opinion, is not jeopardized.

**Hazardous Substances.** Grantor represents and warrants that the Collateral never has been, and never will be so long as this Agreement remains a lien on the Collateral, used in violation of any Environmental Laws or for the generation, manufacture, storage, transportation, treatment, disposal, release or threatened release of any Hazardous Substance. The representations and warranties contained herein are based on Grantor's due diligence in investigating the Collateral for Hazardous Substances. Grantor hereby (1) releases and waives any future claims against Lender for indemnity or contribution in the event Grantor becomes liable for cleanup or other costs under any Environmental Laws, and (2) agrees to indemnify, defend, and hold harmless Lender against any and all claims and losses resulting from a breach of this provision of this Agreement. This obligation to indemnify and defend shall survive the payment of the indebtedness and the satisfaction of this Agreement.

**Maintenance of Casualty Insurance.** Grantor shall procure and maintain all risks insurance, including without limitation fire, theft and liability coverage together with such other insurance as Lender may require with respect to the Collateral, in form, amounts, coverages and basis reasonably acceptable to Lender and issued by a company or companies reasonably acceptable to Lender. Grantor, upon request of Lender, will deliver to Lender from time to time the policies or certificates of insurance in form satisfactory to Lender, including stipulations that coverages will not be cancelled or diminished without at least ten (10) days' prior written notice to Lender and not including any disclaimer of the insurer's liability for failure to give such a notice. Each insurance policy also shall include an endorsement providing that coverage in favor of Lender will not be impaired in any way by any act, omission or default of Grantor or any other person. In connection with all policies covering assets in which Lender holds or is offered a security interest, Grantor will provide Lender with such loss payable or other endorsements as Lender may require. If Grantor at any time fails to obtain or maintain any insurance as required under this Agreement, Lender may (but shall not be obligated to) obtain such insurance as Lender deems appropriate, including if Lender so chooses "single interest insurance," which will cover only Lender's interest in the Collateral.

**Application of Insurance Proceeds.** Grantor shall promptly notify Lender of any loss or damage to the Collateral, whether or not such casualty or loss is covered by insurance. Lender may make proof of loss if Grantor fails to do so within fifteen (15) days of the casualty. All proceeds of any insurance on the Collateral, including accrued proceeds thereon, shall be held by Lender as part of the Collateral. If Lender consents to repair or replacement of the damaged or destroyed Collateral, Lender shall, upon satisfactory proof of expenditure, pay or reimburse Grantor from the proceeds for the reasonable cost of repair or restoration. If Lender does not consent to repair or replacement

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of the Collateral, Lender shall retain a sufficient amount of the proceeds to pay all of the Indebtedness, and shall pay the balance to Grantor. Any proceeds which have not been disbursed within six (6) months after their receipt and which Grantor has not committed to the repair or restoration of the Collateral shall be used to prepay the Indebtedness.

**Insurance Reserves.** Lender may require Grantor to maintain with Lender reserves for payment of insurance premiums, which reserves shall be created by monthly payments from Grantor of a sum estimated by Lender to be sufficient to produce, at least fifteen (15) days before the premium due date, amounts at least equal to the insurance premiums to be paid. If fifteen (15) days before payment is due, the reserve funds are insufficient, Grantor shall upon demand pay any deficiency to Lender. The reserve funds shall be held by Lender as a general deposit and shall constitute a non-interest-bearing account which Lender may satisfy by payment of the insurance premiums required to be paid by Grantor as they become due. Lender does not hold the reserve funds in trust for Grantor, and Lender is not the agent of Grantor for payment of the insurance premiums required to be paid by Grantor. The responsibility for the payment of premiums shall remain Grantor's sole responsibility.

**Insurance Reports.** Grantor, upon request of Lender, shall furnish to Lender reports on each existing policy of insurance showing such information as Lender may reasonably request including the following: (1) the name of the insurer; (2) the risks insured; (3) the amount of the policy; (4) the property insured; (5) the then current value on the basis of which insurance has been obtained and the manner of determining that value; and (6) the expiration date of the policy. In addition, Grantor shall upon request by Lender (however not more often than annually) have an independent appraiser satisfactory to Lender determine, as applicable, the cash value or replacement cost of the Collateral.

**Financing Statements.** Grantor authorizes Lender to file a UCC financing statement, or alternatively, a copy of this Agreement to perfect Lender's security interest. At Lender's request, Grantor additionally agrees to sign all other documents that are necessary to perfect, protect, and continue Lender's security interest in the Property. Grantor will pay all filing fees, title transfer fees, and other fees and costs involved unless prohibited by law or unless Lender is required by law to pay such fees and costs. Grantor irrevocably appoints Lender to execute documents necessary to transfer title if there is a default. Lender may file a copy of this Agreement as a financing statement. If Grantor changes Grantor's name or address, or the name or address of any person granting a security interest under this Agreement changes, Grantor will promptly notify the Lender of such change.

**GRANTOR'S RIGHT TO POSSESSION.** Until default, Grantor may have possession of the tangible personal property and beneficial use of all the Collateral and may use it in any lawful manner not inconsistent with this Agreement or the Related Documents, provided that Grantor's right to possession and beneficial use shall not apply to any Collateral where possession of the Collateral by Lender is required by law to perfect Lender's security interest in such Collateral. If Lender at any time has possession of any Collateral, whether before or after an Event of Default, Lender shall be deemed to have exercised reasonable care in the custody and preservation of the Collateral if Lender takes such action for that purpose as Grantor shall request or as Lender, in Lender's sole discretion, shall deem appropriate under the circumstances, but failure to honor any request by Grantor shall not of itself be deemed to be a failure to exercise reasonable care. Lender shall not be required to take any steps necessary to preserve any rights in the Collateral against prior parties, nor to protect, preserve or maintain any security interest given to secure the Indebtedness.

**LENDER'S EXPENDITURES.** If any action or proceeding is commenced that would materially affect Lender's interest in the Collateral or if Grantor fails to comply with any provision of this Agreement or any Related Documents, including but not limited to Grantor's failure to discharge or pay when due any amounts Grantor is required to discharge or pay under this Agreement or any Related Documents, Lender on Grantor's behalf may (but shall not be obligated to) take any action that Lender deems appropriate, including but not limited to discharging or paying all taxes, liens, security interests, encumbrances and other claims, at any time levied or placed on the Collateral and paying all costs for insuring, maintaining and preserving the Collateral. All such expenditures incurred or paid by Lender for such purposes will then bear interest at the rate charged under the Note from the date incurred or paid by Lender to the date of repayment by Grantor. All such expenses will become a part of the Indebtedness and, at Lender's option, will (A) be payable on demand; (B) be added to the balance of the Note and be apportioned among and be payable with any installment payments to become due during either (1) the term of any applicable insurance policy; or (2) the remaining term of the Note; or (C) be treated as a balloon payment which will be due and payable at the Note's maturity. The Agreement also will secure payment of these amounts. Such right shall be in addition to all other rights and remedies to which Lender may be entitled upon Default.

**DEFAULT.** Each of the following shall constitute an Event of Default under this Agreement:

**Payment Default.** Grantor fails to make any payment when due under the Indebtedness.

**Other Defaults.** Grantor fails to comply with or to perform any other term, obligation, covenant or condition contained in this Agreement or in any of the Related Documents or to comply with or to perform any term, obligation, covenant or condition contained in any other agreement between Lender and Grantor.

**False Statements.** Any warranty, representation or statement made or furnished to Lender by Grantor or on Grantor's behalf under this Agreement or the Related Documents is false or misleading in any material respect, either now or at the time made or furnished or becomes false or misleading at any time thereafter.

**Defective Collateralization.** This Agreement or any of the Related Documents ceases to be in full force and effect (including failure of any collateral document to create a valid and perfected security interest or lien) at any time and for any reason.

**Insolvency.** The dissolution or termination of Grantor's existence as a going business, the insolvency of Grantor, the appointment of a receiver for any part of Grantor's property, any assignment for the benefit of creditors, any type of creditor workout, or the commencement of any proceeding under any bankruptcy or insolvency laws by or against Grantor.

**Creditor or Forfeiture Proceedings.** Commencement of foreclosure or forfeiture proceedings, whether by judicial proceeding, self-help, repossession or any other method, by any creditor of Grantor or by any governmental agency against any collateral securing the Indebtedness. This includes a garnishment of any of Grantor's accounts, including deposit accounts, with Lender. However, this Event of Default shall not apply if there is a good faith dispute by Grantor as to the validity or reasonableness of the claim which is the basis of the creditor or forfeiture proceeding and if Grantor gives Lender written notice of the creditor or forfeiture proceeding and deposits with Lender monies or a surety bond for the creditor or forfeiture proceeding, in an amount determined by Lender, in its sole discretion, as being an adequate reserve or bond for the dispute.

**Events Affecting Guarantor.** Any of the preceding events occurs with respect to any Guarantor of any of the Indebtedness or Guarantor dies or becomes incompetent or revokes or disputes the validity of, or liability under, any Guaranty of the Indebtedness.

**Adverse Change.** A material adverse change occurs in Grantor's financial condition, or Lender believes the prospect of payment or performance of the Indebtedness is impaired.

**Cure Provisions.** If any default, other than a default in payment is curable and if Grantor has not been given a notice of a breach of the same provision of this Agreement within the preceding twelve (12) months, it may be cured if Grantor, after Lender sends written notice to

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Grantor demanding cure of such default: (1) cures the default within fifteen (15) days; or (2) if the cure requires more than fifteen (15) days, immediately initiates steps which Lender deems in Lender's sole discretion to be sufficient to cure the default and thereafter continues and completes all reasonable and necessary steps sufficient to produce compliance as soon as reasonably practical.

**RIGHTS AND REMEDIES ON DEFAULT.** If an Event of Default occurs under this Agreement, at any time thereafter, Lender shall have all the rights of a secured party under the Idaho Uniform Commercial Code. In addition and without limitation, Lender may exercise any one or more of the following rights and remedies:

**Notice of Default.** In the Event of Default Lender shall execute or cause the Trustee to execute a written notice of such default and of Lender's election to cause the Property to be sold to satisfy the indebtedness, and shall cause such notice to be recorded in the office of the recorder of each county wherein the Real Property, or any part thereof, is situated.

**Accelerate Indebtedness.** Lender may declare the entire Indebtedness, including any prepayment penalty which Grantor would be required to pay, immediately due and payable, without notice of any kind to Grantor.

**Assemble Collateral.** Lender may require Grantor to deliver to Lender all or any portion of the Collateral and any and all certificates of title and other documents relating to the Collateral. Lender may require Grantor to assemble the Collateral and make it available to Lender at a place to be designated by Lender. Lender also shall have full power to enter upon the property of Grantor to take possession of and remove the Collateral. If the Collateral contains other goods not covered by this Agreement at the time of repossession, Grantor agrees Lender may take such other goods, provided that Lender makes reasonable efforts to return them to Grantor after repossession.

**Sell the Collateral.** Lender shall have full power to sell, lease, transfer, or otherwise deal with the Collateral or proceeds thereof in Lender's own name or that of Grantor. Lender may sell the Collateral at public auction or private sale. Unless the Collateral threatens to decline speedily in value or is of a type customarily sold on a recognized market, Lender will give Grantor, and other persons as required by law, reasonable notice of the time and place of any public sale, or the time after which any private sale or any other disposition of the Collateral is to be made. However, no notice need be provided to any person who, after Event of Default occurs, enters into and authenticates an agreement waiving that person's right to notification of sale. The requirements of reasonable notice shall be met if such notice is given at least ten (10) days before the time of the sale or disposition. All expenses relating to the disposition of the Collateral, including without limitation the expenses of retaking, holding, insuring, preparing for sale and selling the Collateral, shall become a part of the Indebtedness secured by this Agreement and shall be payable on demand, with interest at the Note rate from date of expenditure until repaid.

**Appoint Receiver.** Lender shall have the right to have a receiver appointed to take possession of all or any part of the Collateral, with the power to protect and preserve the Collateral, to operate the Collateral preceding foreclosure or sale, and to collect the Rents from the Collateral and apply the proceeds, over and above the cost of the receivership, against the Indebtedness. The receiver may serve without bond if permitted by law. Lender's right to the appointment of a receiver shall exist whether or not the apparent value of the Collateral exceeds the Indebtedness by a substantial amount. Employment by Lender shall not disqualify a person from serving as a receiver.

**Collect Revenues, Apply Accounts.** Lender, either itself or through a receiver, may collect the payments, rents, income, and revenues from the Collateral. Lender may at any time in Lender's discretion transfer any Collateral into Lender's own name or that of Lender's nominee and receive the payments, rents, income, and revenues therefrom and hold the same as security for the Indebtedness or apply it to payment of the Indebtedness in such order of preference as Lender may determine. Insofar as the Collateral consists of accounts, general intangibles, insurance policies, instruments, chattel paper, choses in action, or similar property, Lender may demand, collect, receipt for, settle, compromise, adjust, sue for, foreclose, or realize on the Collateral as Lender may determine, whether or not Indebtedness or Collateral is then due. For these purposes, Lender may, on behalf of and in the name of Grantor, receive, open and dispose of mail addressed to Grantor; change any address to which mail and payments are to be sent; and endorse notes, checks, drafts, money orders, documents of title, instruments and items pertaining to payment, shipment, or storage of any Collateral. To facilitate collection, Lender may notify account debtors and obligors on any Collateral to make payments directly to Lender.

**Obtain Deficiency.** If Lender chooses to sell any or all of the Collateral, Lender may obtain a judgment against Grantor for any deficiency remaining on the Indebtedness due to Lender after application of all amounts received from the exercise of the rights provided in this Agreement. Grantor shall be liable for a deficiency even if the transaction described in this subsection is a sale of accounts or chattel paper.

**Other Rights and Remedies.** Lender shall have all the rights and remedies of a secured creditor under the provisions of the Uniform Commercial Code, as may be amended from time to time. In addition, Lender shall have and may exercise any or all other rights and remedies it may have available at law, in equity, or otherwise.

**Election of Remedies.** Except as may be prohibited by applicable law, all of Lender's rights and remedies, whether evidenced by this Agreement, the Related Documents, or by any other writing, shall be cumulative and may be exercised singularly or concurrently. Election by Lender to pursue any remedy shall not exclude pursuit of any other remedy, and an election to make expenditures or to take action to perform an obligation of Grantor under this Agreement, after Grantor's failure to perform, shall not affect Lender's right to declare a default and exercise its remedies.

**SBA ENFORCEMENT.** "The loan secured by this lien was made under a United States Small Business Administration (SBA) nationwide program which uses tax dollars to assist small business owners. If the United States is seeking to enforce this document, then under SBA regulations:

a) When SBA is the holder of the Note, this document and all documents evidencing or securing this Loan will be construed in accordance with federal law.

b) Lender or SBA may use local or state procedures for purposes such as filing papers, recording documents, giving notice, foreclosing liens, and other purposes. By using these procedures, SBA does not waive any federal immunity from local or state control, penalty, tax or liability. No Borrower or Guarantor may claim or assert against SBA any local or state law to deny any obligation of Borrower, or defeat any claim of SBA with respect to this Loan.

Any clause in this document requiring arbitration is not enforceable when SBA is the holder of the Note secured by this instrument."

**PERFECTION OF SECURITY INTEREST.**

1.1 Grantor will promptly execute and deliver to Lender such further deeds, mortgages, assignments, security agreements or other instruments, documents, certificates and assurances and take such further action as Lender may from time to time in its sole discretion deem necessary to perfect, protect or enforce its security interest in the Collateral or otherwise to effectuate the intent of this Agreement.

1.2 Grantor authorizes Lender to file financing statements, continuation statements and amendments pursuant to the Uniform Commercial Code without Grantor's signature, in a form satisfactory to Lender. Grantor authorizes Lender to take all action which Lender may deem necessary or desirable to perfect or otherwise protect the liens and security interests created by this Agreement and to obtain the benefits of this Agreement, including without limitation, the right to record this security interest with the appropriate State and Federal governmental

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agencies.

**POWER OF ATTORNEY.**

1.1 Grantor appoints Lender, with full power of substitution, as Grantor's attorney-in-fact, with power, after the occurrence and during the continuance of any event of default to pay or discharge taxes, maintenance fees, liens or other encumbrances placed on or threatened against the Collateral; and, generally, to do at Lender's option and at Grantor's expense, at any time, all acts which Lender deems necessary to protect, preserve and realize upon the Collateral and Lender's security interest. This power of attorney shall be irrevocable for as long as any of the indebtedness incurred by Grantor under this Agreement are outstanding.

1.2 In the event an event of default has occurred and is continuing, Grantor will immediately upon receipt of all checks, drafts, cash or other remittances in payment for any Collateral sold, transferred, licensed or otherwise disposed of, deliver such remittances to Lender accompanied by a remittance report in a form approved by Lender. All such remittances shall be applied by Lender first to the indebtedness arising under the Note, then to the satisfaction of any other indebtedness of Grantor to Lender, or as otherwise required by applicable law.

**PAYMENT OF COSTS AND FEES RELATED TO PATENTS.**

1.1 Grantor shall at its own expense, to the extent Grantor deems it necessary, diligently file and prosecute all patent applications relating to the inventions described in Schedule A in the United States Patent and Trademark Office, and any foreign jurisdiction where a corresponding application is filed, pending, or granted, and shall pay or cause to be paid in their customary fashion all connected fees and disbursements, and shall not abandon any such application before the exhaustion of all administrative and judicial remedies or disclaim or dedicate any Collateral without the prior written consent of Lender. Grantor shall not abandon any Collateral without the prior written consent of Lender, which consent not to be unreasonably withheld.

1.2 Any and all fees, costs, and expenses, including reasonable attorneys' fees and expenses incurred by Lender in connection with the preparation, modification, enforcement, or termination of this Agreement and all other documents relating to this Agreement and to the consummation of this transaction, the filing and recording of any documents (including all taxes in that connection) in public offices, any taxes, counsel fees, maintenance fees, encumbrances, or costs otherwise incurred in defending or prosecuting any actions or proceedings arising out of or related to the Collateral, shall be paid by Grantor and, until paid, shall be added to the indebtedness.

1.3 Grantor further covenants that until all of the indebtedness have been satisfied in their entirety, Grantor will (a) not enter into any agreement, including without limitation, license agreements, which are inconsistent with Lender's undertakings and covenants under this Agreement or which may impair or restrict Lender's rights under this Agreement, and (b) will maintain the Collateral in full force and effect.

**MISCELLANEOUS PROVISIONS.** The following miscellaneous provisions are a part of this Agreement:

**Amendments.** This Agreement, together with any Related Documents, constitutes the entire understanding and agreement of the parties as to the matters set forth in this Agreement. No alteration of or amendment to this Agreement shall be effective unless given in writing and signed by the party or parties sought to be charged or bound by the alteration or amendment.

**Attorneys' Fees; Expenses.** Grantor agrees to pay upon demand all of Lender's costs and expenses, including Lender's reasonable attorneys' fees and Lender's legal expenses, incurred in connection with the enforcement of this Agreement. Lender may hire or pay someone else to help enforce this Agreement, and Grantor shall pay the costs and expenses of such enforcement. Costs and expenses include Lender's reasonable attorneys' fees and legal expenses whether or not there is a lawsuit, including reasonable attorneys' fees and legal expenses for bankruptcy proceedings (including efforts to modify or vacate any automatic stay or injunction), appeals, and any anticipated post-judgment collection services. Grantor also shall pay all court costs and such additional fees as may be directed by the court.

**Caption Headings.** Caption headings in this Agreement are for convenience purposes only and are not to be used to interpret or define the provisions of this Agreement.

**Applicable Law.** The Loan secured by this lien was made under a United States Small Business Administration (SBA) nationwide program which uses tax dollars to assist small business owners. If the United States is seeking to enforce this document, then under SBA regulations: (a) When SBA is the holder of the Note, this document and all documents evidencing or securing this Loan will be construed in accordance with federal law. (b) Lender or SBA may use local or state procedures for purposes such as filing papers, recording documents, giving notice, foreclosing liens, and other purposes. By using these procedures, SBA does not waive any federal immunity from local or state control, penalty, tax or liability. No Borrower or Guarantor may claim or assert against SBA any local or state law to deny any obligation of Borrower, or defeat any claim of SBA with respect to this Loan. Any clause in this document requiring arbitration is not enforceable when SBA is the holder of the Note secured by this instrument.

**Choice of Venue.** If there is a lawsuit, Grantor agrees upon Lender's request to submit to the jurisdiction of the courts of ADA County, State of Idaho.

**No Waiver by Lender.** Lender shall not be deemed to have waived any rights under this Agreement unless such waiver is given in writing and signed by Lender. No delay or omission on the part of Lender in exercising any right shall operate as a waiver of such right or any other right. A waiver by Lender of a provision of this Agreement shall not prejudice or constitute a waiver of Lender's right otherwise to demand strict compliance with that provision or any other provision of this Agreement. No prior waiver by Lender, nor any course of dealing between Lender and Grantor, shall constitute a waiver of any of Lender's rights or of any of Grantor's obligations as to any future transactions. Whenever the consent of Lender is required under this Agreement, the granting of such consent by Lender in any instance shall not constitute continuing consent to subsequent instances where such consent is required and in all cases such consent may be granted or withheld in the sole discretion of Lender.

**Notices.** Any notice required to be given under this Agreement shall be given in writing, and shall be effective when actually delivered, when actually received by telefacsimile (unless otherwise required by law), when deposited with a nationally recognized overnight courier, or, if mailed, when deposited in the United States mail, as first class, certified or registered mail postage prepaid, directed to the addresses shown near the beginning of this Agreement. Any party may change its address for notices under this Agreement by giving formal written notice to the other parties, specifying that the purpose of the notice is to change the party's address. For notice purposes, Grantor agrees to keep Lender informed at all times of Grantor's current address. Unless otherwise provided or required by law, if there is more than one Grantor, any notice given by Lender to any Grantor is deemed to be notice given to all Grantors.

**Power of Attorney.** Grantor hereby appoints Lender as Grantor's irrevocable attorney-in-fact for the purpose of executing any documents necessary to perfect, amend, or to continue the security interest granted in this Agreement or to demand termination of filings of other secured parties. Lender may at any time, and without further authorization from Grantor, file a carbon, photographic or other reproduction of any financing statement or of this Agreement for use as a financing statement. Grantor will reimburse Lender for all expenses for the

**COMMERCIAL SECURITY AGREEMENT  
(Continued)**

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perfection and the continuation of the perfection of Lender's security interest in the Collateral.

**Severability.** If a court of competent jurisdiction finds any provision of this Agreement to be illegal, invalid, or unenforceable as to any circumstance, that finding shall not make the offending provision illegal, invalid, or unenforceable as to any other circumstance. If feasible, the offending provision shall be considered modified so that it becomes legal, valid and enforceable. If the offending provision cannot be so modified, it shall be considered deleted from this Agreement. Unless otherwise required by law, the illegality, invalidity, or unenforceability of any provision of this Agreement shall not affect the legality, validity or enforceability of any other provision of this Agreement.

**Successors and Assigns.** Subject to any limitations stated in this Agreement on transfer of Grantor's interest, this Agreement shall be binding upon and inure to the benefit of the parties, their successors and assigns. If ownership of the Collateral becomes vested in a person other than Grantor, Lender, without notice to Grantor, may deal with Grantor's successors with reference to this Agreement and the indebtedness by way of forbearance or extension without releasing Grantor from the obligations of this Agreement or liability under the indebtedness.

**Survival of Representations and Warranties.** All representations, warranties, and agreements made by Grantor in this Agreement shall survive the execution and delivery of this Agreement, shall be continuing in nature, and shall remain in full force and effect until such time as Grantor's indebtedness shall be paid in full.

**Time is of the Essence.** Time is of the essence in the performance of this Agreement.

**DEFINITIONS.** The following capitalized words and terms shall have the following meanings when used in this Agreement. Unless specifically stated to the contrary, all references to dollar amounts shall mean amounts in lawful money of the United States of America. Words and terms used in the singular shall include the plural, and the plural shall include the singular, as the context may require. Words and terms not otherwise defined in this Agreement shall have the meanings attributed to such terms in the Uniform Commercial Code:

**Agreement.** The word "Agreement" means this Commercial Security Agreement, as this Commercial Security Agreement may be amended or modified from time to time, together with all exhibits and schedules attached to this Commercial Security Agreement from time to time.

**Borrower.** The word "Borrower" means CROWLEY-DAVIS RESEARCH, INC. and includes all co-signers and co-makers signing the Note and all their successors and assigns.

**Collateral.** The word "Collateral" means all of Grantor's right, title and interest in and to all the Collateral as described in the Collateral Description section of this Agreement.

**Default.** The word "Default" means the Default set forth in this Agreement in the section titled "Default".

**Environmental Laws.** The words "Environmental Laws" mean any and all state, federal and local statutes, regulations and ordinances relating to the protection of human health or the environment, including without limitation the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended, 42 U.S.C. Section 9601, et seq. ("CERCLA"), the Superfund Amendments and Reauthorization Act of 1986, Pub. L. No. 99-499 ("SARA"), the Hazardous Materials Transportation Act, 49 U.S.C. Section 1801, et seq., the Resource Conservation and Recovery Act, 42 U.S.C. Section 6901, et seq., or other applicable state or federal laws, rules, or regulations adopted pursuant thereto.

**Event of Default.** The words "Event of Default" mean any of the events of default set forth in this Agreement in the default section of this Agreement.

**Grantor.** The word "Grantor" means CROWLEY-DAVIS RESEARCH, INC..

**Guarantor.** The word "Guarantor" means any guarantor, surety, or accommodation party of any or all of the Indebtedness.

**Guaranty.** The word "Guaranty" means the guaranty from Guarantor to Lender, including without limitation a guaranty of all or part of the Note.

**Hazardous Substances.** The words "Hazardous Substances" mean materials that, because of their quantity, concentration or physical, chemical or infectious characteristics, may cause or pose a present or potential hazard to human health or the environment when improperly used, treated, stored, disposed of, generated, manufactured, transported or otherwise handled. The words "Hazardous Substances" are used in their very broadest sense and include without limitation any and all hazardous or toxic substances, materials or waste as defined by or listed under the Environmental Laws. The term "Hazardous Substances" also includes, without limitation, petroleum and petroleum by-products or any fraction thereof and asbestos.

**Indebtedness.** The word "Indebtedness" means and includes without limitation all Loans, together with all other obligations, debts and liabilities of Borrower to Lender, or any one or more of them, as well as all claims by Lender against Borrower, or any one or more of them; whether now or hereafter existing, voluntary or involuntary, due or not due, absolute or contingent, liquidated or unliquidated; whether Borrower may be liable individually or jointly with others; whether Borrower may be obligated as a guarantor, surety, or otherwise; whether recovery upon such indebtedness may be or hereafter may become barred by any statute of limitations; and whether such indebtedness may be or hereafter may become otherwise unenforceable.

**Lender.** The word "Lender" means ZIONS FIRST NATIONAL BANK, its successors and assigns.

**Note.** The word "Note" means the Note executed by CROWLEY-DAVIS RESEARCH, INC. in the principal amount of \$500,000.00 dated October 8, 2009, together with all renewals of, extensions of, modifications of, refinancings of, consolidations of, and substitutions for the note or credit agreement.

**Property.** The word "Property" means all of Grantor's right, title and interest in and to all the Property as described in the "Collateral Description" section of this Agreement.

**Real Property.** The words "Real Property" mean the real property, interests and rights, as further described in this Agreement.

**Related Documents.** The words "Related Documents" mean all promissory notes, credit agreements, loan agreements, environmental agreements, guaranties, security agreements, mortgages, deeds of trust, security deeds, collateral mortgages, and all other instruments, agreements and documents, whether now or hereafter existing, executed in connection with the Indebtedness.

**GRANTOR HAS READ AND UNDERSTOOD ALL THE PROVISIONS OF THIS COMMERCIAL SECURITY AGREEMENT AND AGREES TO ITS TERMS. THIS AGREEMENT IS DATED OCTOBER 8, 2009.**



COMMERCIAL SECURITY AGREEMENT  
(Continued)

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GRANTOR:

CROWLEY-DAVIS RESEARCH, INC.

By:   
WILLIAM CROWLEY, PRESIDENT of  
CROWLEY-DAVIS RESEARCH, INC.

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Schedule A

List of Intellectual Property:

<b>Patents</b>					
<b>Title</b>	<b>Serial No.</b>	<b>Filed</b>	<b>Reg. No.</b>	<b>Issued</b>	<b>Next Maintenance Fee Due Date</b>
Method for encoding the volumetric information of a virtual object and the retrieval of same	10/289,601	11/07/02	6,708,158	3/16/04	03/16/2011 (opens) 09/19/2011 (surcharge) 03/16/2012 (closes)
Method for encrypting and decrypting information using rule-based templates embedded with synthetic gene sequences	10/289,555	11/07/02	6,714,923	3/30/04	03/30/2011 (opens) 10/03/2011 (surcharge) 03/30/2012 (closes)
Information encoding and retrieval through synthetic genes	09/393,407	9/10/99	6,505,180	1/07/03	01/07/2010 (opens) 07/08/2010 (surcharge) 01/07/2011 (closes)
Method, system, and apparatus for virtual modeling of biological tissue with adaptive emergent functionality	11/234,413	09/23/05			
Method for encrypting and decrypting information using rule-based templates embedded with synthetic gene sequences	10/289,555	11/07/02			
Encoding of data and extraneous information into synthetic gene sequences and the retrieval of same	10/289,634	11/07/02			
Method for encoding the volumetric information of a virtual object and the retrieval of same	10/289,601	11/07/02			

Information Encoding and Retrieval Through Synthetic Genes	60/099713	09/10/98			
Employing Synthetic Genes in Genetic Algorithms, Information Encoding and Non-Replicative Encryption	PCT/US00/40826	05-Sep-00	WO 01/39004	N/A	
Employing Synthetic Genes In Genetic Algorithms, Information Encoding and Non-Replicative Encryption	AU 774228	05-Sep-00	AU 41338/01	30-Sep-04	
Information Encoding and Retrieval Through Synthetic Genes	CA 2384910	05-Sep-00	CA 2384910		
In The Genetic Algorithm, Information Coding And Non-Duplication Of Encryption Used In Synthetic Gene	CN 00812665.8	05-Sep-00			
Employing Synthetic Genes In Genetic Algorithms, Information Encoding And Non-Replicative Encryption	EP 00992117.2	05-Sep-00	EP 1242902		
Genetic Information Collected And Synthesized Encrypted	JP 2001-540598	05-Sep-00	JP 2003-517664		
Employing Synthetic Genes In Genetic Algorithms, Information Encoding And Non-Replicative Encryption	KR 1020027003113	05-Sep-00			