

LORAM MAINTENANCE OF WAY, INC. – PATENT LIST 2017

Status	Patent Number	Issue Date	Title
Granted	5,793,492	11-Aug-1998	WHEEL PROFILE SENSOR
Granted	6,033,291	07-Mar-2000	OFFSET RAIL GRINDING
Granted	7,156,723	02-Jan-2007	METHOD AND APPARATUS FOR NON-INTERRUPTED GRINDING OF RAILROAD CROSSING AND MAIN LINE TRACK
Granted	1444401	02-Dec-2009	METHOD AND APPARATUS FOR NON-INTERRUPTED GRINDING OF RAILROAD CROSSING AND MAIN LINE TRACK
Granted	7,350,467	01-Apr-2008	LONG RAIL PICK-UP AND DELIVERY SYSTEM
Granted	7,895,950	01-Mar-2011	LONG RAIL PICK-UP AND DELIVERY SYSTEM
Granted	2,577,357	18-Oct-2011	LONG RAIL PICK-UP AND DELIVERY SYSTEM
Granted	ZL2005800342 73.2	06-Mar-2013	LONG RAIL PICK-UP AND DELIVERY SYSTEM
Granted	1799909	09-Mar-2016	LONG RAIL PICK-UP AND DELIVERY SYSTEM
Granted	1799909	09-Mar-2016	LONG RAIL PICK-UP AND DELIVERY SYSTEM
Granted	1799909	09-Mar-2016	LONG RAIL PICK-UP AND DELIVERY SYSTEM
Granted	1799909	09-Mar-2016	LONG RAIL PICK-UP AND DELIVERY SYSTEM
Granted	1799909	09-Mar-2016	LONG RAIL PICK-UP AND DELIVERY SYSTEM
Granted	7,845,098	07-Dec-2010	ROTARY UNDERCUTTER FOR RAIL LINE MAINTENANCE
Granted	7,987,620	02-Aug-2011	ROTARY UNDERCUTTER FOR RAIL LINE MAINTENANCE
Granted	2432935	30-Nov-2016	ROTARY UNDERCUTTER FOR RAIL LINE MAINTENANCE
Granted	2432935	30-Nov-2016	ROTARY UNDERCUTTER FOR RAIL LINE MAINTENANCE
Granted	2432935	30-Nov-2016	ROTARY UNDERCUTTER FOR RAIL LINE MAINTENANCE
Granted	2432935	30-Nov-2016	ROTARY UNDERCUTTER FOR RAIL LINE MAINTENANCE
Granted	2432935	30-Nov-2016	ROTARY UNDERCUTTER FOR RAIL LINE MAINTENANCE
Granted	6,953,386	11-Oct-2005	ACTIVE SPARK CONTROL
Granted	6,981,907	03-Jan-2006	HIGH ANGLE GRINDER
Granted	2013209555	10-Dec-2015	METHOD AND APPARATUS FOR MILLING OF RAILROAD TRACK
Granted	D721,989	03-Feb-2015	RAIL LUBRICATION BAR

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Granted	367547	07-Mar-2016	GAUGE FACE LUBRICATION BAR
Granted	367548	07-Mar-2016	GAUGE FACE LUBRICATION BAR
Granted	ZL2016300490 57.0	29-Mar-2017	GAUGE FACE LUBRICATION BAR
Granted	001446702- 0001	26-Feb-2016	GAUGE FACE LUBRICATION BAR
Granted	001446702- 0002	26-Feb-2016	GAUGE FACE LUBRICATION BAR
Granted	A2016/00249	26-Sep-2016	GAUGE FACE LUBRICATION BAR
Granted	A2016/00248	26-Sep-2016	GAUGE FACE LUBRICATION BAR
Granted	6,076,637	20-Jun-2000	TOP-OF-RAIL LUBRICATION RATE CONTROL BY THE HYDRAULIC PULSE WIDTH MODULATION METHOD
Granted	6,170,610	09-Jan-2001	TOP-OF-RAIL LUBRICATION RATE CONTROL RESPONSIVE TO BRAKE APPLICATION
Granted	6,199,661	13-Mar-2001	TOP-OF-RAIL LUBRICATION RATE CONTROL BY THE HYDRAULIC PULSE WIDTH MODULATION METHOD
Granted	737193	22-Nov-2001	TOP-OF-RAIL LUBRICATION RATE CONTROL BY THE HYDRAULIC PULSE WIDTH MODULATION METHOD
Granted	PI9909035-0	15-Aug-2006	TOP-OF-RAIL LUBRICATION RATE CONTROL BY THE HYDRAULIC PULSE WIDTH MODULATION METHOD
Granted	7,216,558	15-May-2007	WHEEL SENSOR ASSEMBLY FOR RAIL BASE MOUNTING
Granted	7,717,004	18-May-2010	WHEEL SENSOR ASSEMBLY FOR RAIL BASE MOUNTING
Granted	7,735,607	15-Jun-2010	GAGE SIDE OR FIELD SIDE TOP-OF-RAIL PLUS GAGE CORNER LUBRICATION SYSTEM
Granted	739836	31-Jan-2002	ON BOARD LUBRICATION SYSTEMS FOR LUBRICATING TOP OF RAIL FOR CARS & RAIL GAGE SIDE/WHEEL FLANGE FOR LOCOMOTIVES
Granted	2,235,640	23-Nov-2004	ON BOARD LUBRICATION SYSTEMS FOR LUBRICATING TOP OF RAIL FOR CARS & RAIL GAGE SIDE/WHEEL FLANGE FOR LOCOMOTIVES
Granted	5,896,947	27-Apr-1999	ON BOARD LUBRICATION SYSTEMS FOR LUBRICATING TOP OF RAIL FOR CARS & RAIL GAGE SIDE/WHEEL FLANGE FOR LOCOMOTIVES
Granted	7,694,833	13-Apr-2010	FRICITION MODIFIER APPLICATOR SYSTEM FOR TRAVELING CRANES
Granted	6,585,085	01-Jul-2003	WAYSIDE WHEEL LUBRICATOR
Granted	2,375,907	13-Apr-2010	WAYSIDE WHEEL LUBRICATOR
Granted	2,527,699	28-Feb-2012	RAILROAD SWITCH LUBRICATOR
*** Additional Patents Pending ***			