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Atty Ref/Docket No.: 2754.009US1	Patent and Trademark Office
To the Director of the U.S. Patent and Trademark Office: Plea	ase record the attached original documents or copy thereof.
	2. Name and address of receiving party(ies):
Name of conveying party(ics):	Name: Raven Industries, Inc.
Ron Abileah, Phillip A. Fox, Joseph W. Maresca	Street Address: PO Box 5107 City: Sioux Falls State: SD Zip: 57117-5107 Country: United States of America
Additional name(s) of conveying party(ies) attached?	
[]Yes [X]No	· · · · · · · · · · · · · · · · · · ·
3. Nature of conveyance:	Additional name(s) & address(es) attached? []Yes [X]No
[X] Assignment [] Merger [] Security Agreement[] Change of Name [] Other	
Execution Date: February 29, 2012, February 28, 2012, February 28, 2012	
A. Patent Application No.(s) Serial No. 13/317,099, filed October 7, 2011	B. Patent No.(s)
Additional numbers attached? []Yes [X]No	
	 Total number of applications and patents involved: <u>1</u>
Name and address of party to whom correspondence concerning document should be mailed:	7. Total fee (37 CFR 3.41):\$ <u>40.00</u>
Name: Joseph R. Williams	[]Enclosed
Address: Schwegman, Lundberg & Woessner, P.A. P.O. Box 2938 Minneapolis, MN 55402-0938	 [X]Authorized to be charged to deposit account 19-0743 8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743
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Signature

Total number of pages including cover sheet: 8

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Alexandria, VA 22313-1450

Joseph R. Williams/Reg. No. 69,054

Name of Person Signing

PATENT REEL: 027801 FRAME: 0858

March 1, 2012

Date

Attorney's Docket No. 089985-0399798

PATENT

ASSIGNMENT OF INVENTION

For good and valuable consideration, the receipt of which is hereby acknowledged

ASSIGNORS:

Ron Abileah 20 Tulip Lane San Carlos, CA 94070 Citizenship: USA

Phillip A. Fox 149 Hickory Street Hertford, NC 27944 Citizenship: USA

Joseph W. Maresca, Jr. 780 Fife Way Sumnyvale, California 99087 Citizenship: USA

hereby sell, assign and transfer to

ASSIGNEE:

Vista Research, Inc. 528 E. Weddell Drive, Suite 1 Sunnyvale, CA 94089 A California corporation

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the invention entitled:

DETECTION OF LOW OBSERVABLE OBJECTS IN CLUTTER USING NON-COHERENT **RADARS**

and which is found in U.S. Application Serial No. 13/317,099 filed on October 7, 2011, which claims the benefit of U.S. Provisional Patent Application Serial No. 61/404,748 filed October 7, 2010, and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Assignment of Invention page 1 of 2

PATENT REEL: 027801 FRAME: 0859 Date: 29 February 2012 , 2011

Date: ______, 2011

Date: 28 February 2012

Non Blikal

Ron Abileah

Phillip A. Fox

Joseph W. Maresca, Jr.

Assignment of Invention-page 2 of 2

Attorney Docket No. 2754.009US1 Client Ref. No. Vista Research

ASSIGNMENT

WHEREAS, We, Ron Abileah, residing at 20 Tulip Lane, San Carlos, CA 94070, and Phillip A. Fox, residing at 149 Hickory Street, Hertford, NC 27944, and Joseph W. Maresca Jr., residing at 780 Fife Way, Sunnyvale, CA 94087, made certain new and useful inventions and improvements which are described in an application for U.S. Letters Patent on October 7, 2011, which application was assigned U.S. patent application serial number 13/317,099, and is entitled <u>DETECTION OF LOW OBSERVABLE OBJECTS IN CLUTTER USING NON-COHERENT RADARS:</u>

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned do hereby:

SELL, ASSIGN AND TRANSFER to <u>Raven Industries</u>. Inc. (the "Assignee"), a corporation of the State of <u>South Dakota</u>, having a place of business at <u>PO Box 5107</u>, Sioux <u>Falls</u>. <u>SD 57117-5107</u>, the entire right, title and interest for the United States and all foreign countries in and to: any and all inventions and improvements which are disclosed in the identified application for U.S. Letters Patent, and which may be further identified below; such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries on any of such inventions and/or improvements (including any applications for utility models); all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such inventions and/or improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and to claim priority based on the identified application;

AUTHORIZE AND REQUEST that any attorney associated with U.S. PTO Customer No. 21186 may (directly or through his/her designee) delete, insert, or alter any information identifying this application, or any related application, below, after execution of this Assignment;

Additional Application Information

U.S. Provisional Application Serial No. 61/404,748, filed on October 7, 2010.

No U.S. Non-Provisional claim for priority is being made at this time.

No International or foreign claim for priority is being made at this time.

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

PATENT REEL: 027801 FRAME: 0861 ASSIGNMENT Client Ref. No. Vista Research

Scrial Number: 13/317,099

Docket No: 2754,009US1

Assignors: Ron Abileah et al.

Title: DETECTION OF LOW OBSERVABLE OBJECTS IN CLUTTER USING NON-COHERENT RADARS

Page 2 of 5

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and/or property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the undersigned will (1) execute all provisional, non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for such improvements; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such improvements in the Assignee, or for securing, maintaining and enforcing proper patent protection for such improvements;

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned, and is to extend to the benefit of the successors, assigns and nominees of the Assignee.

AGREED as of the date of my signature below:

PATENT REEL: 027801 FRAME: 0862

	Docket No; 2754,009US1
ASSIGNMENT Client Ref. No. Vistu Research Assignors: Ron Abileah et al. Litle: DETECTION OF LOW OBSERVABLE OBJECTS IN CLUTT. Page 3 of 5	Serial Number: 13/317,099 ER USING NON-COHERENT RADARS
uge 5 or 5	
Inventor: 1:	
(Signature):	
(Signature):Name: Ron Abileah	
Date:	
STATE OF CALIFORNIA)	
COUNTY OF	
On this, day of	, 2012 before me,
personall	ly appeared Ron Abileah, who proved to me on
the basis of satisfactory evidence to be the person	whose name is subscribed to the within
instrument and acknowledged to me that he execu	ited the same in his authorized capacity, and that
by his signature on the instrument the person, or the	he entity upon behalf of which the person acted,
executed the instrument.	
I certify under PENALTY OF PERJURY the foregoing paragraph is true and correct.	under the laws of the State of California that
WITNESS my hand and official seal.	
•	
[SEAL]	Notary Public
	Notary 1 abite

SCHWEGMAN, LUNDBERG, WOES

2007/009

03/01/12 17:20 FAX 6123393061

ASSIGNMENT

Client Ref. No. Vista Research

Docket No: 2754.009US1 Serial Number: 13/317,099

Assignors: Rob Abileah et al.

Assignors: Rob Abileah et al.

Title: DETECTION OF LOW OBSERVABLE OBJECTS IN CLUTTER USING NON-COHERENT RADARS

IN TESTIMONY WHEREOF, I have hereunto set my hand this 28 day of

On this 38 day of 3election, 20/2 before me personally appeared Phillip A. Fox. to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

Embossed Hereon Is My Commonwealth Of Virginia Notary Public Seal

My Commission Expires October 31, 2018 DIANA M. RANDALL

Notary Public

PATENT

REEL: 027801 FRAME: 0864

SCHWEGMAN, LUNDBERG, WOES

2009/009

PATENT REEL: 027801 FRAME: 0865

Notary Public

RECORDED: 03/01/2012

[SEAL]

03/01/12 17:20 FAX 6123393061