

# TABLE OF CONTENTS

**BUGGY TOPS**--Light Top Buggy--Measuring Bows--Gipsy Top--Mock Top--Lining--Tully's Stay--Setting--Side Quarters--Cutting--Three-Bow--Two-Bow--Concealed Bows--Four Bow--Top Rails--Slat-Irons--Length of Joints--Position of Knuckles--Gum Top--Back Stays--Rubber Top--Seaming--Duplicate Tops--Invisible Bands--Curtains--Ordering Tops--Various Kinds--Buggy Top Manufacturers 1-76

**SHIFTING RAILS**--Patented--Stanhope Phaeton--Tools for Making--Making--Designs--77-94

**DROP FRONT PHAETON TOPS**--Trimming for Buggy--Cutting--Two-Passenger Phaeton--Loop Phaeton--Ladies' Phaeton--Four Bow--Stanhope Phaeton--Three Bow--95-107

**EXTENSION TOPS**--Barouche--Changeable--Setting--Cutting the Head Lining--Cutting the Leather--Back Stays--Cabriolet Phaeton--Four Passenger--Surrey--Six Passenger--Concealed Bows--Summer Tops--Three-Seated Surrey 108-147

**CLOSE TOPS**--Victoria--Cabriolet--Folding Lights--Hermaphrodite--Head Lining--Four Bow--Three-Bow French Top--Phaeton--Five Bow--Barouche--Mail Phaeton--Physician's Phaeton--Side Lights--Slat Irons--Goddard Top--Back Stay--Contraction of Setting Bows--Prevalent Designs--Yandell or Scoop-Top--Spider Phaeton--Portland Cutter--Cod Pieces 148-209

**LANDAUS**--New Mode of Landau Top--Five-Glass Landau, System Lohner--Five-Glass Landau, French System--Killam's Automatic Spring--James Cunningham & Son--Automatic Landau Tops--Flappers--Hinges--Storm Cover--Glass Frames--Leather Landau--Back Light--Cutting 210-248

**LANDAULET TOPS**--Falling Front--Octagon-Front--Kolber--Brewster & Co.--Brice Thomas--Hinges 249-276

**HEAD LININGS**--Sponging--Embossed-Leather--How to Cut--Nap 277-278

**SMOOTH TOPS**--Leather from Sinking in Between Bows--Drawing Leather on Tops--Sagging of Leather Tops 279-284

**CURTAINS**--Side Curtains--Curtain Fastenings--Portable Back Curtains--Half Side Curtain--Straps--Lining--Fitting--Lane Curtain 285-290

**KNOBS AND PATCHES**--Sewing Machine Attachment--Knob Patch Tool--Knob Patches 291-293

**ROLL UP STRAPS**--New Patterns--Inside of Back-Bow 294-299

**BOX LOOPS**--Case Loops--Preparing Back Stays--Designs for Case-Loops 300-303

**CURTAIN FASTENERS**--Buckle Loop--Various Manufacturers 304-310

**CURTAIN LIGHTS**--Various Manufacturers--Mica 311-313

**VALANCES AND CONES**--Cloth Valances--Front Valances--How to Make--Replacing--How to Finish Edge--Cone for Phaeton 314-320

**SETTING BOWS**--Bow Setters--Bow Setter Manufacturers--Length of Bows--Fitting Tops--Prevent Front and Back Bows from Springing--Setting Bows on Shifting-Top--Contraction of Bows--Victoria and Cabriolet Tops 321-345

**BOWS, SOCKETS AND SLAT IRONS**--Steel Tubular Bow--Iron Bows--Covering Bows--Bow Manufacturers--Bow Straps--Slat or Bow Irons 346-357

**MEASURING TOP JOINTS**--Drafting Top Joints--Various Top Joints--Top Joint Manufacturers--Trimming Over Joints--Place Joint Knuckles--Concealed Jointed Top--How to Locate Top Joints--Victoria Top--Positions of Props and Slat Irons--French Rule for Joints 357-377

**TOP PROPS AND NUTS**--Manufacturers--Prop-Block--Leather-Covered Prop-Nuts--Double Elbow-Props--How to Make Corner Prop-Irons 378-384

**CUTTING TOPS**--Leather Tops--Enameled Leather Tops--Measuring Leather 385-393

**MATERIALS FOR TOPS**--Enameled Cloth--Leatherette--Enameled Leather--Manufacturers--Rubber Tops--Tannette--Vulcanized Carriage Cloth 394-398

**CARE OF TOPS**--Neat's-Foot Oil vs. Top Dressing--Manufacturers--Softening Buggy Tops--Care of Leather Tops--How to Clean and Polish Top Leather--Dressing Leather-Tops--Taking Care of Carriage Tops 399-405

**DUSTER OR HOOD FOR TOPS**--Buggy Top 405-406

**PATENTS**--Buggy Shifting Rail--Curtain--Curtain Attachment--Curtain Button Hole---Curtain Fastener--Curtain Knob--Curtain Knob Making--Curtain Storm--Curtain Window--Top--Top Cart--Top Extension--Top Folding--Top Front--Top Hood--Top Iron--Top Joint--Top Lock--Top Operating Device--Top Prop--Top Prop Block--Top Raising & Lowering--Top Rest--Top Shifting Rail--Top Setter--Top Slat Iron--Top Spring--Top Support--Top Valance--Top Wagon 407-432

**GLOSSARY** 433-437

## **INDEX**

Adams, A. H. 83

American Prop-Joint Company 357

Ames Buggy Bow Co. 353

Anderson Cart & Carriage Co. 76

Anderson Forging Co. 94

Andrews & Casterline 394

Apron 162, 170

Ashtabula Carriage Bow Co. 349

Atkins & Townsend 76

Automatic tops 225-227, 244

Back Stays 168, 195, 301

Bailey Landau Top 225

Baird, D. W. 362

Barnett & Berry 377

Barouche Top 108, 154

Bauer Bro's Mfg. Co. 76

Behlen Specialty Co. 74

Billet-Straps 288

Blakeslee, J. & Son 78

Bow Covering 352-353

Bow Setter & Setting 321-344

Bow Straps 350-351, 382

Bows Steel Tubular 345

Bows, Measuring 1, 321-344

Box Loops see Case Loops

Brewster & Co. 79, 255, 259, 328, 346

Brewster, James 78, 251

Bronson, H. G. 114

Brown, S. N. & Co. 354

Brown, Thomas H. 376

Brown, William 306

Buchholz & Morris 73

Buffalo Top Co., 74

Buggy Tops 1-76

BuoB & ScHeu 76

Busser & Miller 357

Cabriolet 174-177, 181, 184, 191, 192-193, 198, 204

Cabriolet Phaeton 122, 125-126, 136, 142, 144

Cabriolet Two-Wheeler 165, 209

Calash Top 183

Canniff, Geo. F. & Co. 365

Care of Tops 398-404

Carroll, J. G. 94

Case Loops 28, 300-303

Champion Curtain Fastener 308

City Carriage Works 73

Clapp, E. D. Manufacturing Co. 89, 371

Cleveland Carriage Bow Co. 349

Close Top 148-204

Close Top Buggy 158

Cluclus, William 223

Cod Pieces 205-207

Cook, C. G. 115

Conboy, D. 353

Concealed Bows 32, 133-134, 347, 368

Cones 43, 111, 314-320

Corliss, M. A. 292

Cortland Box-Loop Co 304

Cortland Top & Rail Co. 91

Coss Co. 355

Couplet Top 250

Cowles, C., & Co. 345

Craft, White & Co. 346

Crandall three bow 145

Crandal, Stone & Co. 307, 310, 312, 354

Croft & Pitner 362

Cunningham, James & Son 219

Curtain Fasteners 304-310

Curtains 61, 68, 70, 285-289

Curtain Landau 241

Cutting 113, 121, 138, 183, 248, 281, 290, 385-392

Dalzell, D. 108

Dillon Nut Lock Co. 378

Dodge, W. D. & Co. 400

Dressing Leather Tops 401

Driscoll, E. M. 290

Drop Front Phaeton 95-107

Dubois, Peter 81

Duplicate Buggy Tops 51

Dupont, Albert 150

Duster 48, 405-406

Ehrngard H. & L. Delbecque 239

Eldridge, M. F. 74, 371

Enameled Cloth 393

Enameled Leather 393, 397

English & Mersick 230, 347, 379

Evans Artifical Leather Co. 395

Excelsoior Seat Co. 89

Extension Top 108-147

Five Bow verses Four Bow 152-153

Five Bow 195

Five Glass Landau 212-216, 221, 241, 246-247

Flappers for Windows 223, 229

Fockler & Bro., C. 70

Folding Lights 148, 160

Foulke, Ed. H. 330

Four Passenger Phaeton 129-131

Fox, J. B. 351

Fremont Metal Stamping Co 307

French System Landau 233-236

French Top with Single Joint 150

French, G. N. & son 364

Gedney, Caleb 80

Gipsy Top 2

Glass Frames 232

Goddard Top 168, 185

Godwin, Joseph 80

Goold, Jas. & Co. 348

Griffith, M. A. 83

Gum Top 24-25, 396

Gypsy Cabriolet Quarter 104

Halsey, S. & Son 394

Harris Button-Hole Co. 291

Hayden & Smith 88

Hegner & Co., C. W. 9

Hennessy, D. L. 151

Hermaphrodite 148

Hibbard, Harmon 77-78

Higgin Mfg. Co. 310

Hinck's Balancing Spring 222

Holmes, W. W. 14, 304

Hoosick Malleable Iron Works 83

Hoover & Johnston, 322

Horn, H. E. 308

Horse 63

Hotchkiss, Guy C., Field & Co. 82

Howell, T. P. & Co. 277

Huff, A. & A. J. Mitchell 361

Hurtig, John F. 232

Invisible Bands 58, 60

Johns, L. B. 66

Johnson, William 114

Joints 22, 48, 197, 357-375

Keiper, J. E. 12

Kemper Brothers 304

Kehrl, Albert 333

Killam's Automatic Spring 218

Kimball, C. P. & Co. 227

Kimball Mfg. Co. 216, 249

Knobs & Patches 290-294, 325

Kolber Landaulet 255

Kroh & Bro., C. Z. 70

Kurz, Carl 79

Ladies' Phaeton 200

Landau 210-248

Landaulet 249-276

Landaulets, Octagon Front 228, 249, 250, 257, 260, 264-274

Lane Brothers 289

Larkin, G. G. 67

Larrimore Buggy Top Co. 76

Lawrence Carriage Top Co.

Leather 385-392

Leatherette 393

Lifter, Top 3

Lights 48, 161, 168-170, 185, 240, 311-313

Lining 4, 9, 12, 38, 62, 112, 139, 194, 208, 245, 277-278

Lippincott, J. R. & Co. 400

Lohner System 212-217

Loomis, Avery & Co. 348

Lyndon Carriage Co. 367

Mail Phaeton 155

Mallory's Patent 83

Mansuy Carriage Co. 114

Martin Carriage Works 76

Materials 393-397

McKinnon Dash & Hardware Co. 288

Metal Stamping Co. 290-291, 305-306, 311

Meyer, C. G. 74

Mica 313

Miller, Charles 14

Miller, Frank 402

Miller, Geo. C. & Sons 233

Million, Guiet & Co. 237-239

Miner & Stevens 80

Mitchell, A. J. 361

Mock Top 3

Monarch 7 Curtain Fastener Co. 309

Moore, J. P. 363

Morrison Mfg. Co. 400

Mosier, J. H. L. 79

Neider, F. A., Co. 308

Ogden's Landalet 249

Ordering 67

Palmer, Geo. E. & Bro. 394

Palmitate 402

Parallel System 242-244

Parker Carriage Goods Co. 381

Parker, Jno. C. 78

Parsons, L. W. 291

Patents 407-432

Peters, J. F. J. W. 302

Physician's Buggy 187

Physician's Phaeton 159, 161, 163-166, 177-179, 181, 183, 198, 202-204

Pockets 207

Portland Cutter 190

Prop Blocks 376-377

Prop Nuts 375-384, 383

Prop Nut Covering 375, 378

Prop Washer 382

Queen City Forging Co. 90

Queen City Top Mfg. 75

Road Wagon Close Top 199

Robinson, H. H. & Co. 372

Rock & Co. 222

Roll Up Strap 111, 287, 294-299

Rubber Top 46-48, 55-58, 387, 396

Sagging Joints 229

Scoop Top 179

Seaming Tops 48, 282

Searls, Anson 380

Setting Tops 109, 143, 154, 171, 321-344

Sherwood Mfg Co. 351

Shifting-rail 77-94

Shreve, Charles T. 70

Side Quarters 18, 28, 39, 43

Six-Passenger Phaeton 126

Slat Irons 22, 167, 191-192

Smith, Henry 381

Smith & Stepler 400

Smooth Top 279-284

Snodgrass, J. H. 306

Spider Phaeton 186, 189

Standard Carriage Goods Co. 312, 319

Stanhope Phaeton 102

Star Manufacturing Co. 308

Stedman's Patent 96

Steel Box 17

Stengel & White 399

Sterling Buggy Co. 354

Stevens & Elliot 220

Stillman Top Adjuster Co. 375

Storm Cover Landau see also Duster 232

Studebaker & Raymond 381

Sullivan & Eagle 73

Summer Top 93, 141

Surrey 125, 132, 141

Tannette 397

Taylor, H. D. 310

Thomas, Brice 256,

Thomas & Norcross 321

Thompson, Zenas, Jr. 328

Three vs. Four Bow tops 204

Tod, W. P. 356

Top Nuts see Prop Nuts

Top Rails 22

Topliff, I. N. 350, 356

Topliff & Ely 346, 355, 356

Tousley, M. G. 1

Tully's Stay 4

Tuttle, A. E. 115, 145, 182, 369

Two Bow Top 16, 19

Uncapher, H. P. 346

Universal Leather Lacquer Co. 402

Valance 62 , 314-320

Vandercook, Wesley 96

Vanhorn, John B. 346

Victoria 157, 189, 191, 194, 195-196, 199, 201, 339, 370

Vulcanized Carriage Cloth 397

Warden Mfg. Co. 352

Webbing 66

Webster, E. W., 78

White Manufacturing Co. 218

Weimar, Peter 229

Werle, Albert W. 232

West. L. M. 398

Wood Bros. 151, 214

Wyeth Bros. 91

Yandell top 179

Zephyr cloth 277