

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT3254240

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST
CONVEYING PARTY DATA	
Name	Execution Date
ORBITAL TECHNOLOGIES CORPORATION	03/04/2015
RECEIVING PARTY DATA	
Name:	BANK OF AMERICA, N.A., AS ADMINISTRATIVE AGENT
Street Address:	231 S. LASALLE STREET, IL1-231-10-41
City:	CHICAGO
State/Country:	ILLINOIS
Postal Code:	60604
PROPERTY NUMBERS Total: 21	
Property Type	Number
Application Number:	14513910
Application Number:	13396919
Application Number:	13894919
Patent Number:	6174294
Patent Number:	6101808
Patent Number:	6298659
Patent Number:	6601380
Patent Number:	6865878
Patent Number:	6590403
Patent Number:	7845814
Patent Number:	7878674
Patent Number:	8388163
Patent Number:	8858012
Patent Number:	8066796
Patent Number:	8863694
Patent Number:	8882291
Patent Number:	8763682
Patent Number:	7913499
Patent Number:	7836964
Patent Number:	7992648

PATENT

Property Type	Number
Patent Number:	8776904

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	4452178-3293
NAME OF SUBMITTER:	REBECCA CHAFFIN
SIGNATURE:	/s/ Rebecca Chaffin
DATE SIGNED:	03/06/2015

Total Attachments: 5

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**NOTICE OF SECURITY INTEREST IN
PATENTS AND TRADEMARKS**

U.S. Department of Commerce
U.S. Patent and Trademark Office

Please be advised that each of the undersigned has granted a continuing security interest in, and a continuing lien upon, all of the trademarks and trademark applications listed on ANNEX I attached hereto and all patents and patent applications listed on ANNEX II attached hereto, to **BANK OF AMERICA, N.A.**, as Administrative Agent (the "Administrative Agent"), pursuant certain Security Agreement dated as of June 26, 2008 and as further amended and restated by that certain Amended and Restated Security Agreement dated as of December 14, 2012 (and as further amended, restated, supplemented or otherwise modified from time to time, including by joinder of additional grantors, the "Security Agreement") among the Assignor, Advanced Concept and Mission Systems, Dream Chaser, Inc., E.F. Solar LLC, Kisa Acquisition, LLC, MicroSat Systems, Inc., Nevada Solar Development, LLC, Sierra Solar I LLC, Sierra Solar II LLC, SpaceDev, Inc., Starsys, Inc., Straight Flight Nevada Commercial Leasing, LLC, Straight Flight, Inc., Global Security Management Services, LLC, SNC Holding LLC, Sierra Nevada Technical Services LLC, Airborne Services Global LLC, Airborne Services Global II LLC, 3S Holding LLC, 3S Certification, LLC, 3S Engineering, LLC and the Administrative Agent.

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Dated this 4th day of March, 2015.

ORBITAL TECHNOLOGIES CORPORATION

By: 

Name: Eren Ozmen

Title: President

ANNEX I
TRADEMARKS AND TRADEMARK APPLICATIONS

Mark	Registration No.	Owner
PEDALERT	2941880	Orbital Technologies Corporation
HYPERCOSM	2941881	Orbital Technologies Corporation
ORBITEC	2962444	Orbital Technologies Corporation
SPACE GARDEN	2987818	Orbital Technologies Corporation
ASTRO GARDEN	3386465	Orbital Technologies Corporation
HYDRUS	3823149	Orbital Technologies Corporation
PROTEUS	3815762	Orbital Technologies Corporation
T4	3905593	Orbital Technologies Corporation
T6	3905594	Orbital Technologies Corporation

ANNEX II
PATENTS AND PATENT APPLICATIONS

Owner: **Orbital Technologies Corporation**

Title (ALL CAPS)	Filing Date	Application No.	Issue Date	Patent No.
LIMB LOAD MONITOR	8/2/1996	08/691740	1/16/2001	6174294
CRYOGENIC SOLID HYBRID ROCKET ENGINE AND METHOD OF PROPELLING A ROCKET	5/27/1999	09/321231	8/15/2000	6101808
VORTEX FLOW FIELD AND APPARATUS AND METHOD FOR PRODUCING THE SAME	6/21/1999	09/337457	10/9/2001	6298659
HYBRID ROCKET ENGINE AND METHOD OF PROPELLING A ROCKET	9/26/2001	09/964294	8/5/2003	6601380
HYBRID ROCKET ENGINE AND METHOD OF PROPELLING A ROCKET	7/30/2003	10/630091	3/15/2005	6865878
MATERIAL REGRESSION SENSOR	4/11/2001	09/832471	7/8/2003	6590403
MARINE LED LIGHTING SYSTEM AND METHOD	10/27/2008	12/258897	12/7/2010	7845814
MARINE LED LIGHTING SYSTEM AND METHOD	1/6/2009	12/349156	2/1/2011	7878674
MARINE LED LIGHTING SYSTEM AND METHOD	6/22/2011	13/166430	3/5/2013	8388163
MARINE LED LIGHTING SYSTEM AND METHOD	3/1/2013	13/782088	10/14/2014	8858012
PROCESS TO CREATE SIMULATED LUNAR AGGLUTINATE PARTICLES	1/22/2008	12/017681	11/29/2011	8066796
UPGRADEABLE CONTROL SYSTEM FOR AQUARIUM LIGHTING	9/21/2011	13/238637	10/21/2014	8863694
UPGRADEABLE CONTROL SYSTEM FOR AQUARIUM LIGHTING	10/14/2014	14/513910	-	-
LED OMNI-STRIP LIGHTING SYSTEM	3/20/2012	13/424664	11/11/2014	8882291
CONDENSING HEAT EXCHANGER WITH HYDROPHILIC ANTIMICROBIAL COATING	6/20/2008	12/143595	7/1/2014	8763682
MICROGRAVITY CONDENSING HEAT EXCHANGER	7/1/2008	12/166233	3/29/2011	7913499

Title (ALL CAPS)	Filing Date	Application No.	Issue Date	Patent No.
ALL-TERRAIN, DRIVE-BY-WIRE, HIGH-PRESSURE, FIRE FIGHTING APPARATUS	8/14/2008	12/191934	11/23/2010	7836964
ALL-TERRAIN, DRIVE-BY-WIRE, HIGH-PRESSURE, FIRE FIGHTING APPARATUS	7/21/2009	2673551	-	-
LIGHT ULTRA HIGH PRESSURE FIRE VEHICLE SYSTEM	4/22/2009	12/428298	8/9/2011	7992648
LIGHT ULTRA HIGH PRESSURE FIRE VEHICLE SYSTEM	10/21/2011	13/265824	7/15/2014	8776904
LIGHT ULTRA HIGH PRESSURE FIRE VEHICLE SYSTEM	10/19/2009	2683263	-	-
ACOUSTIC IGNITER	2/15/2012	13/396919	-	-
GLOW PLUG TYPE ACOUSTIC RESONANCE IGNITER	5/15/2013	13/894919	-	-

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