

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5558312

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the SIGNATURE PAGE OF INVENTOR DAREN J. WEBER previously recorded on Reel 043069 Frame 0024. Assignor(s) hereby confirms the ASSIGNMENT.
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CHARLES F. LONG	03/04/2015
DARREN J. WEBER	05/31/2019
JOHN WILLIAM EDWARD FULLER	12/18/2014
STEPHEN MURRAY	01/08/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ALLISON TRANSMISSION, INC.
<b>Street Address:</b>	ONE ALLISON WAY
<b>City:</b>	INDIANAPOLIS
<b>State/Country:</b>	INDIANA
<b>Postal Code:</b>	46222
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14552135
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(312)759-5646
<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>	312-357-1313
<b>Email:</b>	msweetin@btlaw.com
<b>Correspondent Name:</b>	MARK J. NAHNSEN
<b>Address Line 1:</b>	BARNES & THORNBURG LLP
<b>Address Line 2:</b>	P.O. BOX 2786
<b>Address Line 4:</b>	CHICAGO, ILLINOIS 60690-2786
<b>ATTORNEY DOCKET NUMBER:</b>	46582-232765
<b>NAME OF SUBMITTER:</b>	MARK J. NAHNSEN, REG. NO. 51093
<b>SIGNATURE:</b>	/Mark J. Nahnsen/
<b>DATE SIGNED:</b>	06/06/2019
<b>Total Attachments: 12</b>	

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## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4515606

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CHARLES F. LONG	03/04/2015
DAREN J. WEBER	08/08/2007
JOHN WILLIAM EDWARD FULLER	12/18/2014
STEPHEN MURRAY	01/08/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ALLISON TRANSMISSION, INC.
<b>Street Address:</b>	ONE ALLISON WAY
<b>City:</b>	INDIANAPOLIS
<b>State/Country:</b>	INDIANA
<b>Postal Code:</b>	46204
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14552135
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>Email:</b>	stebo@btlaw.com
<b>Correspondent Name:</b>	BARNES & THORNBURG LLP
<b>Address Line 1:</b>	11 S. MERIDIAN STREET
<b>Address Line 4:</b>	INDIANAPOLIS, INDIANA 46204
<b>ATTORNEY DOCKET NUMBER:</b>	46582-232765
<b>NAME OF SUBMITTER:</b>	GLEN M. KELLETT
<b>SIGNATURE:</b>	/GLEN M. KELLETT/
<b>DATE SIGNED:</b>	07/21/2017
<b>Total Attachments: 12</b>	
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ASSIGNMENT TO BUSINESS CONCERN

Attorney Docket No.: 46582-224328  
Client Reference No.: ATP-0060-USU2

PATENT ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged,

Name(s) of Inventor(s) Charles F. Long;  
Darren J. Weber;  
John William Edward Fuller; and  
Stephen Murray

maker(s) of an invention which is the subject of an application for Letters Patent of the United States ("Application") entitled

Title of Application MULTI-PLEXING CLUTCH LOGIC CONTROL OF A MULTI-MODE TRANSMISSION

Serial No/Filing Date: 61/660,666 filed June 15, 2012  
13/828,093 filed March 14, 2013

the undersigned hereby sell(s), assign(s), and set(s) over to

Name of Assignee Allison Transmission, Inc.

Address of principal place of business 4700 West 10<sup>th</sup> Street  
Indianapolis, IN 46222

Insert State of Incorporation (if applicable) or "Not Applicable" a corporation of Delaware

(hereinafter designated as the Assignee) their entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising therefrom, all inventions therein disclosed, and any and all Letters Patent of the United States and of all other countries, including Canada, which may be granted for such inventions, or any of them, all such inventions and all rights in such Application and Letters Patent to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by them had this assignment and sale not been made.

The undersigned agree(s) to execute all papers necessary in connection with the application(s) in the United States and foreign countries and any continuing, divisional, or reissue applications thereof, and any reexamination of any of such applications, and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared or litigation concerning the application(s) or continuation, division, reissue, or reexamination thereof, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or litigation.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

ASSIGNMENT TO BUSINESS CONCERN

Attorney Docket No.: 46582-224328  
Client Reference No.: ATP-0069-USU2

The undersigned agree(s) to do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States and in all other countries where Assignee may desire to have such inventions, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application(s) or any division or divisions or continuing or reissue applications thereof, and any reexamination of any of such applications, to the said Assignee, as Assignee of the entire interest, and hereby covenants that the undersigned has full right to convey the interest herein assigned, and that the undersigned has not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, I have executed this assignment at Indianapolis  
(city and state or country if outside USA)  
this 4<sup>th</sup> day of March, 2015

Outside the USA: \_\_\_\_\_  
Witnesses are required when acknowledgment before a Notary Public is not feasible. \_\_\_\_\_  
Witness

Charles F. Long  
Inventor (Signature)

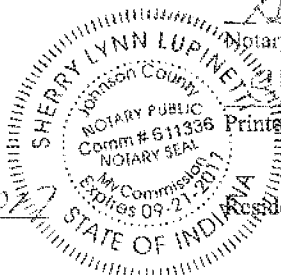
Charles F. Long  
Inventor (Printed Name)

ACKNOWLEDGMENT

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } SS:

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal  
this 4<sup>th</sup> day of March, 2015

Sherry Lynn Lupinetti  
Notary Public  
Sherry Lynn Lupinetti  
Printed Name  
My Commission Expires: 09-21-2017  
Resident of Johnson County



ASSIGNMENT TO BUSINESS CONCERN

Attorney Docket No.: 46582-224328  
Client Reference No.: ATP-0060-USU2

IN WITNESS WHEREOF, I have executed this assignment at \_\_\_\_\_  
(city and state or country if outside USA)  
this \_\_\_\_\_ day of \_\_\_\_\_.

Outside the USA: _____	_____
Witnesses are _____	Inventor (Signature) _____
required when _____	
acknowledgment _____	
before a Notary _____	Darren J. Weber _____
Public is not _____	Inventor (Printed Name) _____
feasible. _____	

ACKNOWLEDGMENT

STATE OF \_\_\_\_\_ }  
                                      }     SS:  
COUNTY OF \_\_\_\_\_ }

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal  
this \_\_\_\_\_ day of \_\_\_\_\_.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Printed Name

My Commission Expires: \_\_\_\_\_

Resident of \_\_\_\_\_ County

ASSIGNMENT TO BUSINESS CONCERN

Attorney Docket No.: 46582-224328  
Client Reference No.: ATP-0060-USU2

IN WITNESS WHEREOF, I have executed this assignment at \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_  
(city and state or country if outside USA)

Outside the USA: \_\_\_\_\_  
Witnesses are required when acknowledgment before a Notary Public is not feasible.  
Witness \_\_\_\_\_  
Inventor (Signature) \_\_\_\_\_  
John William Edward Fuller  
Inventor (Printed Name) \_\_\_\_\_

ACKNOWLEDGMENT

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } SS:

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal  
this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Printed Name

My Commission Expires: \_\_\_\_\_

Resident of \_\_\_\_\_ County

ASSIGNMENT TO BUSINESS CONCERN

Attorney Docket No.: 46582-224328  
Client Reference No.: ATP-0060-USU2

IN WITNESS WHEREOF, I have executed this assignment at \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_  
(city and state or country if outside USA)

Outside the USA: \_\_\_\_\_  
Witnesses are \_\_\_\_\_  
required when \_\_\_\_\_  
acknowledgment \_\_\_\_\_  
before a Notary \_\_\_\_\_  
Public is not \_\_\_\_\_  
feasible. \_\_\_\_\_  
Witness \_\_\_\_\_  
Inventor (Signature) \_\_\_\_\_  
Stephen Murray \_\_\_\_\_  
Inventor (Printed Name) \_\_\_\_\_

ACKNOWLEDGMENT

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } SS:

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal  
this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Printed Name

My Commission Expires: \_\_\_\_\_

Resident of \_\_\_\_\_ County

INDS02 1271559v1

ASSIGNMENT TO BUSINESS CONCERN

Attorney Docket No.: 46582-224328  
Client Reference No.: ATP-0060-USU2

### PATENT ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged,

Name(s) Charles F. Long;  
of Inventor(s) Darren J. Weber;  
John William Edward Fuller; and  
Stephen Murray

maker(s) of an invention which is the subject of an application for Letters Patent of the United States ("Application") entitled

Title of REDUNDANT CONTROLS FOR A MULTI-MODE TRANSMISSION  
Application

Serial No./Filing Date: 61/660,666 filed June 15, 2012 13/828,072 filed March 14, 2013 13/828,135 filed March 14, 2013  
13/828,093 filed March 14, 2013 13/828,107 filed March 14, 2013 PCT/US2013/045580 filed June 13, 2013

the undersigned hereby sell(s), assign(s), and set(s) over to

Name of ALLISON TRANSMISSION, INC.  
Assignee

Address of One Allison Way  
principal Indianapolis, IN 46222  
place of   
business

Insert State of   
Incorporation a corporation of Delaware  
(if applicable) or  
"Not Applicable"

(hereinafter designated as the Assignee) their entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising therefrom, all inventions therein disclosed, and any and all Letters Patent of the United States and of all other countries, including Canada, which may be granted for such inventions, or any of them, all such inventions and all rights in such Application and Letters Patent to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by them had this assignment and sale not been made.

The undersigned agree(s) to execute all papers necessary in connection with the application(s) in the United States and foreign countries and any continuing, divisional, or reissue applications thereof, and any reexamination of any of such applications, and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared or litigation concerning the application(s) or continuation, division, reissue, or reexamination thereof, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or litigation.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

ASSIGNMENT TO BUSINESS CONCERN

Attorney Docket No.: 46582-224328  
Client Reference No.: ATP-0060-USU2

The undersigned agree(s) to do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States and in all other countries where Assignee may desire to have such inventions, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application(s) or any division or divisions or continuing or reissue applications thereof, and any reexamination of any of such applications, to the said Assignee, as Assignee of the entire interest, and hereby covenants that the undersigned has full right to convey the interest herein assigned, and that the undersigned has not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, I have executed this assignment at \_\_\_\_\_  
(city and state or country if outside USA)  
this \_\_\_\_\_ day of \_\_\_\_\_.

Outside the USA: _____	_____
Witnesses are required when acknowledgment before a Notary Public is not feasible.	Witness
	Inventor (Signature)
	_____
	Charles F. Long
	Inventor (Printed Name)

ACKNOWLEDGMENT

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } SS:

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal  
this \_\_\_\_\_ day of \_\_\_\_\_.

\_\_\_\_\_  
Notary Public  
\_\_\_\_\_  
Printed Name

My Commission Expires: \_\_\_\_\_ Resident of \_\_\_\_\_ County

ASSIGNMENT TO BUSINESS CONCERN

Attorney Docket No.: 46582-224328  
Client Reference No.: ATP-0060-USU2

IN WITNESS WHEREOF, I have executed this assignment at SUNMAN, IN  
this 31<sup>ST</sup> day of MAY, 2019 (city and state or country if outside USA)

Outside the USA: \_\_\_\_\_  
Witnesses are required when acknowledgment before a Notary Public is not feasible.  
Witness \_\_\_\_\_  
Witness \_\_\_\_\_

Darren J. Weber  
Inventor (Signature)  
\_\_\_\_\_  
Darren J. Weber  
Inventor (Printed Name)

ACKNOWLEDGMENT

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } SS:

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal  
this \_\_\_\_\_ day of \_\_\_\_\_.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Printed Name

My Commission Expires: \_\_\_\_\_

Resident of \_\_\_\_\_ County

ASSIGNMENT TO BUSINESS CONCERN

Attorney Docket No.: 46582-224328  
Client Reference No.: ATP-0060-USU2

IN WITNESS WHEREOF, I have executed this assignment at LEYLAND, UK  
this 18<sup>th</sup> day of DECEMBER, 2014 (city and state or country if outside USA)

Outside the USA:  
Witnesses are  
required when  
acknowledgment  
before a Notary  
Public is not  
feasible.

A. R. Fidler

Witness

B. Ad

Witness

John William Edward Fuller

Inventor (Signature)

John William Edward Fuller

Inventor (Printed Name)

ACKNOWLEDGMENT

STATE OF

}

SS:

COUNTY OF

}

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal  
this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Printed Name

My Commission Expires: \_\_\_\_\_

Resident of \_\_\_\_\_ County

ASSIGNMENT TO BUSINESS CONCERN

Attorney Docket No.: 46582-224328  
Client Reference No.: ATP-0060-USU2

IN WITNESS WHEREOF, I have executed this assignment at ENGLAND  
(city and state or country if outside USA)  
this 8TH day of JANUARY, 2015.

Outside the USA:  
Witnesses are  
required when  
acknowledgment  
before a Notary  
Public is not  
feasible.

Witness

Witness

Inventor (Signature)

Stephen Murray  
Inventor (Printed Name)

ACKNOWLEDGMENT

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } SS:

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal  
this \_\_\_\_\_ day of \_\_\_\_\_.

Notary Public

Printed Name

My Commission Expires: \_\_\_\_\_

Resident of \_\_\_\_\_ County

INDS02 1271559v1