PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4682110

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GED INTEGRATED SOLUTIONS, INC.	06/05/2015

RECEIVING PARTY DATA

Name:	GED INTEGRATED SOLUTIONS, INC.
Street Address:	9280 DUTTON DRIVE
City:	TWINSBURG
State/Country:	OHIO
Postal Code:	44087

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15807120

CORRESPONDENCE DATA

Fax Number: (216)621-4072

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: 216-621-2234
Email: rkline@tarolli.com
Correspondent Name: TAROLLI, SUNDHEIM, COVELL & TUMMINO LLP
Address Line 1: 1300 EAST NINTH STREET
Address Line 2: SUITE 1700
Address Line 4: CLEVELAND, OHIO 44114

ATTORNEY DOCKET NUMBER:	GED-021029 US DIV 2
NAME OF SUBMITTER:	JOHN A. YIRGA
SIGNATURE:	/John A. Yirga/
DATE SIGNED:	11/09/2017

Total Attachments: 10
source=Assignment#page1.tif
source=Assignment#page2.tif
source=Assignment#page3.tif
source=Assignment#page4.tif
source=Assignment#page5.tif

source=Assignment#page6.tif
source=Assignment#page7.tif
source=Assignment#page8.tif
source=Assignment#page9.tif
source=Assignment#page10.tif

PATENT ASSIGNMENT

This Patent Assignment, effective as of June 8, 2015 (this "Assignment"), is entered into by and between GED Integrated Solutions, Inc., an Ohio corporation with a principal place of business at 9280 Dutton Drive, Twinsburg, OH 44087 (the "Assignor"), and GED Integrated Solutions, Inc., a Delaware corporation F/K/A GED Acquisition, Inc. (the "Assignee").

WHEREAS, Assignor owns certain new and useful improvements as described and/or claimed in the issued patents and patent applications set forth in Schedule A, attached hereto (the "Patent Documents");

WHEREAS, as used herein, the "Inventions" means: (a) the Patent Documents; (b) any inventions which are disclosed but not claimed in the Patent Documents; (d) any all improvements, developments, and modifications to the invention deriving from the Patent Documents; (e) any and all continuations, continuations-in-part, requests for continued examination, and all other applications which claim priority to the Patent Documents, including but not limited to any and all applications filed pursuant to 37 C.F.R. 1.53; and (f) any and all provisional applications, continuations, requests for continued examination, and all other applications, including but not limited to those applications filed under 37 C.F.R. 1.53, to which the Patent Documents claims priority;

WHEREAS, the Assignee desires to acquire the entire right, title and interest in the Inventions, and in any Patents obtained therefore and thereon;

NOW, for good and valuable consideration received from the Assignee, receipt and sufficiency of which is hereby acknowledged, the Assignor assigns and transfers to the Assignee, the Assignor's entire right, title and interest in the Inventions, and all United States Patents which may be granted on the Inventions, and all reissues, reexaminations and extensions on the Inventions, and all priority rights under all available International Agreements, Treaties and Conventions in every participating country, and all applications for patents (including related rights such as utility-model registrations, inventor's certificates, and the like) filed for the Inventions in any foreign countries, and all patents granted for the Inventions in any foreign countries, and all reissues, reexaminations and extensions on the Inventions in any foreign country; the Assignor assigns and transfers to the Assignee the right to file applications on the Inventions in the United States and all foreign countries, and the Assignor authorizes and requests the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty it is to issue patents, to issue all patents for the Inventions to the Assignee in accordance with the terms of this Assignment;

AND, for the same consideration, the Assignor covenants that when requested, without charge to, but at the expense of the Assignee, to carry out in good faith the intent and purpose of this Assignment; the Assignor will disclose, or cause to be disclosed, all facts known to the Assignor relating to the Inventions and their histories; the Assignor will testify in all legal proceedings, and do everything possible which the Assignee may reasonably consider desirable for aiding in securing, maintaining and enforcing proper patent and intellectual property protection for the Invention, including but not limited to executing all rightful oaths,

assignments, powers of attorney and other papers, as necessary, and the Assignor irrevocably appoints the Assignee as the Assignor's attorney in fact with power to execute on the Assignor's behalf any and all documents necessary to carry out the terms of this Assignment. The Assignor covenants with the Assignee that the Assignor has made no other assignment, grant, mortgage, license or other agreement affecting the rights and property conveyed here, and that the Assignor has full right to convey their entire right, title and interest as expressed in this Assignment;

This Assignment has been executed this 5th day of June, 2015.

By Assignor: _____
Name: **GED Integrated Solutions, Inc.**

US)
State of Ohio)
County of Cuyahoga)

On this 5th day of June, 2015, before me personally came **GED Integrated Solutions, Inc.**, to me known to be the entity described in and who executed the foregoing instrument, and acknowledged execution of the same.

_____
Notary Public
MELISSA A. LEONARDO, Attorney-At-Law
Notary Public, State of Ohio
My commission has no expiration date.
Section 147.03 O.R.C.

This Assignment has been executed this ___ day of _____, 2015.

By Assignee: _____
Name: **GED Integrated Solutions, Inc., a Delaware corporation F/K/A GED Acquisition, Inc.**

US)
State of _____)
County of _____)

On this ____ day of _____, 2015, before me personally came **GED Integrated Solutions, Inc., a Delaware corporation F/K/A GED Acquisition, Inc.**, to me known to be the entity described in and who executed the foregoing instrument, and acknowledged execution of the same.

_____
Notary Public

assignments, powers of attorney and other papers, as necessary, and the Assignor irrevocably appoints the Assignee as the Assignor's attorney in fact with power to execute on the Assignor's behalf any and all documents necessary to carry out the terms of this Assignment. The Assignor covenants with the Assignee that the Assignor has made no other assignment, grant, mortgage, license or other agreement affecting the rights and property conveyed here, and that the Assignor has full right to convey their entire right, title and interest as expressed in this Assignment;

This Assignment has been executed this ___ day of _____, 2015.

By Assignor: _____
Name: **GED Integrated Solutions, Inc.**

US)
State of _____)
County of _____)

On this ____ day of _____, 2015, before me personally came **GED Integrated Solutions, Inc.**, to me known to be the entity described in and who executed the foregoing instrument, and acknowledged execution of the same.

_____
Notary Public

This Assignment has been executed this ___ day of _____, 2015.

By Assignee: _____
Name: **GED Integrated Solutions, Inc., a Delaware corporation**
F/K/A GED Acquisition, Inc.

US)
State of CONNECTICUT)
County of FAIRFIELD)

On this 6 day of June, 2015, before me personally came **GED Integrated Solutions, Inc., a Delaware corporation F/K/A GED Acquisition, Inc.**, to me known to be the entity described in and who executed the foregoing instrument, and acknowledged execution of the same.

Denise Miller
Notary Public

DENISE M MILLER
Notary Public-Connecticut
My Commission Expires
August 31, 2019

Signature Page to Patent Assignment

Schedule A

Title	Serial Number	Filing Date	Patent Number	Country	Issue Date
Air knife and conveyor system	10/352010	27-Jan-2003	6742285	US	01-Jun-2004
Air knife and conveyor system	2422479	18-Mar-2003	2422479	CA	25-Feb-2014
Air knife and conveyor system	2828542	18-Mar-2003		CA	
Apparatus and method for guiding film	14/015258	30-Aug-2013		US	
Apparatus and method for guiding film	2789319	10-Sep-2012		CA	
Apparatus and method for processing sealant of an insulating glass unit	13/968621	16-Aug-2013		US	
Apparatus and method for sealing an insulating glass unit	14/645579	12-Mar-2015		US	
Automated spacer frame fabrication	11173368.9	08-Jul-2011		EP	
Automated spacer frame fabrication	13/157827	10-Jun-2011		US	
Automated spacer frame fabrication	2745772	08-Jul-2011	2745772	CA	11-Jun-2013
Automated spacer frame fabrication	2807032	08-Jul-2011		CA	
Automated spacer frame fabrication	MX/A/2011/007590	15-Jul-2011		MX	
Automated spacer frame fabrication and method	14/198706	06-Mar-2014		US	
Automated spacer frame fabrication and method	PCT/US2014/021741	07-Mar-2014		PCT	
Controlled dispensing of material	09/733272	08-Dec-2000	6630028	US	07-Oct-2003
Controlled dispensing of material	01310264.5	07-Dec-2001	EP1213431	DE	14-Nov-2007
Controlled dispensing of material	01310264.5	07-Dec-2001	EP1213431	EP	14-Nov-2007
Controlled dispensing of material	01310264.5	07-Dec-2001	EP1213431	GB	14-Nov-2007
Controlled dispensing of material	01310264.5	07-Dec-2001	EP1213431	IE	14-Nov-2007
Controlled dispensing of material	04001483.9	23-Jan-2004	EP1475491	EP	09-Mar-2011
Controlled dispensing of material	04001483.9	23-Jan-2004	EP1475491	GB	09-Mar-2011
Controlled dispensing of material	04001483.9	23-Jan-2004	EP1475491	IE	09-Mar-2011
Controlled dispensing of material	04001483.9	23-Jan-2004	EP1475491	DE	09-Mar-2011
Controlled dispensing of	07120580.1	13-Nov-2007		EP	

Title	Serial Number	Filing Date	Patent Number	Country	Issue Date
material					
Controlled dispensing of material	11/290271	30-Nov-2005	7429299	US	30-Sep-2008
Controlled dispensing of material	2364334	05-Dec-2001	2364334	CA	10-Aug-2010
Controlled dispensing of material	2455353	16-Jan-2004	2455353	CA	19-Nov-2013
Controlled dispensing of material	2826721	16-Jan-2004		CA	
Desiccant dispensing system	12/609469	30-Oct-2009	8474400	US	02-Jul-2013
Desiccant dispensing system	2500480	11-Mar-2005	2500480	CA	15-Dec-2009
Efficient assembly of insulating glass windows	11875470.4	20-Dec-2011		EP	
Efficient assembly of insulating glass windows	14/334895	18-Jul-2014		US	
Efficient assembly of insulating glass windows	2757725	10-Nov-2011		CA	
Method of assembling triple pane windows and apparatus therefor	10161484.0	29-Apr-2010		EP	
Efficient assembly of double or triple pane windows	12/765064	22-Apr-2010	8726487	US	20-May-2014
Efficient assembly of insulating glass windows	13/292473	09-Nov-2011	8813337	US	26-Aug-2014
Efficient assembly of triple pane windows	14/249776	10-Apr-2014		US	
Efficient assembly of triple pane windows	2703434	11-May-2010		CA	
File translator system	62/081220	18-Nov-2014		US	
Flexible clip	2597299	10-Feb-2006	2597299	CA	29-Apr-2014
Flexible clip	2842274	10-Feb-2006		CA	
Flexible film application for decorative coatings	1020110080546	12-Aug-2011		KR	
Apparatus and method for applying decorative foil to a component of a window	11176016.1	29-Jul-2011		EP	
Flexible film application for decorative coatings	12/855798	13-Aug-2010	8460489	US	11-Jun-2013
Flexible film application for decorative coatings	13/873956	30-Apr-2013		US	
Flexible film application for decorative coatings	201110286460.1	12-Aug-2011		CN	
Flexible film application for decorative coatings	2747980	02-Aug-2011		CA	
Flexible film application for decorative coatings	MX/A/2011/008568	12-Aug-2011	318581	MX	18-Mar-2014
Flexible film application for decorative coatings	MX/A/2013/014187	03-Dec-2013		MX	
Flexible film heated roller	2773771	11-Apr-2012		CA	
Flexible film heated roller	13/433525	29-Mar-2012		US	
Fluid application system and method	13793101.0	21-May-2013		EP	

Title	Serial Number	Filing Date	Patent Number	Country	Issue Date
Fluid application system and method	2874027	21-May-2013		CA	
Fluid application system and method	13/897565	20-May-2013		US	
Window or door manufacturing method and apparatus	10/331264	30-Dec-2002	6954676	US	11-Oct-2005
Glass production sequencing	10/751382	05-Jan-2004	7167767	US	23-Jan-2007
Glass optimization	10/844256	12-May-2004	7206656	US	17-Apr-2007
Glass optimization	2467436	17-May-2004	2467436	CA	07-May-2013
Glass production sequencing	2476713	06-Aug-2004		CA	
Glass treatment system and method	11/111146	21-Apr-2005	7273406	US	25-Sep-2007
Machine for washing glass (industrial design)	102356	07-Mar-2003	102356	CA	13-Jun-2006
Glass washing machine	29/169219	16-Oct-2002	D489848	US	11-May-2004
Glass washing machine with broken glass removal system	11/586159	25-Oct-2006	7531044	US	12-May-2009
Glass washing machine with broken glass removal system	12/425611	17-Apr-2009	7727336	US	01-Jun-2010
Glass washing machine with broken glass	12/758210	12-Apr-2010	7980259	US	19-Jul-2011
Glass washing machine with broken glass removal system	10/375557	26-Feb-2003	7137164	US	21-Nov-2006
Glass washing machine with broken glass removal system	2422590	18-Mar-2003	2422590	CA	29-Jun-2010
Glass washing machine with conveyor and brush speed control	10/661880	11-Sep-2003	7232493	US	19-Jun-2007
Glass washing machine with conveyor and brush speed control	11/789402	24-Apr-2007	7503090	US	17-Mar-2009
Glass washing machine with conveyor and brush speed control	2443153	26-Sep-2003	2443153	CA	06-Dec-2011
Laminated muntin bar and method and apparatus	2368349	17-Jan-2002	2368349	CA	12-Jul-2005
Laminated muntin bar method and apparatus	10/693034	24-Oct-2003	6912767	US	05-Jul-2005
Method and apparatus for processing sealant of an insulating glass unit	2475557	26-Jun-2003	2475557	CA	15-Feb-2011
Method and apparatus for processing sealant of an insulating glass unit	2723052	26-Jun-2003	2723052	CA	24-Sep-2013
Method and apparatus for processing sealant of an insulating glass unit	2814739	26-Jun-2003		CA	
Method and apparatus for processing sealant of an	03742206.0	26-Jun-2003		EP	

Title	Serial Number	Filing Date	Patent Number	Country	Issue Date
insulating glass unit					
Method and apparatus processing sealant of an insulating glass unit	10181836.7	26-Jun-2003		EP	
Method of manufacturing insulating glass units	09/109026	01-Jul-1998	6068720	US	30-May-2000
Multiple configuration joiner clip	12/326142	02-Dec-2008	8015763	US	13-Sep-2011
Multiple configuration joiner clip	2665965	13-May-2009	2665965	CA	19-Nov-2013
Dessicant dispensing system	10/922745	20-Aug-2004	7275570	US	02-Oct-2007
Muntin bar clip and muntin bar assembly	2579978	28-Feb-2007	2579978	CA	27-May-2014
Muntin bar clip and muntin bar assembly	11/505042	16-Aug-2006	8001742	US	23-Aug-2011
System for fabricating munit bars from sheet material	08/797031	07-Feb-1997	6173484	US	16-Jan-2001
Muntin grid and joiner	09/233834	20-Jan-1999	6244012	US	12-Jun-2001
Muntin grid and joiner	2284476	05-Oct-1999	2284476	CA	17-Sep-2002
Method an apparatus for making notched muntin bars having two finishes	09/975216	11-Oct-2001	6708384	US	23-Mar-2004
Notched muntin bars having two finishes	2369548	25-Jan-2002	2369548	CA	04-Apr-2006
Window processing having inspection and compensation	08004504.0	11-Mar-2008		EP	
System and method for cleaning window frames aafter learning their unknown profile using non-contact sensors	11/865244	01-Oct-2007	7921064	US	05-Apr-2011
Window processing system comprising a cleaning station with multiple cutting surfaces	13/041501	07-Mar-2011	8250023	US	21-Aug-2012
Method and apparatus for processing sealant of an insulating glass unit	10/183775	27-Jun-2002	6926782	US	09-Aug-2005
Method and apparatus for processing sealant of an insulating glass unit	11/109437	19-Apr-2005	7422650	US	09-Sep-2008
Method and apparatus for processing sealant of an insulating glass unit	13/351450	17-Jan-2012	8512501	US	20-Aug-2013
Spacer frame and method of making same	62/011253	12-Jun-2014		US	
System for fabricating contour muntin bars from sheet material	10/644253	20-Aug-2003	6883278	US	26-Apr-2005
System for fabricating contour muntin bars from sheet material	2310993	08-Jun-2000	2310993	CA	27-Mar-2007

Title	Serial Number	Filing Date	Patent Number	Country	Issue Date
Method for fabricating contour muntin bars from sheet material	10/101646	20-Jun-2002	6651304	US	25-Nov-2003
System for fabricating muntin bars from sheet material	09/525349	15-Mar-2000	6438819	US	27-Aug-2002
System for fabricating muntin bars from sheet material	09/726303	28-Nov-2000	6397453	US	04-Jun-2002
System for fabricating muntin bars from sheet material	10/409791	08-Apr-2003	6678938	US	20-Jan-2004
System for fabricating muntin bars from sheet material	2550052	04-Feb-1998	2550052	CA	16-Sep-2008
System for fabricating muntin bars from sheet material	10/120040	10-Apr-2002	6618926	US	16-Sep-2003
System for fabricating muntin bars from sheet material	2228681	04-Feb-1998	2228681	CA	14-Nov-2006
Laminating preformed muntin bars	10/754386	09-Jan-2004	6889416	US	10-May-2005
Laminated muntin bar apparatus	09/781630	12-Feb-2001	6687982	US	10-Feb-2004
Laminating preformed muntin bars	10/133718	26-Apr-2002	6745460	US	08-Jun-2004
Controlled dispensing of material	10/430662	06-May-2003	7048964	US	23-May-2006
Window cleaning system and method	14/472963	29-Aug-2014		US	
Window cleaning system and method	PCT/US2014/053478	29-Aug-2014		PCT	
Window component system including pusher for scrap removal	11/085769	21-Mar-2005	7866033	US	11-Jan-2011
Window component scrap reduction	05108493.7	15-Sep-2005		EP	
Window component scrap reduction	05108723.7	21-Sep-2005		EP	
Window component scrap reduction	11/085704	21-Mar-2005	7802365	US	28-Sep-2010
Window component scrap reduction	12/868817	26-Aug-2010	8720026	US	13-May-2014
Window component scrap reduction	2520237	19-Sep-2005	2520237	CA	25-Jun-2013
Window component scrap reduction	2520329	21-Sep-2005	2520329	CA	04-Jun-2013
Window component stock indexing	05104390.9	24-May-2005		EP	
Window component stock indexing	11/085711	21-Mar-2005	7610681	US	03-Nov-2009
Window component stock	12/537528	07-Aug-2009	8056234	US	15-Nov-2011

Title	Serial Number	Filing Date	Patent Number	Country	Issue Date
indexing					
Window component stock indexing	13/249337	30-Sep-2011	8904611	US	09-Dec-2014
Window component stock indexing	14/541378	14-Nov-2014		US	
Window component stock indexing	2509118	02-Jun-2005	2509118	CA	08-Jan-2013
Window component stock indexing	2791859	02-Jun-2005	2791859	CA	17-Feb-2015
Window component stock indexing	2872219	02-Jun-2005		CA	
Window component stock transferring	11/084929	21-Mar-2005	7445682	US	04-Nov-2008
Window component stock transferring	12/237748	25-Sep-2008	7901526	US	08-Mar-2011
Apparatus for the production of window components including pusher for scrap removal	05077052.8	09-Sep-2005	EP1642658	CZ	12-Dec-2007
Apparatus for the production of window components including pusher for scrap removal	05077052.8	09-Sep-2005	EP1642658	DE	12-Dec-2007
Apparatus for the production of window components including pusher for scrap removal	05077052.8	09-Sep-2005	EP1642658	EP	12-Dec-2007
Apparatus for the production of window components including pusher for scrap removal	05077052.8	09-Sep-2005	EP1642658	GB	12-Dec-2007
Apparatus for the production of window components including pusher for scrap removal	05077052.8	09-Sep-2005	EP1642658	HU	12-Dec-2007
Apparatus for the production of window components including pusher for scrap removal	05077052.8	09-Sep-2005	EP1642658	IE	12-Dec-2007
Apparatus for the production of window components including pusher for scrap removal	05077052.8	09-Sep-2005	EP1642658	PL	12-Dec-2007
Window component system including pusher for scrap removal	2507308	12-May-2005	2507308	CA	20-Nov-2012
Window component system including pusher for scrap removal	2789712	12-May-2005	2789712	CA	03-Mar-2015
Window component system including pusher for scrap removal	2875561	12-May-2005		CA	
Window frame corner	11/416304	02-May-2006	7448246	US	11-Nov-2008

Title	Serial Number	Filing Date	Patent Number	Country	Issue Date
fabrication					
Staging system for automated window or door fabrication	11/775957	11-Jul-2007	7955458	US	07-Jun-2011

606421483