

Client/Matter/Country/Subcase Country Name	Case Type	Application Number/Date	Publication Number/Date	Patent Number/Date	Status Expiration Date	PCT Nat. Phase Date
1013/06/US/01 United States of America	ORD	07/823,585 16-Jan-1992		5,172,638 22-Dec-1992	Granted 16-Jan-2012	
		Owner Name:			Attorney(s): JHP	
		Client: Loram Maintenance of Way, Inc.			Client Ref:	
		Agent Name:			Agent Ref:	
		Title: DUST SUPPRESSION SYSTEM FOR RAILROAD TRACK BALLAST CLEANING APPARATUS				
1013/12/US/01 United States of America	ORD	08/788,019 24-Jan-1997		5,793,492 11-Aug-1998	Granted 24-Jan-2017	
		Owner Name: Loram Maintenance of Way, Inc.			Attorney(s): JHP	
		Client: Loram Maintenance of Way, Inc.			Client Ref:	
		Agent Name:			Agent Ref:	
		Title: WHEEL PROFILE SENSOR				
1013/15/US/01 United States of America	ORD	08/000,840 05-Jan-1993		5,347,933 20-Sep-1994	Granted 05-Jan-2013	
		Owner Name:			Attorney(s): JHP	
		Client: Loram Maintenance of Way, Inc.			Client Ref:	
		Agent Name:			Agent Ref:	
		Title: RAILWAY BALLAST CLEANING MACHINE WITH INTEGRATED HOPPER CAR				
1013/29/AT/02 Austria	DIV	901117770 31-Aug-1988		0397215B1 13-Oct-1993	Granted 26-Feb-2012	LLP
		Owner Name:			Attorney(s): JHP	
		Client: Loram Maintenance of Way, Inc.			Client Ref:	
		Agent Name: Strehl Schubel-Hopf Groening			Agent Ref:	
		Title: RAIL GRINDING MACHINE				

Client/Matter/Country/Subcase Country Name	Case Type	Application Number/Date	Publication Number/Date	Patent Number/Date	Status Expiration Date	PCT Nat. Phase Date
1013/29/EP/01 European Patent Convention	ORD	881142152 31-Aug-1988		0304960 26-Feb-1992	Granted	
	Owner Name:			Attorney(s): JHP		LLP
	Client: Loram Maintenance of Way, Inc.			Client Ref:		
	Agent Name: Strehl Schubel-Hopf Groening			Agent Ref:		
	Title: RAIL GRINDING MACHINE					
1013/29/EP/02 European Patent Convention	PCT	901117770 31-Aug-1988		0397215B1 13-Oct-1993	Granted 13-Oct-2013	
	Owner Name:			Attorney(s): JHP		LLP
	Client: Loram Maintenance of Way, Inc.			Client Ref:		
	Agent Name: Strehl Schubel-Hopf Groening			Agent Ref:		
	Title: RAIL GRINDING MACHINE					
1013/29/DE/02 Germany	DIV	901117770 31-Aug-1988		0397215B1 13-Oct-1993	Granted 26-Feb-2012	
	Owner Name:			Attorney(s): JHP		LLP
	Client: Loram Maintenance of Way, Inc.			Client Ref:		
	Agent Name: Strehl Schubel-Hopf Groening			Agent Ref:		
	Title: RAIL GRINDING MACHINE					
1013/29/IT/02 Italy	DIV	901117770 31-Aug-1988		0397215B1 13-Oct-1993	Granted 26-Feb-2012	
	Owner Name:			Attorney(s): JHP		LLP
	Client: Loram Maintenance of Way, Inc.			Client Ref:		
	Agent Name: Strehl Schubel-Hopf Groening			Agent Ref:		
	Title: RAIL GRINDING MACHINE					

Client/Matter/Country/Subcase Country Name	Case Type	Application Number/Date	Publication Number/Date	Patent Number/Date	Status Expiration Date	PCT Nat. Phase Date
1013/30/EP/WO European Patent Convention	PCT	889102299 14-Oct-1988		0395688 15-Dec-1993	Granted	
	Owner Name:			Attorney(s): JHP		LLP
	Client: Loram Maintenance of Way, Inc.			Client Ref:		
	Agent Name: Strehl Schubel-Hopf Groening			Agent Ref:		
	Title: RAIL GRINDING MACHINE					
1013/33/US/01 United States of America	ORD	636,610 28-Dec-1990		5,131,798 21-Jul-1992	Granted 28-Dec-2010	
	Owner Name:			Attorney(s): JHP		
	Client: Loram Maintenance of Way, Inc.			Client Ref:		
	Agent Name:			Agent Ref:		
	Title: RAILROAD CAR CONVEYOR					
1013/57/US/02 United States of America	PFP	09/118,278 17-Jul-1998		6,033,291 07-Mar-2000	Granted 16-Mar-2018	
	Owner Name: Loram Maintenance of Way, Inc.			Attorney(s): JHP		
	Client: Loram Maintenance of Way, Inc.			Client Ref:		
	Agent Name:			Agent Ref:		
	Title: OFFSET RAIL GRINDING					
1013/62/US/02 United States of America	PFP	09/950,277 10-Sep-2001		6,719,616 13-Apr-2004	Granted 01-Jan-2022	
	Owner Name: Loram Maintenance of Way, Inc.			Attorney(s): JHP		
	Client: Loram Maintenance of Way, Inc.			Client Ref:		
	Agent Name:			Agent Ref:		
	Title: RAIL GRINDING APPARATUS					

Client/Matter/Country/Subcase Country Name	Case Type	Application Number/Date	Publication Number/Date	Patent Number/Date	Status Expiration Date	PCT Nat. Phase Date
1013/64/DE/WOEP Germany	EPC	027842913 25-Oct-2002		1444401 02-Dec-2009	Granted 25-Oct-2022	
	Owner Name:	Loram Maintenance of Way, Inc.		Attorney(s):	JHP JPH	LLP
	Client:	Loram Maintenance of Way, Inc.		Client Ref:		
	Agent Name:			Agent Ref:		
	Title:	METHOD AND APPARATUS FOR NON-INTERRUPTED GRINDING OF RAILROAD CROSSING AND MAIN LINE TRACK				
1013/64/GB/WOEP United Kingdom	EPC	027842913 25-Oct-2002		1444401 02-Dec-2009	Granted 25-Oct-2022	
	Owner Name:	Loram Maintenance of Way, Inc.		Attorney(s):	JHP JPH	LLP
	Client:	Loram Maintenance of Way, Inc.		Client Ref:		
	Agent Name:			Agent Ref:		
	Title:	METHOD AND APPARATUS FOR NON-INTERRUPTED GRINDING OF RAILROAD CROSSING AND MAIN LINE TRACK				
1013/64/US/02 United States of America	PFP	10/281,057 25-Oct-2002	03/0083001 01-May-2003	7,156,723 02-Jan-2007	Granted 25-Oct-2022	
	Owner Name:	Loram Maintenance of Way, Inc.		Attorney(s):	JHP	
	Client:	Loram Maintenance of Way, Inc.		Client Ref:		
	Agent Name:			Agent Ref:		
	Title:	METHOD AND APPARATUS FOR NON-INTERRUPTED GRINDING OF RAILROAD CROSSING AND MAIN LINE TRACK				
1013/66/US/02 United States of America	PFP	10/320,755 16-Dec-2002	19-Jun-2003	6,823,614 30-Nov-2004	Granted 18-Feb-2023	
	Owner Name:	Loram Maintenance of Way, Inc.		Attorney(s):	JHP	
	Client:	Loram Maintenance of Way, Inc.		Client Ref:		
	Agent Name:			Agent Ref:		
	Title:	SNOW REMOVAL APPARATUS				

Client/Matter/Country/Subcase Country Name	Case Type	Application Number/Date	Publication Number/Date	Patent Number/Date	Status Expiration Date	PCT Nat. Phase Date
1013/68/US/01 United States of America	ORD	10/365,565 12-Feb-2003		6,769,365 03-Aug-2004	Granted 12-Feb-2023	
		Owner Name:			Attorney(s): JHP	
		Client: Loram Maintenance of Way, Inc.			Client Ref:	
		Agent Name:			Agent Ref:	
		Title: SYSTEM AND METHOD FOR ON SITE MAINTENANCE OF RAILCAR WHEELS				
1013/73/CA/WO Canada	PCT	2,577,357 22-Aug-2005	02-Mar-2006	2,577,357 18-Oct-2011	Granted 22-Aug-2025	19-Feb-2007 LLP
		Owner Name:			Attorney(s): JHP	
		Client: Loram Maintenance of Way, Inc.			Client Ref:	
		Agent Name: MacPherson Leslie & Tyerman LLP (MLT)			Agent Ref: 042907-0003	
		Title: LONG RAIL PICK-UP AND DELIVERY SYSTEM				
1013/73/US/02 United States of America	PFP	11/209,188 22-Aug-2005	06/0102042 18-May-2006	7,350,467 01-Apr-2008	Granted 23-Sep-2025	
		Owner Name:			Attorney(s): JHP	
		Client: Loram Maintenance of Way, Inc.			Client Ref:	
		Agent Name:			Agent Ref:	
		Title: LONG RAIL PICK-UP AND DELIVERY SYSTEM				
1013/73/US/03 United States of America	CON	12/053,981 24-Mar-2008	08/0163781 10-Jul-2008	7,895,950 01-Mar-2011	Granted 22-Aug-2025	
		Owner Name:			Attorney(s): JHP	
		Client: Loram Maintenance of Way, Inc.			Client Ref:	
		Agent Name:			Agent Ref:	
		Title: LONG RAIL PICK-UP AND DELIVERY SYSTEM				

Client/Matter/Country/Subcase Country Name	Case Type	Application Number/Date	Publication Number/Date	Patent Number/Date	Status Expiration Date	PCT Nat. Phase Date
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1013/77/US/02 United States of America	PFP	12/535,425 04-Aug-2009	10/0293819 25-Nov-2010	7,845,098 07-Dec-2010	Granted 04-Aug-2029	
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Owner Name: **Attorney(s):** JHP JPH
Client: Loram Maintenance of Way, Inc. **Client Ref:**
Agent Name: **Agent Ref:**
Title: ROTARY UNDERCUTTER FOR RAIL LINE MAINTENANCE

1013/77/US/03 United States of America	CON	12/961,113 06-Dec-2010	11/0072692 31-Mar-2011	7,987,620 02-Aug-2011	Granted 04-Aug-2029	
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Owner Name: **Attorney(s):** JHP JPH
Client: Loram Maintenance of Way, Inc. **Client Ref:**
Agent Name: **Agent Ref:**
Title: ROTARY UNDERCUTTER FOR RAIL LINE MAINTENANCE

1013/82/US/01 United States of America	ORD	10/894,198 19-Jul-2004		6,953,386 11-Oct-2005	Granted 19-Jul-2024	
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Owner Name: **Attorney(s):** JHP
Client: Loram Maintenance of Way, Inc. **Client Ref:**
Agent Name: **Agent Ref:**
Title: ACTIVE SPARK CONTROL

1013/83/US/01 United States of America	ORD	10/980,409 03-Nov-2004		6,981,907 03-Jan-2006	Granted 03-Nov-2024	
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Owner Name: **Attorney(s):** JHP
Client: Loram Maintenance of Way, Inc. **Client Ref:**
Agent Name: **Agent Ref:**
Title: HIGH ANGLE GRINDER

Client/Matter/Country/Subcase Country Name	Case Type	Application Number/Date	Publication Number/Date	Patent Number/Date	Status Expiration Date	PCT Nat. Phase Date
4501/03/AU/WO Australia	PCT	31106/99 22-Mar-1999		737193 22-Nov-2001	Granted 22-Mar-2019	28-Sep-2000
		Owner Name:		Attorney(s): JPH		LLP
		Client: Tranergy, Inc.		Client Ref:		
		Agent Name: Collison & Co.		Agent Ref: 52311 GEH		
		Title: TOP-OF-RAIL LUBRICATION RATE CONTROL BY THE HYDRAULIC PULSE WIDTH MODULATION METHOD				
4501/03/BR/WO Brazil	PCT	PI9909035-0 22-Mar-1999		PI9909035-0 15-Aug-2006	Granted 22-Mar-2019	22-Sep-2000
		Owner Name:		Attorney(s): JPH		LLP
		Client: Tranergy, Inc.		Client Ref:		
		Agent Name: Dannemann Siemsen Bigler & *		Agent Ref: P106429		
		Title: TOP-OF-RAIL LUBRICATION RATE CONTROL BY THE HYDRAULIC PULSE WIDTH MODULATION METHOD				
4501/03/CA/WO Canada	PCT	2,325,520 22-Mar-1999	30-Sep-1999	2,325,520 09-Jun-2009	Granted 22-Mar-2019	21-Sep-2000
		Owner Name:		Attorney(s): JPH		LLP
		Client: Tranergy, Inc.		Client Ref:		
		Agent Name: Riches, McKenzie & Herbert		Agent Ref: P163200		
		Title: TOP-OF-RAIL LUBRICATION RATE CONTROL BY THE HYDRAULIC PULSE WIDTH MODULATION METHOD				
4501/03/FR/WOEP France	EPP	99912818.4 22-Mar-1999	1071599 31-Jan-2001	1071599 08-Sep-2004	Granted 22-Mar-2019	
		Owner Name:		Attorney(s): JPH		LLP
		Client: Tranergy, Inc.		Client Ref:		
		Agent Name: Bromhead Johnson		Agent Ref:		
		Title: TOP-OF-RAIL LUBRICATION RATE CONTROL BY THE HYDRAULIC PULSE WIDTH MODULATION METHOD				

Client/Matter/Country/Subcase Country Name	Case Type	Application Number/Date	Publication Number/Date	Patent Number/Date	Status Expiration Date	PCT Nat. Phase Date
4501/03/DE/WOEP Germany	EPP	99912818.4 22-Mar-1999	1071599 31-Jan-2001	1071599 08-Sep-2004	Granted 22-Mar-2019	
		Owner Name:			Attorney(s): JPH	LLP
		Client: Tranergy, Inc.			Client Ref:	
		Agent Name: Bromhead Johnson			Agent Ref:	
		Title: TOP-OF-RAIL LUBRICATION RATE CONTROL BY THE HYDRAULIC PULSE WIDTH MODULATION METHOD				
4501/03/ZA/WO South Africa	PCT	2000/4962 22-Mar-1999		2000/4962 25-Jul-2001	Granted 22-Mar-2019	18-Sep-2000
		Owner Name:			Attorney(s): JPH	LLP
		Client: Tranergy, Inc.			Client Ref:	
		Agent Name: Spoor and Fisher			Agent Ref: PA129536/ZA	
		Title: TOP-OF-RAIL LUBRICATION RATE CONTROL BY THE HYDRAULIC PULSE WIDTH MODULATION METHOD				
4501/03/GB/WOEP United Kingdom	EPP	99912818.4 22-Mar-1999	1071599 31-Jan-2001	1071599 08-Sep-2004	Granted 22-Mar-2019	
		Owner Name:			Attorney(s): JPH	LLP
		Client: Tranergy, Inc.			Client Ref:	
		Agent Name: Bromhead Johnson			Agent Ref:	
		Title: TOP-OF-RAIL LUBRICATION RATE CONTROL BY THE HYDRAULIC PULSE WIDTH MODULATION METHOD				
4501/03/US/01 United States of America	ORD	09/046,195 23-Mar-1998		6,076,637 20-Jun-2000	Granted 23-Mar-2018	
		Owner Name:			Attorney(s): JPH	
		Client: Tranergy, Inc.			Client Ref:	
		Agent Name:			Agent Ref:	
		Title: TOP-OF-RAIL LUBRICATION RATE CONTROL BY THE HYDRAULIC PULSE WIDTH MODULATION METHOD				

Client/Matter/Country/Subcase Country Name	Case Type	Application Number/Date	Publication Number/Date	Patent Number/Date	Status Expiration Date	PCT Nat. Phase Date
4501/03/US/02 United States of America	DIV	09/594,970 15-Jun-2000		6,170,610 09-Jan-2001	Granted 23-Mar-2018	
Owner Name:				Attorney(s): JPH		
Client: Tranergy, Inc.				Client Ref:		
Agent Name:				Agent Ref:		
Title: TOP-OF-RAIL LUBRICATION RATE CONTROL RESPONSIVE TO BRAKE APPLICATION						
4501/03/US/03 United States of America	CON	09/595,261 15-Jun-2000		6,199,661 13-Mar-2001	Granted 23-Mar-2018	
Owner Name:				Attorney(s): JPH		
Client: Tranergy, Inc.				Client Ref:		
Agent Name:				Agent Ref:		
Title: TOP-OF-RAIL LUBRICATION RATE CONTROL BY THE HYDRAULIC PULSE WIDTH MODULATION METHOD						
4501/04/CA/01 Canada	ORD	2,482,073 17-Sep-2004	03-Apr-2005	2,482,073 29-Nov-2011	Granted 17-Sep-2024	LLP
Owner Name:				Attorney(s): JPH		
Client: Tranergy, Inc.				Client Ref:		
Agent Name: Dennison Associates				Agent Ref: 12453CA		
Title: WHEEL SENSOR ASSEMBLY FOR RAIL BASE MOUNTING						
4501/04/US/01 United States of America	ORD	10/679,009 03-Oct-2003	05/0072252 07-Apr-2005	7,216,558 15-May-2007	Granted 18-Jun-2024	
Owner Name:				Attorney(s): JPH		
Client: Tranergy, Inc.				Client Ref:		
Agent Name:				Agent Ref:		
Title: WHEEL SENSOR ASSEMBLY FOR RAIL BASE MOUNTING						

Client/Matter/Country/Subcase Country Name	Case Type	Application Number/Date	Publication Number/Date	Patent Number/Date	Status Expiration Date	PCT Nat. Phase Date
4501/04/US/02 United States of America	CON	11/744,567 04-May-2007	07/0204705 06-Sep-2007	7,717,004 18-May-2010	Granted 16-Mar-2024	
		Owner Name:			Attorney(s): JPH	
		Client: Tranergy, Inc.			Client Ref:	
		Agent Name:			Agent Ref:	
		Title: WHEEL SENSOR ASSEMBLY FOR RAIL BASE MOUNTING				
4501/05/AU/01 Australia	ORD	2006200213 18-Jan-2006	25-Aug-2011	2006200213 08-Dec-2011	Granted 18-Jan-2026	
		Owner Name:			Attorney(s): JPH	LLP
		Client: Tranergy, Inc.			Client Ref:	
		Agent Name: Spruson & Ferguson			Agent Ref: 749376	
		Title: GAGE SIDE OR FIELD SIDE TOP-OF-RAIL PLUS GAGE CORNER LUBRICATION SYSTEM				
4501/05/EP/01 European Patent Convention	ORD	06250379.2 24-Jan-2006	1683699 26-Jul-2006	1683699 16-Nov-2011	Granted 24-Jan-2026	
		Owner Name:			Attorney(s): JPH	LLP
		Client: Tranergy, Inc.			Client Ref:	
		Agent Name: Bromhead Johnson			Agent Ref: MDS/anm	
		Title: GAGE SIDE OR FIELD SIDE TOP-OF-RAIL PLUS GAGE CORNER LUBRICATION SYSTEM				
4501/05/US/01 United States of America	ORD	11/042,302 24-Jan-2005	06/0163004 27-Jul-2006	7,735,607 15-Jun-2010	Granted 05-Dec-2027	
		Owner Name:			Attorney(s): JPH	
		Client: Tranergy, Inc.			Client Ref:	
		Agent Name:			Agent Ref:	
		Title: GAGE SIDE OR FIELD SIDE TOP-OF-RAIL PLUS GAGE CORNER LUBRICATION SYSTEM				

Client/Matter/Country/Subcase Country Name	Case Type	Application Number/Date	Publication Number/Date	Patent Number/Date	Status Expiration Date	PCT Nat. Phase Date
4501/06/AU/01 Australia	ORD	69828/98 02-Jun-1998		739836 31-Jan-2002	Granted 02-Jun-2018	
	Owner Name:			Attorney(s): JPH		LLP
	Client: Tranergy, Inc.			Client Ref:		
	Agent Name: Collison & Co.			Agent Ref: 49036 GEH		
	Title: ON BOARD LUBRICATION SYSTEMS FOR LUBRICATING TOP OF RAIL FOR CARS & RAIL GAGE SIDE/WHEEL FLANGE FOR LOCOMOTIVES					
4501/06/CA/01 Canada	ORD	2,235,640 23-Apr-1998	05-Dec-1998	2,235,640 23-Nov-2004	Granted 23-Apr-2018	
	Owner Name:			Attorney(s): JPH		LLP
	Client: Tranergy, Inc.			Client Ref:		
	Agent Name: Riches, McKenzie & Herbert			Agent Ref: P50398		
	Title: ON BOARD LUBRICATION SYSTEMS FOR LUBRICATING TOP OF RAIL FOR CARS & RAIL GAGE SIDE/WHEEL FLANGE FOR LOCOMOTIVES					
4501/06/IN/01 India	ORD	1201/MAS/1998 03-Jun-1998		217227 26-Mar-2008	Granted 03-Jun-2018	
	Owner Name:			Attorney(s): JPH		LLP
	Client: Tranergy, Inc.			Client Ref:		
	Agent Name: De Penning & De Penning			Agent Ref: RRN/ak		
	Title: ON BOARD LUBRICATION SYSTEMS FOR LUBRICATING TOP OF RAIL FOR CARS & RAIL GAGE SIDE/WHEEL FLANGE FOR LOCOMOTIVES					
4501/06/ZA/01 South Africa	ORD	98/3768 05-May-1998		98/3768 28-Apr-1999	Granted 05-May-2018	
	Owner Name:			Attorney(s): JPH		LLP
	Client: Tranergy, Inc.			Client Ref:		
	Agent Name: Spoor and Fisher			Agent Ref: PA116781/ZA		
	Title: ON BOARD LUBRICATION SYSTEMS FOR LUBRICATING TOP OF RAIL FOR CARS & RAIL GAGE SIDE/WHEEL FLANGE FOR LOCOMOTIVES					

Client/Matter/Country/Subcase Country Name	Case Type	Application Number/Date	Publication Number/Date	Patent Number/Date	Status Expiration Date	PCT Nat. Phase Date
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4501/06/US/01 United States of America	ORD	08/870,047 05-Jun-1997		5,896,947 27-Apr-1999	Granted 05-Jun-2017	
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Owner Name:**Client:** Tranergy, Inc.**Agent Name:****Title:** ON BOARD LUBRICATION SYSTEMS FOR LUBRICATING TOP OF RAIL FOR CARS & RAIL GAGE SIDE/WHEEL, FLANGE FOR LOCOMOTIVES**Attorney(s):** JPH**Client Ref:****Agent Ref:**

4501/08/US/01 United States of America	ORD	08/212,768 15-Mar-1994		5,477,941 26-Dec-1995	Granted 15-Mar-2014	
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Owner Name:**Client:** Tranergy, Inc.**Agent Name:****Title:** ON-BOARD LUBRICATION SYSTEM FOR DIRECT APPLICATION TO CURVED AND TANGENT RAILROAD TRACK**Attorney(s):** JPH**Client Ref:****Agent Ref:**

4501/09/US/02 United States of America	PFP	11/744,058 03-May-2007	07/0256998 08-Nov-2007	7,694,833 13-Apr-2010	Granted 03-Aug-2027	
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Owner Name:**Client:** Tranergy, Inc.**Agent Name:****Title:** FRICTION MODIFIER APPLICATOR SYSTEM FOR TRAVELING CRANES**Attorney(s):** JPH**Client Ref:****Agent Ref:**

4501/10/AU/WO Australia	PCT	64705/01 21-May-2001		770631 10-Jun-2004	Granted 21-May-2021	22-Jan-2002
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Owner Name:**Client:** Tranergy, Inc.**Agent Name:** Collison & Co.**Title:** WAYSIDE WHEEL LUBRICATOR**Attorney(s):** JPH**Client Ref:****Agent Ref:** 53487 GEH

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4501/10/CA/WO Canada	PCT	2,375,907 21-May-2001	06-Dec-2001	2,375,907 13-Apr-2010	Granted 21-May-2021	24-Jan-2002
Owner Name:				Attorney(s): JPH		LLP
Client: Tranergy, Inc.				Client Ref:		
Agent Name: Riches, McKenzie & Herbert				Agent Ref: P2702		
Title: WAYSIDE WHEEL LUBRICATOR						
4501/10/IN/WO India	PCT	IN/PCT/2002/164/CHE 21-May-2001		212867 17-Dec-2007	Granted 21-May-2021	29-Jan-2002
Owner Name:				Attorney(s): JPH		LLP
Client: Tranergy, Inc.				Client Ref:		
Agent Name: De Penning & De Penning				Agent Ref: GB/RN		
Title: WAYSIDE WHEEL LUBRICATOR						
4501/10/ZA/WO South Africa	PCT	2002/0608 21-May-2001		2002/0608 26-Mar-2003	Granted 21-May-2021	23-Jan-2002
Owner Name:				Attorney(s): JPH		LLP
Client: Tranergy, Inc.				Client Ref:		
Agent Name: Spoor and Fisher				Agent Ref: PA132452/ZA		
Title: WAYSIDE WHEEL LUBRICATOR						
4501/10/US/01 United States of America	ORD	09/583,308 30-May-2000		6,585,085 01-Jul-2003	Granted 30-May-2020	
Owner Name:				Attorney(s): JPH		
Client: Tranergy, Inc.				Client Ref:		
Agent Name:				Agent Ref:		
Title: WAYSIDE WHEEL LUBRICATOR						

Client/Matter/Country/Subcase Country Name	Case Type	Application Number/Date	Publication Number/Date	Patent Number/Date	Status Expiration Date	PCT Nat. Phase Date
4501/11/US/01 United States of America	ORD	10/447,635 29-May-2003	04/0238281 02-Dec-2004	7,513,335 07-Apr-2009	Granted 29-May-2023	

Owner Name:**Client:** Tranergy, Inc.**Agent Name:****Title:** RAILROAD SWITCH LUBRICATOR**Attorney(s):** JPH**Client Ref:****Agent Ref:**