

Quebec Rapid Transit Ry. 21, 475	Spring Leaf Roller *204	Telegraph Poles, Concrete 513		
Quebec Transportation Club 323, 479	Standard Turntable Motor *368	Telegraph Statistics 164		
Quinze and Blanche River Ry. 575	Steam Hammer Forgings *205	Telegraph, Telephone and Cable Matters ... 47, 82, 182, 230, 338		
R				
Railway Building in Alberta 28, 181	Steel Car Straightener *516	Temiscouata Ry. Earnings, etc. 24, 75, 229, 276, 333, 379, 431, 524, 578		
Railway Building in British Columbia 209	Straightening Brake Beams *369	Thousand Islands Ry. 477		
Railway Construction for Welland Ship Canal... 464, 575	Tire Clamp *158	Ties Purchased in 1912 371		
Railway Development ... 20, 83, 168, 219, 278, 331, 376, 432, 475, 573	Tool for Turning Rocking Arm Bosses *12	Creosoting Process *201		
Railway Efficiency 466	Tube Expander *414	Preservation Experiments 264		
Railway Engineering Work, Efficiency in 214	Tube Testing Head *403	Zinc Chloride Process *317		
Railway Expenditures by Dominion Government. 24	Turntable Tractor *516	Tillsonburg, Lake Erie and Pacific Ry. 334, 480		
Railway Finance, Meetings, etc. 24, 75, 128, 181, 229, 276, 333, 379, 431, 477, 524, 578	Varnished Door Drying Rack *61	Timiskaming and Northern Ontario Ry.—		
Railway Fire Protection Association 524	Varnish Drying Racks *11	Appointments 229		
Railway Lands Patented 27, 77, 112, 163, 225, 271, 319, 389, 423, 462, 515, 577	Wheel Loading *414	Development ... 21, 84, 170, 220, 332, 377, 433, 575		
Railway Legislation—Alberta 330	Railway Operating Revenue 513	Finance, Meetings, etc. 24, 524		
British Columbia 180	Railway Plans, Deposit of 30	Report 260		
Dominion 180, 256	Railway Rolling Stock Notes ... 26, 70, 120, 170, 224, 276, 333, 387, 423, 485, 530, 579	Rolling Stock 26, 387		
Manitoba 180	Railway Route Maps Approved ... 34, 75, 177, 273, 328, 383, 531	Tobique and Campbellton Ry. 220, 333		
Quebec 70	Railway Spur Plans 32	Toronto, Hamilton and Buffalo Ry.—		
Saskatchewan 131	Railway Statistics 67, 115, 161	Appointments 80, 586		
Railway Location, The Economics of 105, 257	Railway Subsidies in Alberta 529	Development ... 170, 220, 333, 377, 476, 575		
Railway Mechanical Methods and Devices—	Railway Subsidy Agreements ... 70, 131, 330, 380, 468, 485, 526, 579	Finance, Meetings, etc. 128, 131, 333		
Air Drill *256	Railway Track Laid in 1912 27, 71	Rolling Stock 26, 70, 224, 485		
Air Hoist and Screw Drill *159	Railway Track Stresses 212	Toronto Terminal Ry. 26		
Air Hose Machine *464	Railway Traffic Department and Immigration and Colonization 262	Toronto Viaduct Proposals ... 84, 336, *416, *555		
Air Motor Grinder *559	Railway Transportation Problems of the Future 413, 473, 534	Transportation Situation at Head of Great Lakes. *151		
Air Operated Bulldozer *255	Rauth, C. W.—Rapid Method for Volume Calculation in Railway Cuts and Fills 213	Trade and Supply Notes 49, 150, 280		
Air Operated Punch *414	Reid Newfoundland Co.—	Tye, W. F.—The Economics of Railway Location 105		
Air Press *112	Appointments 80, 120, 131, 169	U		
Angle Cock Grinding Machine *517	Development 21, 332	Ungava Ry. 575		
Blue Flag Stand *559	Resuscitation from Apparent Death from Electric Shock 470	Union Pacific Ry. 131		
Bolt Puller *215	Roadmasters and Maintenance of Way Association 479	Union Stockyards at St. Boniface, Man. ... *418, 431, 563, *568, 586		
Bulldozer Forming Die *369	Roberval-Saguenay Ry. 84, 575	V		
Car Wheel Boring Lift *255	Rutland Rd. 24, 276	Van Buren Bridge Co. 220, 333		
Coupler Stripping Press *204, *255	S			
Crane, Departmental *414	St. John and Quebec Ry. ... 84, 170, 332, 433, 476, 575	Vancouver, Victoria and Eastern Ry. and Navigation Co.—Development ... 30, 75, 177, 224, 423		
Cutting Bolt Stock *11	St. Marys and Western Ontario Ry. 24, 75	Finance, Meetings, etc. 379		
Drilling Retaining Rings *61, *368	Salisbury and Albert Ry. 377	Vancouver, Westminster and Yukon Ry. 21		
Forging Machine Work *158	Saskatoon Transfer Ry. 84, 220	Vaughan, H. H.—Rotary Snow Ploughs, Their History, etc. *101		
Grinding Air Brake Valve Sets *62	Shorter Route Proposals Between Great Britain and Canada 28	Steel Passenger Car Construction 254		
Grinding in Dry Steam Pipe Ends *114	Shuswap and Okanagan Ry. 24, 223	Victoria and Sidney Ry.—Development ... 75, 224		
Grinling in Machine *368	Signal Specifications for Railway Crossings ... 34	Finance, Meetings, etc. 75, 128, 229, 379, 524		
Handling Boiler Plate 369	Simcoe, Grey and Bruce Ry. 170	Gas Electric Car *563		
Heater for Bending Piston Rods *205	Snow Fences, Reinforced Concrete 560	Rolling Stock 385, 423, 530		
Hose Wire Tightener *372	Snow Ploughs, Rotary, Their History, etc. *101	Victoria Harbor Ry. 21		
Hot Water Mixer *11	Southern Central Pacific Ry. 21, 220	Victoria Terminal Ry. and Ferry Co. 524		
Improved Link Motion Arrangement *61	Southern New England Ry. ... 181, 227, 276, 379, 385, 480, 537, 582	W		
Improved Padlock *464	Stanstead, Shefford and Chambly Ry. 24	Wabash Rd. 131, 177		
Lacquer Bake Oven *517	Subury, Kewawa and Bell River Ry. 575	Western Canada Ry. 170, 280		
Lathe Tool Support *414	Swartz, H. C.—Bolt Puller *215	Western Dominion Ry. 70, 84, 333, 476		
Locomotive Tractor *516	Wire Puller *215	Western Union Telegraph Co. 338		
Mounting Wheels in Lathe *559	T			
Mounting Car Wheels *560	Taber Transit Co. 170, 332, 433	Wetaskiwin, Yellowhead and Pacific Ry. 170		
Oil Screw Jack *415	Taxation of Railways in New Brunswick 224	Wheels, Car, Chilled Iron 459		
Pipe Bending Stand 114	Taxation of Railways in Ontario 203	White Pass and Yukon Ry.—Development ... 333		
Piston Ring Cutting *255	ELECTRIC RAILWAY DEPARTMENT.			
Piston Ring Turning *560	Finance 188, 342	Notes 495		
Planing Locomotive Shoes and Wedges *12	Notes 442	Report 231		
Plating Headlight Mirrors *158	Rolling Stock 88, 92, 143, 346	Rolling Stock Notes ... 92, 188, 239, 288, 346, 396, 442, 495		
Portable Milling Tool Grinder *12	Canadian Electrical Association 396	Edmonton, Stoney Plain and Wabamun Ry. ... 185, 344, 395, 442		
Portable Punch and Shears *256	Canadian Electric Railway Association 343	Elbow River Suburban Ry. 185		
Sawing Truck Bolster Truss Rod Grooves ... *415	Canadian Pacific Ry. Rossland Subdivision Electrification 392	Estevan Transit and Power Co. 593		
Setting Guides and Crossheads *62	Canadian Resources Development Co. 286	F		
A				
Alberta Metropolitan Ry. 185, 592	Cape Breton Electric Co.—	Finance, Meetings, etc. ... 41, 89, 142, 188, 238, 287, 342, 394, 441, 495, 543, 591	Rolling Stock 346, 495	
American Electric Railway Association 288, 545	Development 90, 235, 286, 344, 393, 592	Cars, Double Decked, in Pittsburgh, Pa. 491	Economy of Storage Battery 491	
Aroostook Valley Ry. 235	Finance, Meetings, etc. ... 89, 142, 238, 287, 342, 394, 441, 495, 543, 591	Chatham, Wallaceburg and Lake Erie Ry. *493	Chestermere and Calgary Suburban Ry. ... 141, 235	
B				
Bell Island Transportation Co. 344	Rolling Stock 346, 495	Commutator Slotting Device *37	Conception Bay Electric Co. 344	
Berlin and Northern Ry. 235, 592	Notes 491	Co-operative Insurance for Employees 594	G	
Berlin and Waterloo St. Ry.—Development ... 344	Report 496	Grade Crossings, Abolition of, in British Columbia 37	Grand Valley Ry.—Development 39, 90	
Notes 496	Rolling Stock 142	Finance, Meetings, etc. ... 142, 342, 441, 495, 543	Litigation 353, 593	
Report 142	Berlin, Waterloo, Wellesley and Lake Huron Ry. 344	Notes 346	Grouse Mountain Scenic Incline Ry. 344	
Rolling Stock 143	Brandon Municipal Ry.—	Guelfh Radial Ry.—Development ... 141, 286	Rolling Stock 288, 496	
Development 90, 286, 344, 395, 592	Development 90, 286, 344, 395, 592	H		
Finance 394, 495	Notes 36, 545	Halifax, N.S., Traffic Regulations 542	Halifax Electric Tramway—Development ... 90, 185	
Rolling Stock 92, 143, 288, 396	Report 90	Finance, Meetings, etc. ... 142, 188, 495, 543, 591	Legislation 237, 287	
Notes 39	Brantford and Hamilton Ry. 39	Notes 346	Report 140	
Development 39, 90, 141, 185, 234, 235, 284, 286, 344, 395, 442, 494, 544, 592	British Columbia Electric Ry.—	Rolling Stock 239, 346, 396	Hamilton, Grimsby and Beamsville Electric Ry. ... 545	
Double Deck Car Barn 542	Development 39, 90, 141, 185, 235, 236, 288, 344, 395, 441, 495, 543, 591	Hamilton Mountain Electric Ry. 185, 286	Hamilton St. Ry.—Development ... 185, 286, 494	
Electric Freight Locomotives 390	Notes 237, 288, 346, 442, 496	Finance, Meetings, etc. 142, 188	Notes 40	
Employees' Club Buildings, etc. 40, 186, 233	Receiving and Substations 187	I		
Fares 496	Report 38	Eastern Ontario Electric Ry. 141	Edmonton Interurban Ry. 39, 441, 544, 592	
Finance, Meetings, etc. ... 41, 89, 142, 188, 238, 287, 342, 394, 441, 495, 543, 591	Rolling Stock 37, 86, 238, 346, 545	Edmonton Radial Ry.—	Development 39, 141, 185, 235, 236	
In Burnaby Municipality 237	Social Features 343	Double Track Work 288	J	
Notes 92, 288, 346, 442, 496	Victoria-Saanich Line 233	K		
Buffalo and Fort Erie Ferry Ry. 141, 185, 286	Buffalo, Lockport and Rochester Ry. 442, 494	L		
Buffalo, Lockport and Rochester Ry. 442, 494	Burrard Westminster Boundary Ry. and Navigation Co. 39, 141, 185, 286, 344, 442	M		
Calgary Municipal Ry.—	Development			
Development 39, 90, 235, 442, 494, 592	Q			