

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4233268

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ALTAIR ENGINEERING INC.	01/01/2012
RECEIVING PARTY DATA	
Name:	iLumisys, Inc.
Street Address:	1820 East Big Beaver Rd.
City:	Troy
State/Country:	MICHIGAN
Postal Code:	48083-2031
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15373356
CORRESPONDENCE DATA	
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SIGNATURE:	/Roselynn Scarfo/
DATE SIGNED:	01/19/2017
Total Attachments: 10	
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ASSIGNMENT

WHEREAS, Altair Engineering Inc., a Michigan corporation, with a registered office at 1820 East Big Beaver Rd, Troy, Michigan 48083-2031 ("SELLER"), owns, by assignment, all right, title, and interest in the pending and issued Patents listed in the attached Exhibit A and any inventions claimed therein; and

WHEREAS, iLumisys, Inc., a Michigan corporation, with a registered office at 1820 East Big Beaver Rd, Troy, Michigan 48083-2031 ("PURCHASER"), desires to own SELLER'S entire right, title, and interest in and to the inventions, in all countries throughout the world, and in and to the pending and issued Patents listed in the attached Exhibit A.

NOW THEREFORE, be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, SELLER hereby sells, assigns, transfers, and sets over to PURCHASER, its lawful successors and assigns, SELLER'S entire right, title, and interest in and to the pending and issued Patents identified in Exhibit A, the inventions claimed therein, any other patent application directed to the inventions, and all Letters Patent of the United States that may be granted thereon, and all reissues, PCT applications, reexaminations, and extensions thereof; and all rights to claim priority on the basis of such applications, and all applications for Letters Patents that may be filed for the inventions in any foreign country and all Letters Patents that may be granted on the inventions in any foreign country, and all extensions, renewals, and reissues thereof; and the right to sue in PURCHASER'S own name to recover damages and/or royalties for past infringements; and SELLER hereby sells, assigns, transfers, and sets over to PURCHASER, its lawful successors and assigns, SELLER'S entire right, title, and interest in and to the technical knowhow and trade secrets necessary to practice the inventions; and SELLER hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patents for this inventions to PURCHASER, its successors and assigns, in accordance with the terms of this Assignment;

AND, SELLER HEREBY further covenants that SELLER has the full right to convey the interest assigned by this Assignment, SELLER will take all action and execute all documents necessary to perfect the interest assigned hereby, and SELLER has not executed and will not execute any agreement in conflict with this Assignment;

AND, SELLER HEREBY further covenants and agrees that SELLER, through its officers and employees, will, without further consideration, communicate with PURCHASER, its successors and assigns, any facts known to SELLER and its officers and employees respecting the inventions and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to the inventions in said PURCHASER, its successors and assigns, execute all divisional, continuation, reexamination and reissue applications, make all rightful oaths, and generally do everything possible to aid PURCHASER, its successors and assigns, to obtain and enforce proper patent protection for the inventions in the

United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by PURCHASER, its successors and assigns.

SELLOR HEREBY GRANTS to the law firm of Young Basile Hanlon & MacFarlane, P.C. the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

IN TESTIMONY WHEREOF, each party has caused its authorized representative to execute this Assignment.

SELLER:

PURCHASER:

Altair Engineering, INC

iLumisys, Inc.

By: 

By: 

Name: James R. Scapa

Name: David L. Simon

Its: President & Chief Executive Officer

Its: President

Effective Date: January 1, 2012

PRIVILEGED & CONFIDENTIAL

YOUNG BASILE
YOUNG BASILE HANLON & MACFARLANE P.C.

EXHIBIT A
LICENSED PATENTS

Matter Report

Query: ([ClientNo] Like 'acti')

YOUNG BASILE

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Mattern	MatterName	App. Ser. No.	Filing Date	Pat/Reg No	Issue Date	Status
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Client Name	AEIL - Altair Engineering, Inc. - Illumisys					
AEIL-172-A	Light Tube and Power Supply Circuit	60/181,744	2/11/2000			Expired
AEIL-172-B	Light Tube and Power Supply Circuit	09/782,375	2/12/2001	7,049,761	5/23/2005	Issued
AEIL-172-C	Light Sources Incorporating Light-Emitting Diodes	11/007,417	12/8/2004	8,093,823	1/10/2012	Issued
AEIL-172-D	Light Tube and Power-Supply Circuit	11/085,744	3/21/2005			Pending
AEIL-172-E	Lighting Device with Led's	11/925,037	10/26/2007	7,510,299	3/31/2009	Issued
AEIL-172-F	Light Sources Incorporating Light-Emitting Diodes	12/242,033	9/30/2008			Pending
AEIL-172-G	Reexamination of Altair Patent 7,510,299 for LED Light	90/011,261	10/4/2010	7,510,299 C2	5/24/2011	Terminated
AEIL-172-H	LED Lighting Units	12/965,019	12/10/2010			Pending
AEIL-172-M	Reexamination Application of Altair Patent 7,510,299 fo	90/011,762	6/27/2011	7,510,299		Pending
AEIL-172-N	Reexamination of U. S. Patent No. 7,510,299; LIGHTIN	90/010,644	10/16/2009	7,510,299 C1	11/9/2010	Terminated
AEIL-317-A	Electronic Circuit for Dc Conversion of Fluorescent Ligh	61/176,093	5/14/2009			Expired
AEIL-317-B	Electronic Circuit for Dc Conversion of Fluorescent Ligh	12/776,632	5/12/2010			Pending
AEIL-317-B-CA	Electronic Circuit for Dc Conversion of Fluorescent Ligh	2761294	5/13/2010			Pending
AEIL-317-B-EP	Electronic Circuit for Dc Conversion of Fluorescent Ligh	10775512,6	11/24/2011			Pending
AEIL-317-B-PCT	Electronic Circuit for Dc Conversion of Fluorescent Ligh	PCT/US2010/0	5/13/2010			Pending
AEIL-325-A	Illumination Device Including LEDs and a Switching Po	61/219,627	6/23/2009			Expired
AEIL-325-B	Illumination Device Including LEDs and a Switching Po	12/621,769	6/23/2010			Pending
AEIL-325-B-CA	Illumination Device Including LEDs and a Switching Po		6/23/2010			Pending

Matter#	MatterName	App. Ser. No.	Filing Date	Pat/Reg No	Issue Date	Status
AEI1-325-B-EP	Illumination Device Including LEDs and a Switching Po	10797603.7	12/29/2011			Pending
AEI1-325-B-PCT	Illumination Device Including LEDs and a Switching Po	PCT/US2010/0	6/23/2010			Pending
AEI1-329-A	Lighting with Swivel Connectors	11/961,701	12/20/2007	8,118,447	2/21/2012	Issued
AEI1-329-B	LED Lighting Apparatus with Swivel Connection US Div	13/343,766	1/5/2012			Pending
AEI1-331-A	Light Distribution Using a Light Emitting a Diode Assem	11/962,995	12/21/2007	7,712,918	5/11/2010	Issued
AEI1-331-A-CA	Light Distribution Using a Light Emitting a Diode Assem	27/03925	11/25/2008			Pending
AEI1-331-A-CN	Light Distribution Using a Light Emitting a Diode Assem	200880120176	11/25/2008			Pending
AEI1-331-A-EP	Light Distribution Using a Light Emitting Diode Assembl	08867240.7	11/25/2008			Pending
AEI1-331-A-JP	Light Distribution Using a Light Emitting Diode Assembl	2010-539582	11/25/2008			Pending
AEI1-331-A-PCT	Light Distribution	PCT/US2008/0	11/25/2008			Pending
AEI1-331-B	Light Distribution Using a Light Emitting Diode Assembl	12/724,645	3/16/2010	7,926,975	4/19/2011	Issued
AEI1-332-A	Direct Ac to Dc Converter for Passive Component Mini	61/146,041	1/21/2009			Expired
AEI1-332-B	DIRECT AC-TO-DC CONVERTER FOR PASSIVE CO	12/689,498	1/19/2010			Pending
AEI1-332-B-CA	Direct AC-to-DC Converter for Passive Component Mini	27/49883	1/20/2010			Pending
AEI1-332-B-EP	Direct AC-to-DC Converter for Passive Component Mini	10736237.8	7/5/2011			Pending
AEI1-332-B-PCT	DIRECT AC-TO-DC CONVERTER FOR PASSIVE CO	PCT/US2010/0	1/20/2010			Pending
AEI1-340-A	RGB LED Lamp with Phosphor Coating	61/219,625	6/23/2009			Expired
AEI1-340-B	LED Lamp with Phosphor Coating	61/317,796	3/26/2010			Pending
AEI1-340-C	LED Lamp with Phosphor Coating Utility Patent Applica	12/821,406	6/23/2010			Pending
AEI1-340-C-CA	LED LAMP WITH A WAVELENGTH CONVERTING LA		6/23/2010			Opened
AEI1-340-C-EP	LED LAMP WITH A WAVELENGTH CONVERTING LA	10797596.3	12/29/2011			Pending
AEI1-340-C-PCT	LED Lamp with Phosphor Coating International Patent	PCT/US2010/0	6/23/2010			Pending
AEI1-341-A	Lens and HeatSink Assembly for a Led Light Tube	12/040,901	3/2/2008	7,815,336	10/19/2010	Issued

Mattern	MatterName	App. Ser. No.	Filing Date	Pat/Reg No	Issue Date	Status
AEI1-342-A	LIGHT AND LIGHT SENSOR	61/106,354	10/24/2008			Expired
AEI1-342-B	LIGHT AND LIGHT SENSOR	12/572,471	10/2/2009			Pending
AEI1-342-B-CA	LIGHT AND LIGHT SENSOR National Stage-Patent:Ap	2737747	10/9/2009			Pending
AEI1-342-B-EP	LIGHT AND LIGHT SENSOR National Stage-Patent:Ap	09822423.1	4/13/2011			Pending
AEI1-342-B-PCT	LIGHT AND LIGHT SENSOR	PCT/US2009/0	10/9/2009			Pending
AEI1-343-A	Integration of LED Lighting with Building Controls	61/106,358	10/24/2008			Expired
AEI1-343-B	INTEGRATION OF LED LIGHTING WITH BUILDING C	12/572,601	10/2/2009			Pending
AEI1-343-B-CA	Integration of LED Lighting with Building Controls:Natio	2737750	10/9/2009			Pending
AEI1-343-B-EP	Integration of LED Lighting with Building Controls:Natio	09822424.9				Pending
AEI1-343-B-PCT	INTEGRATION OF LED LIGHTING WITH BUILDING C	PCT/US2009/0	10/9/2009			Pending
AEI1-344-A	Integration of Led	12/257,773	10/24/2008			Pending
AEI1-344-A-CA	Integration of LED Lighting Control with Emergency Not	2,739,471	9/16/2009			Pending
AEI1-344-A-EP	Integration of LED Lighting Control with Emergency Not	0982238.1	4/13/2011			Pending
AEI1-344-A-PCT	Integration of LED Lighting Control with Emergency Noti	PCT/US2009/0	9/16/2009			Pending
AEI1-345-A	Integration of Led	12/257,691	10/24/2008	7,938,562	5/10/2011	Issued
AEI1-345-A-CA	Lighting Including Integral Communication Apparatus N	2739115				Pending
AEI1-345-A-EP	Lighting Including Integral Communication Apparatus N	09822382.9	9/15/2009			Pending
AEI1-345-A-PCT	Lighting Including Integral Communication Apparatus	PCT/US2009/0	9/16/2009			Pending
AEI1-345-B	Integration of Led Lighting	12/985,049	1/5/2011			Pending
AEI1-351-A	Configuration for Circuit Board and Heat Sink	12/169,918	7/9/2008	7,976,196	7/12/2011	Allowed
AEI1-351-B	Method of Forming LED-Based Light and Resulting LE	13/153,818	6/6/2011			Pending
AEI1-352-A	Lamp Failure Alerting Mechanisms	12/202,662	9/2/2008			Pending
AEI1-352-A-PCT	International Application for LED Lamp Failure Alerting	PCT/US2009/0	8/14/2009			Expired

Mattern	MatternName	App. Ser. No.	Filing Date	Pat/Reg No	Issue Date	Status
AEI1-355-A	Longitudinally Oriented Light	12/183,363	7/31/2006	7,946,729	5/24/2011	Issued
AEI1-355-A-CA	Fluorescent Tube Replacement Having Longitudinally	2729669	7/17/2009			Pending
AEI1-355-A-CN	Fluorescent Tube Replacement Having Longitudinally	200980129068	7/17/2009			Pending
AEI1-355-A-GB	Fluorescent Tube Replacement Having Longitudinally	1100091.6	1/5/2011			Pending
AEI1-355-A-KR	Fluorescent Tube Replacement Having Longitudinally	10-2011-70027	2/1/2011			Pending
AEI1-355-A-PCT	Fluorescent Tube	PCT/US2009/0	7/17/2009			Pending
AEI1-358-A	Electric Shock Resistant L.E.D. Based Light	12/126,579	5/23/2008			Pending
AEI1-358-A-CA	Electric Shock Resistant L.E.D. Based Light Canadian	2724424	5/18/2009			Pending
AEI1-358-A-GB	Electric Shock Resistant L.E.D. Based Light GB Nation	1018386.9	1/19/2010			Pending
AEI1-358-A-PCT	Electric Shock	PCT/US2009/0	5/18/2009			Pending
AEI1-358-B	D-Shaped Cross-Section Light Tube Arrangement	12/776,612	5/12/2010			Pending
AEI1-361-A	LED Light Lens Design	61/144,853	1/15/2009			Expired
AEI1-361-B	LED Lens	12/687,519	1/14/2010			Pending
AEI1-361-B-CA	LED LENS	2,749,498	1/15/2010			Pending
AEI1-361-B-EP	LED LENS	10732124.2	6/28/2011			Pending
AEI1-361-B-PCT	LED Lens	PCT/US2010/0	1/15/2010			Pending
AEI1-362-A	Ballast/Line Detection Circuit for Fluorescent Replacem	61/146,164	1/21/2009			Expired
AEI1-362-B	BALLAST/LINE DETECTION CIRCUIT FOR FLUORES	12/689,340	1/19/2010			Pending
AEI1-362-B-CA	Ballast/Line Detection Circuit for Fluorescent Replacem	2749833	1/20/2010			Pending
AEI1-362-B-EP	Ballast/Line Detection Circuit for Fluorescent Replacem	10738925.6	6/28/2011			Pending
AEI1-362-B-PCT	BALLAST/LINE DETECTION CIRCUIT FOR FLUORES	PCT/US2010/0	1/20/2010			Pending
AEI1-365-A	LED-Based Light Having Rapidly Oscillating Leads	12/210,653	9/15/2006			Pending
AEI1-365-A-PCT	International Application for LED-Based Light Having Ra	PCT/US2009/0	8/27/2009			Pending

MatterN	MatterName	App. Ser. No.	Filing Date	Pat/Reg No	Issue Date	Status
AEI1-4001-A	Lamp	29/326,786	10/24/2002	D597,244	7/28/2009	Issued
AEI1-4002-A	Lamp	29/326,794	10/24/2008	D597,243	7/28/2009	Issued
AEI1-4003-A	Turn Lamp	29/326,798	10/24/2008	D617,036	6/1/2010	Issued
AEI1-4004-A	Pause Lamp	29/326,800	10/24/2008	D603,083	10/27/2009	Issued
AEI1-4005-A	Lamp	29/326,804	10/24/2008	D597,245	7/28/2009	Issued
AEI1-4007-A	End Cap Substitute for Led-Based Tube Replacement	61/108,345	10/24/2008			Expired
AEI1-4007-B	END CAP SUBSTITUTE FOR LED-BASED TUBE REP	12/573,233	10/5/2009			Pending
AEI1-4007-B-CA	End Cap Substitute for LED-Based Tube Replacement	2740707	4/13/2011			Pending
AEI1-4007-B-EP	End Cap Substitute for LED-Based Tube Replacement	09822425.6	4/13/2011			Pending
AEI1-4007-B-PCT	END CAP SUBSTITUTE FOR LED-BASED TUBE REP	PCT/US2009/0	10/9/2009			Pending
AEI1-4020-A	Screw -In LED Bulb	61/183,307	6/2/2009			Expired
AEI1-4020-B	Screw-In LED Bulb	29/335,846	4/23/2009	D650,097	12/6/2011	Issued
AEI1-4020-C	SCREW-IN LED BULBS	12/791,122	6/1/2010			Pending
AEI1-4020-C-CA	Screw-In LED Bulb Canadian National Phase Patent A	2752833	6/2/2010			Pending
AEI1-4020-C-EP	Screw-In LED Bulb European Regional Phase Patent A	10783978.9	6/2/2010			Pending
AEI1-4020-C-PCT	SCREW-IN LED BULBS	PCT/US2010/0	6/2/2010			Pending
AEI1-4020-D	Screw-In "Edison Base" LED Light Bulb	29/399,299	8/11/2011			Pending
AEI1-4027-A	LED Light Tube with Dual Sided Light Distribution	61/317,825	3/26/2010			Expired
AEI1-4027-B	LED Light Tube with Dual Sided Light Distribution Utility	13/071,576	3/25/2011			Pending
AEI1-4027-B-PCT	LED Light Tube with Dual Sided Light Distribution Inter	PCT/US2011/0	3/25/2011			Pending
AEI1-4028-A	LED Light with Thermoelectric Generator	61/317,841	3/26/2010			Expired
AEI1-4028-B	LED Light with Thermoelectric Generator Utility Patent	13/071,698	3/25/2011			Pending
AEI1-4028-B-PCT	LED Light with Thermoelectric Generator International	PCT/US2011/0	3/25/2011			Pending

Matter#	MatterName	App. Ser. No.	Filing Date	Pat/Reg No	Issue Date	Status
AEI1-4030-A	Inside-Out LED Bulb	61/317,371	3/26/2010			Expired
AEI1-4030-B	INSIDE-OUT LED BULB Utility Patent Application	13/071,965	3/25/2011			Pending
AEI1-4030-B-PCT	INSIDE-OUT LED BULB International Patent Application	PCT/US2011/0	3/25/2011			Pending
AEI1-4031-A	Circuit Board Mount for LED Light Tube	61/363,405	7/1/2010			Pending
AEI1-4031-B	Circuit Board Mount for LED Light Tube Utility Patent A.	13/179,790	7/1/2011			Pending
AEI1-4031-B-PCT	Circuit Board Mount for LED Light Tube International P	PCT/US2011/0	7/1/2011			Pending
AEI1-4035-A	Mechanisms for Reducing Risk of Shock During Install	61/407,962	10/29/2010			Pending
AEI1-4035-B	Mechanisms for Reducing Risk of Shock During Install	13/284,008	10/28/2011			Pending
AEI1-4035-B-PCT	Mechanisms for Reducing Risk of Shock During Install	PCT/US2011/0	10/28/2011			Pending
AEI1-4039-A	INDEPENDENT MODULES FOR LED FLUORESCENT	61/362,504	7/8/2010			Pending
AEI1-4039-B	INDEPENDENT MODULES FOR LED FLUORESCENT	13/173,762	6/30/2011			Pending
AEI1-4039-B-PCT	INDEPENDENT MODULES FOR LED FLUORESCENT	PCT/US2011/0	7/1/2011			Pending
AEI1-4050-A	Improved LED Replacement Lamp	61/386,101	9/30/2010			Pending
AEI1-4050-B	LED Replacement Lamp Utility Patent Application	13/242,609	9/23/2011			Pending
AEI1-4050-B-PCT	LED Replacement Lamp International Application	PCT/US2011/0	9/23/2011			Pending
AEI1-4055-A	LED Fluorescent Tube Replacement with Single Conne	61/421,343	12/9/2010			Pending
AEI1-4055-B	LED Fluorescent Tube Replacement Light with Reduce	13/315,582	12/9/2011			Pending
AEI1-4056-A	Method of Manufacturing LED Light Tube	61/362,561	7/8/2010			Pending
AEI1-4056-B	LED Light Tube and Method of Manufacturing LED Ligh	13/172,910	6/30/2011			Pending
AEI1-4056-B-PCT	LED Light Tube and Method of Manufacturing LED Ligh	PCT/US2011/0/	7/1/2011			Pending
AEI1-4100-A	Current Regulator Circuit for LED Light	61/421,347	12/9/2010			Pending
AEI1-4100-B	Current Regulator Circuit for LED Light Utility Patent Ap	13/315,596	12/9/2011			Pending
AEI1-4100-B-PCT	Current Regulator Circuit for LED Light International Ap	PCT/US2011/0	12/9/2011			Pending

Matter#N	MatterName	App. Ser. No.	Filing Date	Pat/Reg No	Issue Date	Status
AEI-4110-A	LED Replacement Light with Crimped Heat Sink	61/526,875	3/24/2011			Pending
AEI-4123-B	LED Light Tube	29/411,205	1/18/2012			Pending
AEI-4131-A	LIGHT TUBE DESIGN Patent Application	29/410,065	1/4/2012			Pending