

<b>PATENT ASSIGNMENT COVER SHEET</b>
--------------------------------------

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5549537

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ARTHUR JAMES HARVEY	01/18/2017
NORMAN R. PADGETT	01/18/2017
JOHN LEDDEN	01/23/2017
ROBERT CHARLES BRADLEY	01/18/2017
PATRICK DWAIN WARDEN	01/18/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TEXTRON INC.
<b>Street Address:</b>	40 WESTMINSTER ST.
<b>City:</b>	PROVIDENCE
<b>State/Country:</b>	RHODE ISLAND
<b>Postal Code:</b>	02903
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16407329
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(508)366-4688
<i>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.</i>	
<b>Phone:</b>	508-616-2900
<b>Email:</b>	Docket@BainwoodHuang.com
<b>Correspondent Name:</b>	BAINWOOD, HUANG & ASSOCIATES, LLC
<b>Address Line 1:</b>	2 CONNECTOR ROAD
<b>Address Line 4:</b>	WESTBOROUGH, MASSACHUSETTS 01581
<b>ATTORNEY DOCKET NUMBER:</b>	1181-006.003
<b>NAME OF SUBMITTER:</b>	DAVID E. HUANG, ESQ.
<b>SIGNATURE:</b>	/David E. Huang, Reg. No. 39,229/
<b>DATE SIGNED:</b>	05/31/2019
<b>Total Attachments: 15</b>	
source=1181-006.003 - Executed Assignment Inv1#page1.tif	

source=1181-006.003 - Executed Assignment Inv1#page2.tif  
source=1181-006.003 - Executed Assignment Inv1#page3.tif  
source=1181-006.003 - Executed Assignment Inv2#page1.tif  
source=1181-006.003 - Executed Assignment Inv2#page2.tif  
source=1181-006.003 - Executed Assignment Inv2#page3.tif  
source=1181-006.003 - Executed Assignment Inv3#page1.tif  
source=1181-006.003 - Executed Assignment Inv3#page2.tif  
source=1181-006.003 - Executed Assignment Inv3#page3.tif  
source=1181-006.003 - Executed Assignment Inv4#page1.tif  
source=1181-006.003 - Executed Assignment Inv4#page2.tif  
source=1181-006.003 - Executed Assignment Inv4#page3.tif  
source=1181-006.003 - Executed Assignment Inv5#page1.tif  
source=1181-006.003 - Executed Assignment Inv5#page2.tif  
source=1181-006.003 - Executed Assignment Inv5#page3.tif

**ASSIGNMENT**

**WHEREAS**, I, Arthur James Harvey, as the original inventor or an original joint inventor have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled

**CONTROLLING ELECTRICAL ACCESS TO A LITHIUM BATTERY ON A  
UTILITY VEHICLE**

which is further identified by Attorney Docket Number 1181-006;

**WHEREAS**, Textron Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware and having a usual place of business at 40 Westminster St, Providence, Rhode Island 02903, USA desires to acquire an interest therein in accordance with agreements duly entered into with me;

**NOW, THEREFORE**, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made; I hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. I hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

**AND**, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any

interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

**AND**, I do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives;

**AND** I hereby authorize the attorneys at Bainwood Huang & Associates LLC to insert here in parentheses ( 16/407,329 filed 05/09/2019 ) the application number and filing date of said application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

**IN TESTIMONY WHEREOF**, I have hereunto set my hand and affixed my seal as set forth below:

PATENT ASSIGNMENT  
Attorney Docket No.: 1181-006

Date: JANUARY 18, 2017

Arthur James Harvey  
Inventor's Signature

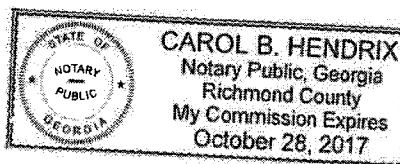
Legal name of inventor: Arthur James Harvey  
Residence: 7092 Burwick Run  
Beech Island, SC 29842  
Citizenship: US  
Mailing Address: Same as above

STATE/Commonwealth of GEORGIA  
COUNTY OF Richmond

On this 18<sup>th</sup> day of JANUARY, 2017, then personally appeared before me the above-named Arthur James Harvey known to me through satisfactory evidence of identification [] employee identification card; [] driver's license; [] (other) Arthur James Harvey to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Carol B. Hendrix  
Notary Public

Print Name: Carol B. Hendrix  
My Commission expires 10/28/17



**ASSIGNMENT**

**WHEREAS**, I, Norman R. Padgett, as the original inventor or an original joint inventor have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled

**CONTROLLING ELECTRICAL ACCESS TO A LITHIUM BATTERY ON A UTILITY VEHICLE**

which is further identified by Attorney Docket Number 1181-006;

**WHEREAS**, Textron Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware and having a usual place of business at 40 Westminster St, Providence, Rhode Island 02903, USA desires to acquire an interest therein in accordance with agreements duly entered into with me;

**NOW, THEREFORE**, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made; I hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. I hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

**AND**, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any

interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

**AND**, I do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives;

**AND** I hereby authorize the attorneys at Bainwood Huang & Associates LLC to insert here in parentheses (161407, 329 filed 05/09/2019) the application number and filing date of said application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

**IN TESTIMONY WHEREOF**, I have hereunto set my hand and affixed my seal as set forth below:

PATENT ASSIGNMENT  
Attorney Docket No.: 1181-006

Date: JAN 18, 2017

Norman R. Padgett  
Inventor's Signature

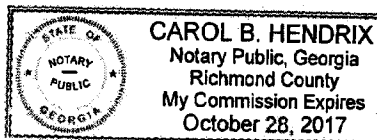
Legal name of inventor: Norman R. Padgett  
Residence: 5284 Magnolia Lane  
Evans, GA 30809  
Citizenship: US  
Mailing Address: Same as above

STATE/Commonwealth of GEORGIA  
COUNTY OF Richmond

On this 18<sup>th</sup> day of JANUARY, 2017, then personally appeared before me the above-named Norman R. Padgett known to me through satisfactory evidence of identification [] employee identification card; [] driver's license; [] (other) NORMAN R. PADGETT to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Carol B. Hendrix  
Notary Public

Print Name: CAROL B. HENDRIX  
My Commission expires 10/28/17





**ASSIGNMENT**

**WHEREAS**, I, John Ledden, as the original inventor or an original joint inventor have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled

**CONTROLLING ELECTRICAL ACCESS TO A LITHIUM BATTERY ON A  
UTILITY VEHICLE**

which is further identified by Attorney Docket Number 1181-006;

**WHEREAS**, Textron Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware and having a usual place of business at 40 Westminster Street, Providence, Rhode Island 02903, USA desires to acquire an interest therein in accordance with agreements duly entered into with me;

**NOW, THEREFORE**, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made; I hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. I hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

**AND**, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any

PATENT ASSIGNMENT  
Attorney Docket No.: 1181-006

interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

**AND**, I do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives;

**AND** I hereby authorize the attorneys at Bainwood Huang & Associates LLC to insert here in parentheses ( 16/407,329 filed 05/09/2019 ) the application number and filing date of said application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

**IN TESTIMONY WHEREOF**, I have hereunto set my hand and affixed my seal as set forth below:

PATENT ASSIGNMENT  
Attorney Docket No.: 1181-006

Date: 23/01/2017

John Ledden  
Inventor's Signature

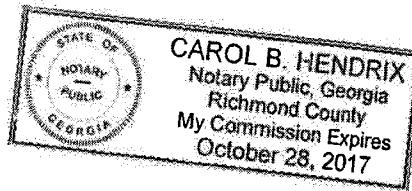
Legal name of inventor: John Ledden  
Residence: 4722 Sanctuary Court  
Augusta, GA 30909  
Citizenship: US  
Mailing Address: Same as above

STATE/Commonwealth of GEORGIA  
COUNTY OF Richmond

On this 23<sup>rd</sup> day of JANUARY, 2017, then personally appeared before me the above-named John Ledden known to me through satisfactory evidence of identification [] employee identification card; [] driver's license; [] (other) John Ledden to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Carol B. Hendrix  
Notary Public

Print Name: CAROL B. HENDRIX  
My Commission expires 10/28/17



**ASSIGNMENT**

**WHEREAS**, I, Robert Charles Bradley, as the original inventor or an original joint inventor have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled

**CONTROLLING ELECTRICAL ACCESS TO A LITHIUM BATTERY ON A  
UTILITY VEHICLE**

which is further identified by Attorney Docket Number 1181-006;

**WHEREAS**, Textron Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware and having a usual place of business at 40 Westminster Street, Providence, Rhode Island 02903, USA desires to acquire an interest therein in accordance with agreements duly entered into with me;

**NOW, THEREFORE**, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made; I hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. I hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

**AND**, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any

interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

**AND**, I do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives;

**AND** I hereby authorize the attorneys at Bainwood Huang & Associates LLC to insert here in parentheses (16/407,329 filed 05/09/2019) the application number and filing date of said application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

**IN TESTIMONY WHEREOF**, I have hereunto set my hand and affixed my seal as set forth below:

PATENT ASSIGNMENT  
Attorney Docket No.: 1181-006

Date: 1/18/17

[Signature]  
Inventor's Signature

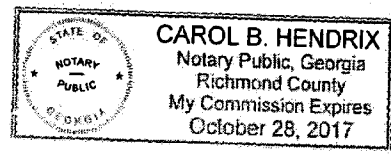
Legal name of inventor: Robert Charles Bradley  
Residence: 71 Boy Scout Court  
Augusta, GA 30909  
Citizenship: US  
Mailing Address: Same as above

STATE/Commonwealth of GEORGIA  
COUNTY OF Richmond

On this 18<sup>th</sup> day of JANUARY, 2017, then personally appeared before me the above-named Robert Charles Bradley known to me through satisfactory evidence of identification  employee identification card;  driver's license;  (other) Robert Charles Bradley to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

[Signature]  
Notary Public

Print Name: CAROL B. Hendrix  
My Commission expires 10/28/17



**ASSIGNMENT**

**WHEREAS**, I, Patrick Dwaine Warden, as the original inventor or an original joint inventor have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled

**CONTROLLING ELECTRICAL ACCESS TO A LITHIUM BATTERY ON A  
UTILITY VEHICLE**

which is further identified by Attorney Docket Number 1181-006;

**WHEREAS**, Textron Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware and having a usual place of business at 40 Westminster Street, Providence, Rhode Island 02903, USA desires to acquire an interest therein in accordance with agreements duly entered into with me;

**NOW, THEREFORE**, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made; I hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. I hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

**AND**, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any

interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

**AND**, I do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives;

**AND** I hereby authorize the attorneys at Bainwood Huang & Associates LLC to insert here in parentheses (16/407,329 filed 05/09/2019) the application number and filing date of said application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

**IN TESTIMONY WHEREOF**, I have hereunto set my hand and affixed my seal as set forth below:



Date: 1/18/17

[Signature]  
Inventor's Signature

Legal name of inventor: Patrick Dwaine Warden  
Residence: 2045 Dundee Way  
Grovetown, GA 30813  
Citizenship: US  
Mailing Address: Same as above

STATE/Commonwealth of GEORGIA  
COUNTY OF Richmond

On this 18<sup>th</sup> day of JANUARY, 2017, then personally appeared before me the above-named Patrick Dwaine Warden known to me through satisfactory evidence of identification  employee identification card;  driver's license;  (other) Patrick Dwaine Warden to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

[Signature]  
Notary Public

Print Name: CAROL B. HENDRIX

My Commission expires 10/28/17

