A/D 581-40

JC14 Rec'd FOTIPTO 27 OCT 2005

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Form PTO-1595 (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008)		7-2006	U.S. DEPARTMENT OF COMMERCI United States Patent and Trademark O
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mas 10-27-05	10323	38160 .	
			cuments or the new address(es) below.
1. Name of conveying party(ies)		2. Name and address of receiving party(ies)	
RICHARD W. VEHAR		Name: UNION SWITCH & SIGNAL, INC.	
RAYMOND C. FRANKE		Internal Address: _	
Additional name(s) of conveying party(ies)	attached? Yes V No		
3. Nature of conveyance/Execution Date(s):			000 TECHNOLOGY DRIV
Execution Date(s) October 21, 20			
✓ Assignment	∐ Merger	City DITTORUE	
Security Agreement Change of Name		City: PITTSBURGH	
☐ Joint Research Agreement		State: <b>PA</b>	<u> </u>
Government Interest Assignm		Country: US	Zip: <b>15219-3120</b>
Executive Order 9424, Confirm	natory License		
Other  4. Application or patent number			address(es) attached? Yes
A. Patent Application No.(s)	(S):  Inis	B. Patent No.(s	led together with a new applicati
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00000071 10334073 021 40.00 DP			
10100 5.	)	 tached?	_
5 Name and address to whom o			f applications and patents
5. Name and address to whom correspondence concerning document should be mailed:		involved: 1	applications and paterits
Name:Kirk D. Houser Internal Address:		7. Total fee (37 CF	R 1.21(h) & 3.41) \$ <b>40.00</b>
		l ——	be charged by credit card
		1 —	be charged to deposit account
Street Address: Eckert Seamans Che	erin & Mellott, LLC	Enclosed	
600 Grant St., 44th Floor		None required	(government interest not affecting t
City: Pittsburgh		8. Payment Information	
State: PA Z		a. Credit Card	Last 4 Numbers 1014
Phone Number: 412.566.6083			Expiration Date <u>02/07</u>
Fax Number: 412.566.6099 Email Address: ipmail@eckertseamans.com		b. Deposit Acco	ount Number
		Authorized U	ser Name
9. Signature:		1	
1-11	Signature		October 27, 2005 Date
Kirk D. Houser	Reg. No. 37,357	7 Total	number of pages including cover
Name of F	Jorgen Ciamina		t. attachments, and documents:

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

PATENT REEL: 017851 FRAME: 0032

## ASSIGNMENT

WHEREAS, We, RICHARD W. VEHAR; and RAYMOND C. FRANKE, residing at 1808 Gibson Drive, Sewickley, Pennsylvania 15143; and 1822 Park Circle Drive, Glenshaw, Pennsylvania 15166, respectively, have invented certain new and useful improvements in METHOD AND SYSTEM PROVIDING SLEEP AND WAKE-UP MODES FOR RAILWAY TRACK CIRCUIT UNIT, for which we are the inventors of the invention disclosed and claimed in an International Application for Letters Patent which is identifiable in the United States Patent and Trademark Office by International Application No. PCT/US2004/013021, with an International Filing Date of April 28, 2004;

AND WHEREAS, UNION SWITCH & SIGNAL, INC., a Delaware Corporation, having a place of business at 1000 Technology Drive, Pittsburgh, PA 15219-3120, hereinafter called the "assignee", is desirous of acquiring the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed;

NOW, THEREFORE, in consideration of One (\$1.00) Dollar and other good and valuable consideration paid to us by said assignee, receipt whereof we hereby acknowledge, we do hereby assign, sell, transfer, and set over unto said assignee the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, renewals, and/or extensions thereof including all priority rights under the International Convention associated therewith for each country and the Union, said assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this assignment not been made.

The Commissioner of Patents and Trademarks is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application, inventions, and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the said inventions or improvements or any of them, and that we have the full right to make this assignment.

And for the consideration aforesaid, we agree that we will communicate to said assignee or the representatives thereof any facts known to us respecting said inventions and improvements, and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said assignee or by counsel for said assignee, to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said assignee.

1 of 2

executed Oct 21	, 2005.			
Lichard Wehan				
RICHARD W. VEHAR				
Commonwealth of Pennsylvania :	SS:			
County of Allegheny :				
personally appeared RICHARD W. VI	and for the said County and Commonwealth, EHAR, who acknowledged that he is the person who acknowledged it to be his free and voluntary act and			
Witness my hand and notarial section of Prince And Andrew	eal this <u>2/57</u> day of <u>OCTOBER</u> ,			
EXECUTED Oct 21,05	, 2005.			
Raymond Cot ronke RAYMOND C. FRANKE				
Commonwealth of Pennsylvania :	SS:			
County of Allegheny :				
personally appeared RAYMOND C. F	nd for the said County and Commonwealth, RANKE, who acknowledged that he is the person and acknowledged it to be his free and voluntary act			
Witness my hand and notarial se	eal this $\frac{2/ST}{}$ day of $\frac{OCTOBER}{}$			
2005. Worary Public (Notarial Seal)				
COMMONWEALTH OF PENNSYLVANIA				
Notarial Seal Linda M. Fry, Notary Public City of Pittsburgh, Allegheny County My Commission Expires Mar. 18, 2006				

2 of 2

Member, Pennsylvania Association of Notaries

Attorney Docket No. 283359003703 U.S. DEPARTMENT OF COMMERCE Form PTO-1595 (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008) United States Patent and Trademark Office RECORDATION FORM COVER SHEET PATENTS ONLY To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below. 1. Name of conveying party(ies) 2. Name and address of receiving party(ies) Name: UNION SWITCH & SIGNAL, INC. RICHARD W. VEHAR RAYMOND C. FRANKE Internal Address: Additional name(s) of conveying party(ies) attached? Yes 🗸 No 3. Nature of conveyance/Execution Date(s): Street Address: 1000 TECHNOLOGY DRIVE Execution Date(s) October 21, 2005 ✓ Assignment Merger City: **PITTSBURGH**  J Security Agreement L Change of Name State: PA\_\_\_ Government Interest Assignment Country: **US** Zip: **15219-3120** Executive Order 9424, Confirmatory License Other Additional name(s) & address(es) attached? ☐ Yes ☑ No 4. Application or patent number(s): This document is being filed together with a new application. A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? Yes ✓ No 5. Name and address to whom correspondence 6. Total number of applications and patents concerning document should be mailed: involved:\_1 Name: Kirk D. Houser 7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00 Internal Address: ✓ Authorized to be charged by credit card Authorized to be charged to deposit account Street Address: Eckert Seamans Cherin & Mellott, LLC None required (government interest not affecting title) 600 Grant St., 44th Floor 8. Payment Information City: **Pittsburgh** a. Credit Card Last 4 Numbers 1014 State: **PA** Zip:**15219** Expiration Date 02/07

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Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

Signature

Kirk D. Houser, Reg. No. 37,357

Name of Person Signing

b. Deposit Account Number \_\_\_\_

Authorized User Name

Phone Number: 412.566.6083

Email Address: ipmail@eckertseamans.com

RECORDED: 10/27/2005

Fax Number: 412.566.6099

9. Signature:

PATENT REEL: 017851 FRAME: 0035

October 27, 2005

Total number of pages including cover

sheet, attachments, and documents: