Form P10-1595 (Rev. 06/04)
OMB/No. 0651-0027 (exp. 6/30/200)

12-21-2006



13-15-05

U.S. Department of COMMERCE 7/ United States Patent and Trademark Office

SHEET

HDP Docket No. 1316N-001700 Express Mail Label No.

70 of the U.S. F 1033522	68 tached documents or the new address(es) below.
1. Name of conveying parties &Execution Dates:	
Van T. Walworth November 10, 2006	2. Name and address of receiving party(ies)
David B. Hook November 15, 2006	Name: Tenneco Automotive Operating Company In
Craig Whitaker November 7, 2006	Address: 500 North Field Drive
Joseph C. Bacarella November 7, 2006	Lake Forest, Illinois 60045
George Moser November 20, 2006	
Additional name of conveying party attached? ☐ Yes ☒ No  3. Nature of conveyance:	
·	
☐ Assignment ☐ Merger	
☐ Security Agreement ☐ Change of Name	Additional Name(s) & address(es) attached? ☐ Yes ☒ No
Government Interest Assignment	
Executive Order 9424, Confirmatory License	
☐ Other	
4. Application number(s) or patent number(s):	☐ This document is being filed together with a new application
A. Patent Application No.(s)	B. Patent No.(s)
11/494,272	
·	
Additional numbers	attached? 🔲 Yes 🗵 No
5. Name and address of party to whom correspondence concerning this document should be mailed:	6. Total number of applications and patents involved: 1
Name: H. Keith Miller, Esq.	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
Internal Address: Harness, Dickey & Pierce, P.L.C.	
THE THE PARTY OF T	Authorized to be charged by credit card
	Authorized to be charged by credit card
	Authorized to be charged to deposit account
Street Address: P.O. Box 828	☐ Authorized to be charged to deposit account ☐ Enclosed
	☐ Authorized to be charged to deposit account ☐ Enclosed
Street Address: P.O. Box 828  City: Bloomfield Hills	☐ Authorized to be charged to deposit account ☐ Enclosed ☐ None required (government interest not affecting title
	<ul> <li>☐ Authorized to be charged to deposit account</li> <li>☑ Enclosed</li> <li>☐ None required (government interest not affecting title</li> <li>8. Payment Information</li> </ul>
City: Bloomfield Hills	☐ Authorized to be charged to deposit account ☐ Enclosed ☐ None required (government interest not affecting title
City: Bloomfield Hills State; MI Zip: 48303	Authorized to be charged to deposit account  ☐ Enclosed ☐ None required (government interest not affecting title  8. Payment Information a. Credit Card Last 4 Numbers
City: Bloomfield Hills  State: MI Zip: 48303  Phone Number: 248-641-1600  Fax Number: 248-641-0270	Authorized to be charged to deposit account  Enclosed  None required (government interest not affecting title  8. Payment Information  a. Credit Card Last 4 Numbers Expiration Date
City: Bloomfield Hills  State; MI Zip: 48303  Phone Number: 248-641-1600  Fax Number: 248-641-0270  Email Address:	Authorized to be charged to deposit account  Enclosed  None required (government interest not affecting title  8. Payment Information  a. Credit Card Last 4 Numbers Expiration Date  b. Deposit Account Number 08-0750
City: Bloomfield Hills  State: MI Zip: 48303  Phone Number: 248-641-1600  Fax Number: 248-641-0270  Email Address:	Authorized to be charged to deposit account  Enclosed  None required (government interest not affecting title  8. Payment Information  a. Credit Card Last 4 Numbers Expiration Date  b. Deposit Account Number 08-0750  Authorized User Name H. Keith Miller, Esq.  December 14, 2006  Date
City: Bloomfield Hills  State; MI Zip: 48303  Phone Number: 248-641-1600  Fax Number: 248-641-0270  Email Address:	Authorized to be charged to deposit account  Enclosed  None required (government interest not affecting title  8. Payment Information  a. Credit Card Last 4 Numbers Expiration Date  b. Deposit Account Number 08-0750  Authorized User Name H. Keith Miller, Esq.  December 14, 2006

EV 757 778 542 US

**REEL: 018714 FRAME: 0926** 

Atty. Docket No. 1316N-001704

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

## Relative Axial Translation Prevention System

r.c	Blauve Axial Translation Frevention System
or which Assignor is about t	o make or has made United States or International application for patent
, ,	uted on even date preparatory to filing (each inventor should sign this gnment on the same day as he/she signs the Declaration and Power of ney);
(b) $\square$ exec	uted on,; or
	on <u>July 27, 2006</u> , and assigned Serial No. <u>11/494,272</u> or PCT national Application No;
(d) U.S.	Patent No, issued; and
	o Automotive Operating Company Inc., a Delaware corporation having a orth Field Drive, Lake Forest, Illinois 60045, hereinafter referred to as ulring an interest therein:
whereof is hereby acknowled signed and its successor and all for a large signed and all for a large signed and all for a large signed by Assigned to the extensions thereof as fully assignment and sale not be	E, for good and valuable consideration, the receipt and adequacy edged, Assignor by these presents does sell, assign and transfer unto s in interest, the full and exclusive right, title and interest in the United reign countries, including the right to claim priority under the laws of the evention, and any foreign countries, to the said invention as described in all application for patent and all Letters Patent therefor to be held and full end of the term for which said Letters Patent are granted and any and entirely as the same would have been held by Assignor had this en made, and the right to recover for past infringements of, or liabilities to any of said applications or patents resulting therefrom;
equested for the making an States and in all foreign of continuation-in-part, division examination, or extension the and to the said invention, the estify in support thereof, for above set forth;	renants and agrees to execute all instruments or documents required or and prosecution of any applications of any type for patent in the United countries including, but not limited to, any provisional, continuation, al, renewal or substitute thereof, and as to letters patent any reissue, renereof, and for litigation regarding, or for the purpose of protecting title e United States application for patent, or Letters Patent therefor, and to the benefit of Assignee without further or other compensation than that
Assignor hereby cov een or will be entered into v	venants that no assignment, sale or agreement or encumbrance has which would conflict with this Assignment; and
etters Patent of the United tountry or countries foreign polications as aforesaid, the contribute to Assignee.	quests the Commissioner of Patents and Trademarks to issue said I States of America to Assignee, and requests that any official of any to the United States, whose duty it is to issue or grant patents and to issue said Letters Patent, Utility Model Registration or Inventor's
Assignor hereby au Application No	uthorizes and requests my attorney to insert here in parentheses, filed) the filing date and application when known.

ant Walwork	NOVEMBER 10, 2006
Van T. Walworth	Date
David B. Hook	Date
	Data
Craig Whitaker	Date
Joseph C. Bacarella	Date
George Moser	Date

Atty. Docket No. 1316N-001704

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

### **Relative Axial Translation Prevention System**

			Manufa Mar Hallard Off Free From Character
or which	Assign	nor is al	bout to make or has made United States or International application for patent
(a	a) (		executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney);
(t	b) [		executed on,; or
(0	c) [		filed on <u>July 27, 2006</u> , and assigned Serial No. <u>11/494,272</u> or PCT International Application No;
(0	d) (t		U.S. Patent No, issued; and
place of 1	busine	ss at 5	nneco Automotive Operating Company Inc., a Delaware corporation having a 00 North Field Drive, Lake Forest, Illinois 60045, hereinafter referred to as f acquiring an interest therein:
whereof in the states of Justine States of Justine States States af States of the stat	is here and its Americ tates, the said appropriate the said appropriate the said and and and and and and and	by ack is succe ca and he Parisoplication ignee to eof as sale n	FORE, for good and valuable consideration, the receipt and adequacy nowledged, Assignor by these presents does sell, assign and transfer unto essors in interest, the full and exclusive right, title and interest in the United all foreign countries, including the right to claim priority under the laws of the convention, and any foreign countries, to the said invention as described in on, said application for patent and all Letters Patent therefor to be held and to the full end of the term for which said Letters Patent are granted and any fully and entirely as the same would have been held by Assignor had this of been made, and the right to recover for past infringements of, or liabilities ating to any of said applications or patents resulting therefrom;
equested States ar continuati examinati and to the	d for th nd in a ion-in-p ion, or e said i support	e maki all fore part, div extens invention	y covenants and agrees to execute all instruments or documents required or ng and prosecution of any applications of any type for patent in the United sign countries including, but not limited to, any provisional, continuation, risional, renewal or substitute thereof, and as to letters patent any reissue, reion thereof, and for litigation regarding, or for the purpose of protecting title on, the United States application for patent, or Letters Patent therefor, and to of, for the benefit of Assignee without further or other compensation than that
een orw	vill be e	ntered	y covenants that no assignment, sale or agreement or encumbrance has into which would conflict with this Assignment; and
etters Pa	atent on count	of the Latries for afores	by requests the Commissioner of Patents and Trademarks to issue said Inited States of America to Assignee, and requests that any official of any reign to the United States, whose duty it is to issue or grant patents and aid, to issue said Letters Patent, Utility Model Registration or Inventor's
A: Applications Sumber o	ssignor on No. of said a	heret	oy authorizes and requests my attorney to insert here in parentheses

Van T. Walworth	Date		
David B. Hook	710v 15, 2006 Date		
Craig Whitaker	Date		
Joseph C. Bacarella	Date		
George Moser	Date		

Atty. Docket No. 1316N-001704

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

## Relative Axial Translation Prevention System

7 E 3mm	d on even date preparatory to filing (each inventor should sign this nent on the same day as he/she signs the Declaration and Power of
(b) axecute	d on or
(c) 🗵 filed or Internat	July 27, 2006, and assigned Serial No. 11/494,272 or PCT const. Application No;
(d) 🔲 U.S. Pa	tent No issued; and
	utomotive Operating Company Inc., a Delaware corporation having a h Field Drive, Lake Forest, Illinois 60045, hereinafter referred to as ng an interest therein:
whereof is hereby acknowledge. Assignee and its successors in States of America and all foreignited States, the Paris Convertible aforesaid application, said enjoyed by Assignee to the full extensions thereof as fully an assignment and sale not been	for good and valuable consideration, the receipt and adequacy jed, Assignor by these presents does sell, assign and transfer unto a interest, the full and exclusive right, title and interest in the United go countries, including the right to claim priority under the laws of the intion, and any foreign countries, to the said invention as described in application for patent and all Letters Patent therefor to be held and I end of the term for which said Letters Patent are granted and any dentirely as the same would have been held by Assignor had this made, and the right to recover for past infringements of, or liabilities any of said applications or patents resulting therefrom;
requested for the making and States and in all foreign con- continuation-in-part, divisional, examination, or extension ther and to the said invention, the t	ants and agrees to execute all instruments or documents required or prosecution of any applications of any type for patent in the United intries including, but not limited to, any provisional, continuation, renewal or substitute thereof, and as to letters patent any reissue, recof, and for litigation regarding, or for the purpose of protecting title. Inited States application for patent, or Letters Patent therefor, and to e benefit of Assignee without further or other compensation than that
been or will be entered into whi	nants that no assignment, sale or agreement or encumbrance has ch would conflict with this Assignment; and
Letters Patent of the United S	ests the Commissioner of Patents and Trademarks to Issue said tales of America to Assignee, and requests that any official of any the United States, whose duty it is to issue or grant patents and issue said Letters Patent, Utility Model Registration or Inventor's
Assignor hereby auth (Application Nonumber of said application whe	orizes and requests my attorney to insert here in parentheses, filed) the filing date and application in known.

Page 1 of 2

PATENT REEL: 018714 FRAME: 0931

Van T. Walworth	Date
David B. Hook	Date
Craig Whitaker	11 7 2006 Date
Joseph C. Bacarella	Date
George Moser	Date

**REEL: 018714 FRAME: 0932** 

Atty. Docket No. 1316N-001704

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

## **Relative Axial Translation Prevention System**

			Neight Parisition Frevention dystem
for which	Assig	nor is a	bout to make or has made United States or International application for patent
(a	a)		executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney);
<b>(</b> b	b)		executed on; or
(c	c)	$\boxtimes$	filed on <u>July 27, 2006</u> , and assigned Serial No. <u>11/494,272</u> or PCT International Application No;
(d	(t		U.S. Patent No, issued; and
place of I	busine	ess at 5	nneco Automotive Operating Company Inc., a Delaware corporation having a 500 North Field Drive, Lake Forest, Illinois 60045, hereinafter referred to as of acquiring an interest therein:
whereof in Assignee States of United States of United States aforest enjoyed beaxtension assignme	is here and it Ameri tates, t said a by Ass as there ent and	eby ack ts succe ica and the Pari pplication pplication ignee to reof as to sale n	FORE, for good and valuable consideration, the receipt and adequacy nowledged, Assignor by these presents does sell, assign and transfer unto essors in interest, the full and exclusive right, title and interest in the United all foreign countries, including the right to claim priority under the laws of the s Convention, and any foreign countries, to the said invention as described in on, said application for patent and all Letters Patent therefor to be held and the full end of the term for which said Letters Patent are granted and any fully and entirely as the same would have been held by Assignor had this of been made, and the right to recover for past infringements of, or liabilities lating to any of said applications or patents resulting therefrom;
requested States ar continuati examinati and to the	d for the nd in in ion-in-ion, or ion, or e said suppor	ne maki all fore part, div extens invention it therec	by covenants and agrees to execute all instruments or documents required or ing and prosecution of any applications of any type for patent in the United eign countries including, but not limited to, any provisional, continuation, visional, renewal or substitute thereof, and as to letters patent any reissue, recion thereof, and for litigation regarding, or for the purpose of protecting title on, the United States application for patent, or Letters Patent therefor, and to of, for the benefit of Assignee without further or other compensation than that
een or w	vill be e	entered	by covenants that no assignment, sale or agreement or encumbrance has into which would conflict with this Assignment; and
etters Pa country o application Certificate	atent of cour ons as e to As	of the landries for afores signee.	by requests the Commissioner of Patents and Trademarks to issue said United States of America to Assignee, and requests that any official of any oreign to the United States, whose duty it is to issue or grant patents and aid, to issue said Letters Patent, Utility Model Registration or Inventor's
Application	ion No.	•	oy authorizes and requests my attorney to insert here in parentheses

Page 1 of 2

Van T. Walworth	Date
David B. Hook	Date
Craig Whitaker	Date
Joseph C. Bacarella	//- 7- 2006 Date
George Moser	Date

Atty. Docket No. 1316N-C01704

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

		Relative Axial Translation Prevention	System
for which Assig	gnor is a	bout to make or has made United States or	international application for patent
(a)	□.	executed on even date preparatory to filir Assignment on the same day as he/she si Attorney);	
(b)-		executed on,; or	•
(c)	×	filed on <u>July 27, 2006</u> , and assigned International Application No;	Serial No. <u>11/494,272</u> or PCT
(d)		U.S. Patent No, issued; and	•
place of busin	ess at 8	enneco Automotive Operating Company Inc. 500 North Field Drive, Lake Forest, Illinois of acquiring an interest therein:	
whereof is her Assignee and States of Amer United States, the aforesald a enjoyed by As extensions the assignment an	reby ack its succ rica and the Pari application signee to reof as id sale n	FORE, for good and valuable considerations from the series of the full and exclusive right to convention, and any foreign countries, to on, said application for patent and all Letter the full end of the term for which said Lefully and entirely as the same would have of been made, and the right to recover for atting to any of said applications or patents recover.	bes sell, assign and transfer unto the little and interest in the linited claim priority under the laws of the the said invention as described in the said invention as described and and atters Patent are granted and any abeen held by Assignor had this past infringements of, or liabilities
requested for the States and in continuation-in-examination, or and to the said	the mak all fore part, div r extens I invention ort therec	y covenants and agrees to execute all instring and prosecution of any applications of eign countries including, but not limited trisional, renewal or substitute thereof, and a ion thereof, and for litigation regarding, or on, the United States application for patent, of, for the benefit of Assignee without furthe	any type for patent in the United to, any provisional, continuation, s to letters patent any reissue, refor the purpose of protecting title or Letters Patent therefor, and to
Assignation been or will be	or hereb entered	y covenants that no assignment, sale or into which would conflict with this Assignme	agreement or encumbrance has nt; and
Letters Patent	of the Untries for afores	y requests the Commissioner of Patents Inited States of America to Assignee, and preign to the United States, whose duty it aid, to issue said Letters Patent, Utility i	requests that any official of any is to issue or grant patents and
Assigno (Application No	or herek	oy authorizes and requests my attorney , filed ion when known.	to insert here in parentheses) the filing date and application

Page 1 of 2

Van T. Walworth	Date
David B. Hook	Date
Craig Whitaker	Date
Joseph C. Bacarella	Date
George Moser	11-20-06 Date

Page 2 of 2

RECORDED: 12/14/2006 | REEL: 018714 FRAME: 0936