# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5154559

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
AHMED OSMAN EL-RAYIS	07/11/2018
NAKUL HARIDAS	07/03/2018
TUGHRUL SATI ARSLAN	07/03/2018

## **RECEIVING PARTY DATA**

Name:	SOFANT TECHNOLOGIES LTD
Street Address:	125 PRINCES STREET
Internal Address:	5TH FLOOR
City:	EDINBURGH
State/Country:	UNITED KINGDOM
Postal Code:	EH2 4AD

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16065297

## **CORRESPONDENCE DATA**

**Fax Number:** (703)816-4100

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.

**Phone:** 703-816-4044

Email:dmw@nixonvan.comCorrespondent Name:RAYMOND Y. MAHAddress Line 1:901 N. GLEBE ROAD

Address Line 2: 11TH FLOOR

Address Line 4: ARLINGTON, VIRGINIA 22203

ATTORNEY DOCKET NUMBER:	RYM-4851-228
NAME OF SUBMITTER:	RAYMOND Y. MAH
SIGNATURE:	/Raymond Y. Mah/
DATE SIGNED:	09/24/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

**Total Attachments: 3** 

PATENT REEL: 046949 FRAME: 0423

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PATENT REEL: 046949 FRAME: 0424

Document Description: Oath or declaration filed	Alle and the Control of the Control
	Attorney Docket Number RYM-4851-228
	First Named Inventor EL-RAYIS, Ahmed Osman
INVENTOR'S DECLARATION AND ASSIGNMENT FO	R UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) ON DATA SHEET (37 CFR 1.76)
Declaration Submitted With Initial Filing	DIA DULL GILLE (OL DILLCINO)
OR	
☐ Declaration Submitted After Initial Filing (surcharge (	37 C.F.R. § 1.16(1)) required)
METHOD AND STEER	ABLE ANTENNA APPARATUS
(Title	of the Invention)
As a below named inventor, I hereby declare that:	
This declaration is directed to:	
☐ the attached application, or ☐ United States Application Number 16/065,297 filed J	uno 22, 2018 or
☐ United States Application Number 16/065,297 filed J☐ PCT International application number filed on	
Francis Control of Con	
The above-identified application was made or authorized to be	
I believe I am the original inventor or an original joint inventor of	if a claimed invention in the application.
I hereby acknowledge that any willful false statement made in t by fine or imprisonment of not more than five (5) years, or both	this declaration is punishable under 18 U.S.C. 1001
WHEREAS, the undersigned (hereinafter ASSIGNOR), has ma	ade an invention in the Application identified above.
WHEREAS, SOFANT TECHNOLOGIES LTD (hereinafter ASS 125 Princes Street, Edinburgh, United Kingdom, EH2 4AD, is of the control of	SIGNEE), an entity, having an office and place of business at 5th Floor, desirous of acquiring an interest therein:
of which are hereby acknowledged, the said ASSIGNOR by the ASSIGNEE, its successors, assigns, and legal representatives America and all foreign countries, in and to the invention as desubsequent applications based thereon including any and all call resulting patents, together with the right of priority under the American Convention Relating to Patents, Designs and Indust States of America adheres, and the ASSIGNOR hereby authorated the ASSIGNOR hereby authorated the ASSIGNEE for its interest as ASSIGNEE.	and/or other good and valuable consideration, the receipt and sufficiency ese presents hereby sells, assigns, and transfers unto the said a ASSIGNOR'S entire right, title and interest in the United States of escribed in the aforesaid application, and to the said application and to all continuations, divisions, reissues, and substitutes of said application, and international Convention for the Protection of Industrial Property, Interrial Models, and any other international agreements to which the United rizes and requests the Commissioner of Patents and Trademarks to issue E, its successors, assigns, and legal representatives. It is understood and have represented only ASSIGNEE and will continue to represent only
of or related to the said invention;	ny improvements, and applications for patents based thereon, growing out
to ASSIGNEE'S full protection and title in and to the invention	IEE, its successors, assigns, and legal representatives, deemed essential hereby transferred; and
ASSIGNOR hereby agrees, upon request of ASSIGNEE, and ASSIGNEE, for the filing and granting of foreign applications a	without further remuneration, to execute any and all papers desired by and the perfecting of title thereto in ASSIGNEE.
AGREED and executed as noted below:	
LEGAL NAME OF INVENTOR/JOINT INVENTOR:	or Surnama)
(E.g., Given Name (first and middle (if any)) and Family Name Ahmed Osman	EL-RAYIS
Ahmed Osman Inventor's Signature:	Date: 11/7/2018
11.11.17.12.11	11/7/0010

I/We acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR §1.56.

1(fagury 2018

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Document Description: Gath or decisration filed	Altomey Docket Number	RVM-4851-228
	First Named Inventor	EL-RAYIS, Ahmed Osman
INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITUSING AN APPLICATION DATA  Declaration Submitted With Initial Filing  OR  Declaration Submitted After Initial Filing (surcharge (37 C.F.R.)	A SHEET (37 CFR 1.76)	*): 16.50 - 18.00 - 18.00 - 18.00 - 18.00 - 18.00 - 18.00 - 18.00 - 18.00 - 18.00 - 18.00 - 18.00 - 18.00 - 18
METHOD AND STEERABLE AT	ITENNA APPARATUS	
The 28 the 1886	1800)	on consumination of the construction of the co
As a below named inventor, I hereby declare that:		
This declaration is directed to:  I the attached application, or  United States Application Number 16/065,297 filed June 22, 2  PCT International application number filed on	018, or	
The above-identified application was made or suthorized to be made by r	***	
I believe I am the original inventor or an original part inventor of a claimer	finvertion in the application	
I hereby acknowledge that any willful false statement made in this declaraby line or imprisonment of not more than five (5) years, or both.	dion is punishable onder 18 i	J.S.G. 1001
WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an inve		
WHEREAS, SOFANT TECHNOLOGIES LTD (herematter ASSIGNEE), a 125 Princes Street, Edinburgh, United Kingdom, EH2 4AD, is destroise of		
NOW, THEREFORE in consideration of Ten Dickers (\$10.00) end/or other of which are hereby acknowledged, the said ASSIGNOR by these present ASSIGNEE its successors, assigns, and legal representatives. ASSIGNOR America and all foreign countries, in and to the invention as described in the subsequent applications based thereon including any and all continuation all resulting patents, together with the right of priority under the Internation American Convention Relating to Patents, Designs and Industrial Models States of America authorises, and the ASSIGNOR hereby authorizes and resald Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its auccessgread that ASSIGNEE's altomays Nixon & Vanderbye P.C. have represent ASSIGNEE with respect to this invention.	ts hereby sells, assigns, and DR'S entire right, title and into the aforessed application, end a divisions, reissues, and au rai Convention for the Protect and any other international quests the Commissioner of sacrs, assigns, and legal fer entired only ASSIGNEE and v	transfers unto the said treat in the United States of I to the said application and to all institutes of said application, and tone of Industrial Property, Inter-agreements to which the United Platents and Trademarks to issue seem tables. It is understood and all continue to represent only
ASSIGNOR hereby agrees to transfer a like interest upon request of said representatives, and without further remuneration, in and to any improven of or related to the said inventor.		

ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its successors, essigns, and legal representatives, deemed essential to ASSIGNEES full protection and title in and to the invention hereby transferred, and

ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

# AGREED and executed as noted below:

Lander and systems is united history	
Legal Name of Additional Joint Inventor, if any:  (E.g., Given Name (first and middle (if sny)) and Family Name or Sumaine)	
Nakul	HARIDAS
Inventor's Signature:	3/7/2015
Witnessed by: Name	9000 2018
Squature of winess Could William	(All the second

Wire action whedge the duty to disclose information which is material to the parentability of this application as defined in 37 CFR §1.56.

Doc code: Oath

Document Description: Oath or declaration filed

	Altomay Docket Number	F7844351278
	First Named Inventor	
INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) USING AN APPLICATION DATA SHEET (37 CFR 1.76)		
Declaration Submitted With Initial Filing OR		
Declaration Submitted After Initial Filing (surcharge (37 C.F.R. §	1.16(f)) required)	
METHOD AND STEERABLE ANT	ENNA APPARATUS	
(The M he had		
As a below named inventor, I hereby declare that:		
This declaration is directed to:		
☐ the attached application, or ☐ United States Application Number 15/065/297 filed June 22, 201	0	
PCT International application number filed on	%	
The above-identified application was made or authorized to be made by me		
I believe I am the original inventor or an original joint inventor of a claimed in	V *	
I hereby acknowledge that any willful faise statement made in this declaration by fine or imprisonment of not more than five (5) years, or both.	on is punishable under (5 U.	5.44.309 h
WHEREAS, the undersigned (herainafter ASSIGNOR), has made an invent	on to the Application Identifi	og stroke
WHEREAS, SOFANT TECHNOLOGIES LTD (hereinafter ASSIGNEE) and a 125 Princes Street, Edinburgh, United Kingdom, EH2 4AD, is desirous of ac	entity, he ving an office and p quiring an interest therein,	lace of business at 5th Floor,
NOW THEREFORE in consideration of Ten Deliars (\$10.00) and/or other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells: assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives. ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the afcressed application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of prighty under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the ASSIGNOR fierably authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE systems as Vandemys P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to the invention.		
ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remunoration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention.		
ASSIGNOR hereby agrees to execute any papers by ASSIGNEE. Its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and		
ASSIGNOR hereby agrices, upon request of ASSIGNEE, and without further ASSIGNEE, for the filing and granting of foreign applications and the perfect	remuneration, to execute en ing of little thereto in ASSIGN	ry and all papers desired by IEE
AGREED and executed as noted below:		
Legal Name of Additional Joint Inventor, if any:		
(E.g., Given Name (first and middle (if any)) and Family Name or Sumame).  Tughnal	\$ #9.2% F & \$ \$	
Toghnal Sag Inventor's Signature: 4	ARSLAN I Date	
THE STATE OF THE S		7 · 7 · · · · · · · · · · · · · · · · ·
Name Tay Wither		
Signature of witness 7 3/ 5	1000 2((	7.74 1 32 m

I/We addressledge the duty to disclose information which is material to the patentiality of this application as defined in 37 CFR §1.56.

PATENT REEL: 046949 FRAME: 0427

RECORDED: 09/24/2018