

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3683962

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	SECURITY INTEREST	
CONVEYING PARTY DATA		
Name		Execution Date
DIGITAL SIGNAL CORPORATION		12/21/2015
RECEIVING PARTY DATA		
Name:	HORIZON TECHNOLOGY FINANCE CORPORATION	
Street Address:	312 FARMINGTON AVENUE	
City:	FARMINGTON	
State/Country:	CONNECTICUT	
Postal Code:	06032	
PROPERTY NUMBERS Total: 53		
Property Type	Number	
Patent Number:	7507203	
Patent Number:	7511824	
Patent Number:	7699469	
Patent Number:	7920272	
Patent Number:	8081670	
Patent Number:	8177363	
Patent Number:	8579439	
Patent Number:	8582085	
Patent Number:	8717545	
Patent Number:	8757804	
Patent Number:	8891566	
Patent Number:	8948497	
Patent Number:	9081090	
Patent Number:	9103907	
Patent Number:	9134402	
Application Number:	14265465	
Application Number:	12393537	
Application Number:	14076172	
Application Number:	13843089	
Application Number:	14795059	

PATENT

Property Type	Number
Application Number:	14819478
Application Number:	61678147
Application Number:	13956961
Application Number:	61682463
Application Number:	61683409
Application Number:	13840833
Application Number:	61683418
Application Number:	13840441
Application Number:	61693969
Application Number:	13841304
Application Number:	61696447
Application Number:	14611557
Application Number:	61699430
Application Number:	13841856
Application Number:	14249085
Application Number:	14165724
Application Number:	14254853
Application Number:	61972366
Application Number:	14667925
Application Number:	61972371
Application Number:	14667929
Application Number:	14325538
Application Number:	12792498
Application Number:	14727632
Application Number:	14732657
Application Number:	14732656
Application Number:	14803188
Application Number:	14732655
Application Number:	14792508
Application Number:	60750045
Application Number:	60611295
Application Number:	60651989
Application Number:	61154207

CORRESPONDENCE DATA

Fax Number: (860)677-8655

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: 8602849878

Email:	lucia@horizontechfinance.com
Correspondent Name:	HORIZON TECHNOLOGY FINANCE
Address Line 1:	312 FARMINGTON AVENUE
Address Line 4:	FARMINGTON, CONNECTICUT 06032

NAME OF SUBMITTER:	ERIC S. DARMOFAL
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SIGNATURE:	/s/Eric S. Darmofal
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DATE SIGNED:	01/06/2016
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Total Attachments: 6

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GRANT OF SECURITY INTEREST
PATENTS

THIS GRANT OF SECURITY INTEREST, dated as of December 21, 2015, is executed by DIGITAL SIGNAL CORPORATION, a Delaware corporation with an address of 14000 Thunderbolt Place, Suite E, Chantilly, Virginia 20151 ("Debtor"), in favor of HORIZON TECHNOLOGY FINANCE CORPORATION, a Delaware corporation with an address of 312 Farmington Avenue, Farmington, Connecticut 06032 ("Secured Party").

A. Pursuant to a certain Venture Loan and Security Agreement, dated on or about the date hereof (the "Agreement") by and between Debtor and the Secured Party, the Secured Party has agreed to extend credit to Debtor upon the terms and subject to the conditions set forth therein;

B. Debtor owns the patents and/or applications for patents, more particularly described on Schedules 1-A and 1-B annexed hereto as part hereof (collectively, the "Patents");

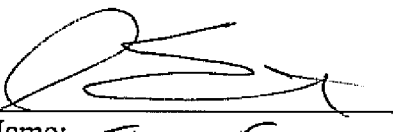
C. Pursuant to the Agreement, Debtor has granted to Secured Party a security interest in all right, title and interest of Debtor in and to the Patents, together with any reissue, continuation, continuation-in-part or extension thereof, and all proceeds thereof, including any and all causes of action which may exist by reason of infringement thereof for the full term of the Patents (the "Collateral"), to secure the prompt payment, performance and observance of the Obligations (as defined in the Agreement);

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, Debtor does hereby further grant to Secured Party a security interest in the Collateral to secure the prompt payment, performance and observance of the Obligations.

Debtor does hereby further acknowledge and affirm that the rights and remedies of Secured Party with respect to the security interest in the Collateral granted hereby are more fully set forth in the Agreement, the terms and provisions of which are hereby incorporated herein by reference as if fully set forth herein.

IN WITNESS WHEREOF, Debtor has caused this instrument to be executed as of the day and year first written above.

DIGITAL SIGNAL CORPORATION

By: 
Name: JENNY EVERETT
Title: CFO

SCHEDULE 1-A TO GRANT OF SECURITY INTEREST
PATENTS

United States Patent	Owner	Patent No	Registration Date	Country
System and method for remotely monitoring physiological functions	DSC	7,507,203	24-Mar-09	USA
Chirped coherent laser radar system and method	DSC	7,511,824	31-Mar-09	USA
System and method for tracking eyeball motion	DSC	7,699,469	20-Apr-10	USA
Chirped coherent laser radar system and method	DSC	7,920,272	5-Apr-11	USA
System and method for providing chirped electromagnetic radiation	DSC	8,081,670	20-Dec-11	USA
System and method for tracking eyeball motion	DSC	8,177,363	15-May-12	USA
System and method for tracking eyeball motion	DSC	8,579,439	12-Nov-13	USA
Chirped coherent laser radar with multiple simultaneous measurements	DSC	8,582,085	12-Nov-13	USA
System and method for generating three dimensional images using lidar and video measurements	DSC	8,717,545	6-May-14	USA
System and method for tracking eyeball motion	DSC	8,757,804	24-Jun-14	USA
System and method for providing chirped electromagnetic radiation	DSC	8,891,566	18-Nov-14	USA
System and method for increasing resolution of images obtained from a three-dimensional measurement system	DSC	8,948,497	2-Feb-15	USA
System and method for increasing coherence length in lidar systems	DSC	9,081,090	14-Jul-15	USA
System and method for tracking objects using lidar and video measurements	DSC	9,103,907	11-Aug-15	USA
System and method for calibrating video and lidar subsystems	DSC	9,134,402	15-Sep-15	USA

Owner	Patent No	Registration Date	Country
DSC	20586872	21-Jun-12	Australia
DSC	200680011582.7	19-May-10	China
DSC	ZL200580031816.X		China
DSC	ZL200680052371.8	7-Sep-11	China
DSC	ZL200780012665	11-May-11	China
DSC	ZI201010121338.4	18-Jul-12	China
DSC	2386245	19-Dec-12	EP/ France
DSC	2386245	19-Dec-12	EP/ Germany
DSC	2386245	19-Dec-12	EP/ United Kingdom
DSC	1850739	26-Oct-11	EP/France
DSC	602006025420.2	26-Oct-11	EP/Germany
DSC	1850739	26-Oct-11	EP/United Kingdom
DSC	1814443	7-Nov-12	EPO
DSC	1850739	26-Oct-11	EPO
DSC	2386245	19-Dec-12	EPO
DSC	1814443	7-Nov-12	EPO / Germany
DSC	1814443	7-Nov-12	EPO / France
DSC	1814443	7-Nov-12	EPO / United Kingdom
DSC	1850739	2-Mar-12	Hong Kong
DSC	5043038		Japan
DSC	5086104	14-Sep-12	Japan
DSC	5227023	22-Mar-13	Japan
DSC	5579392	18-Jul-15	Japan

SCHEDULE 1-B TO GRANT OF SECURITY INTEREST

PATENT APPLICATIONS

Application No.	Owner	Country	Filing Date:
14/265,465	DSC	USA	30-Apr-14
12/393,537	DSC	USA	26-Feb-09
14/076,172	DSC	USA	9-Nov-13
13/843,089	DSC	USA	15-Mar-13
14/795,059	DSC	USA	9-Jul-15
14/819,478	DSC	USA	6-Aug-15
61/678,147	DSC	USA	1-Aug-12
13/956,961	DSC	USA	1-Aug-13
61/682,463	DSC	USA	13-Aug-12
61/683,409	DSC	USA	15-Aug-12
13/840,833	DSC	USA	15-Mar-13
61/683,418	DSC	USA	15-Aug-12
13/840,441	DSC	USA	15-Mar-13
61/693,969	DSC	USA	28-Aug-12
13/841,304	DSC	USA	15-Mar-13
61/696,447	DSC	USA	4-Sep-12
14/611,557	DSC	USA	2-Feb-15
61/699,430	DSC	USA	11-Sep-12
13/841,856	DSC	USA	15-Mar-13
14/249,085	DSC	USA	9-Apr-14
14/165,724	DSC	USA	28-Jan-14
14/254853	DSC	USA	4-Apr-14
61/972,366	DSC	USA	30-Mar-14
14/667,925	DSC	USA	25-Mar-15
61/972,371	DSC	USA	30-Mar-14
14/667,929	DSC	USA	25-Mar-15
14/325,538	DSC	USA	8-Jul-14
12/792498	DSC	USA	2-Jun-10
14/727632	DSC	USA	1-May-15

SCHEDULE 1-B TO GRANT OF SECURITY INTEREST

PATENT APPLICATIONS

Application No.	Owner	Country	Filing Date:
14/732,657	DSC	USA	5-Jun-15
14/732,656	DSC	USA	5-Jun-15
14/803,188	DSC	USA	20-Jul-15
14/732,655	DSC	USA	5-Jun-15
14/792,508	DSC	USA	6-Jul-15
60/750,045	DSC	US Provisional	14-Dec-05
60/611,295	DSC	US Provisional	21-Sep-04
60/651,989	DSC	US Provisional	14-Feb-05
61/154,207	DSC	US/Prov	20-Feb-09
2011-551278/2012-518793	DSC	Japan	22-Aug-11
2015-531114	DSC	Japan	4-Mar-15
PCT/US07/062117	DSC	WO/PCT	14-Feb-07
PCT/US06/062096	DSC	WO/PCT	14-Dec-06
PCT/US05/33510	DSC	WO/PCT	21-Sep-05
PCT/US06/05094	DSC	WO/PCT	14-Feb-06
PCT/US14/24821	DSC	WO/PCT	12-Mar-14
PCT/US14/24835	DSC	WO/PCT	12-Mar-14
PCT/US10/024934	DSC	WO/PCT	22-Feb-10
2013-055090	DSC	WO/PCT	15-Mar-13
2013-056536	DSC	WO/PCT	24-Aug-13
2013-056537	DSC	WO/PCT	24-Aug-13
2013-056538	DSC	WO/PCT	24-Aug-13
2015-23938	DSC	WO/PCT	1-Apr-15
2015-013205	DSC	WO/PCT	28-Jan-15
2015-23911	DSC	WO/PCT	1-Apr-15
2015-22391	DSC	WO/PCT	25-Mar-15
2015-22393	DSC	WO/PCT	25-Mar-15
2015-39182	DSC	WO/PCT	6-Jul-15
2007214439	DSC	Australia	14-Aug-08
2013205646	DSC	Australia	2-May-13
2006325781	DSC	Australia	13-Jun-08

SCHEDULE 1-B TO GRANT OF SECURITY INTEREST

PATENT APPLICATIONS

Application No.	Owner	Country	Filing Date:
2013222042	DSC	Australia	13-Jun-08
2010257107	DSC	Australia	23-Aug-11
2013313140	DSC	Australia	18-Mar-15
2,642,474	DSC	Canada	14-Aug-08
2,634,033	DSC	Canada	13-Jun-08
2,579,100	DSC	Canada	1-Mar-07
2,597,712	DSC	Canada	13-Aug-07
2,753,197	DSC	Canada	19-Aug-11
2,885,318	DSC	Canada	18-Mar-15
201080014736.4	DSC	China	28-Sep-11
201380056034.6	DSC	China	27-Apr-15
06848645.5 EP 1959817	DSC	EPO	30-Jun-08
10783731.2 EP 2399150	DSC	EPO	25-Aug-11
13829328.7	DSC	EPO	6-Mar-15
13833862.9	DSC	EPO	6-Mar-15
13835882.5	DSC	EPO	6-Mar-15
13837875.7	DSC	EPO	10-Apr-15
12108177.4 1167463A	DSC	Hong Kong	21-Aug-12
3478/KOLNP/2008	DSC	India	26-Aug-08
2805/KOLNP/2008	DSC	India	10-Jul-08
940/KOLNP/2007	DSC	India	16-Mar-07
3478/KOLNP/2011	DSC	India	19-Aug-11
808/KOLNP/2015	DSC	India	25-Mar-15