

Screw-nail, The Russel and Erwin Muffg Co..... 27,537
 Seeding machine, W. D. Arnett..... 27,554
 Sewing machine, C. F. Harlow et al..... 27,678
 " " thread cutter and holder for, L. A. Pratt..... 27,668
 Shaft attachment for vehicles, R. W. Hare et al..... 27,591
 " bearing, vertical, I. P. Lambing..... 27,572
 Sheaf carrier, W. A. Brown et al..... 27,550
 Shoes, machine for attaching heel plate to, F. H. Richards..... 27,618
 Signal lantern for railway trains or vessels, F. Watson Sleeper, see Carriage..... 27,561
 Sleigh knee, metal, P. Adams..... 27,653
 Sleighs, running gear for, R. E. Lee..... 27,541
 Speculum, W. S. Watson et al..... 27,566
 Spool, L. O. Smith..... 27,674
 Spool for holding silk and twist, etc., L. O. Smith..... 27,664
 Spinning and twisting yarns and threads, method of and means for, M. A. Detina et al..... 27,547
 Spring, carriage, S. W. Patton et al..... 27,544
 Sprinkler for lawns, etc., B. F. Egleson..... 27,651
 Steam ship, A. H. Lucas..... 27,595
 Store service, W. R. Cole..... 27,562
 " " apparatus, E. P. Osgood..... 27,642
 Stretcher for invalids, H. H. Judson..... 27,604
 Striker attachment for paper ruling machines, B. Owen..... 27,589
 Stumps, apparatus and method of extracting, J. Barton..... 27,552
 Tags, machine for making shipping, The Canada Paper Co..... 27,534
 Target, revolving, W. H. Adams..... 27,581
 Telegraphy, etc., and apparatus for carrying out same, art of preventing induction in, W. A. Leggo..... 27,571
 Telephony, see Telegraphy.....
 Toboggan, coasting, C. H. Emerson..... 27,666
 Tool and plane, W. S. Robertson..... 27,590
 Toy, alphabetical, W. F. Hopkins et al..... 27,672
 Traps, apparatus for manufacturing plumbers', J. Robertson..... 27,627
 Tub, see Wash.....
 Tubes and pipes, apparatus for bending, J. H. Kelly... 27,623
 Turning irregular forms, machine for, H. E. Taylor et al..... 27,658
 Twisting, see Spinning.....
 Valve, S. P. Blackburn..... 27,610
 " divided and double seated, P. Barclay..... 27,610
 Vehicle, jump seat, T. G. Mandt..... 27,596
 Veneer, see Wood.....
 Watch, see Clock.....
 Watch protector, T. W. Crawford..... 27,622
 Water level indicator for steam boilers, electric, C. H. Wickersham..... 27,548
 Wash tubs, adjustable leg or support for, E. B. Foote... 27,584
 Welding, see Rolling.....
 Windows, spring locking mechanism for locking and raising, G. M. Willment..... 27,615
 Wood to the covering of surfaces, treatment and application of, D. P. P. de la Sala..... 27,675
 Wrench, pipe, E. R. Porter et al..... 27,657

INDEX OF PATENTEES.

Abernethy, W., et al, farm Gate..... 27,535
 Adams, P., metal sleigh knee..... 27,653
 " W. H., revolving target..... 27,581
 Aikman, J., machine for sowing fertilizers..... 27,643
 Anderson, J. J., machinery for manufacturing coupling links for cars..... 27,585
 Anderson, J. J., rolling Machine..... 27,588
 " " rolling machinery for welding metal coils into homogeneous annular bodies, etc..... 27,587
 Angell, E. E., et al, sewing machine..... 27,678
 Arnett, W. D., seeding machine..... 27,555
 Asselstine, C. N., anvil..... 27,661
 Baker, J. S., et al., blind and shutter hinge..... 27,624
 " " sash lifter..... 27,625
 Barclay, P., divided and double seated valve..... 27,660
 Barton, J., apparatus and method of extracting stumps
 Bathrick, L. E., means for dissipating electricity in printing and other machines..... 27,592
 Batten, J., fire-escape..... 27,665
 Becket, A. N. basket bottom..... 27,669
 Beeman, G. M., et al, milk cooler..... 27,564
 Bingham, J. E., horse shoe..... 27,637
 Bixby, S. M., metal bottle for blacking and other purposes..... 27,568

Blackburn, S. P., valve..... 27,610
 Bonna, A., water or fluid meter..... 27,600
 Broad, C. H., apparatus for bending tubes and pipes... 27,623
 Brown, F. B., under garment..... 27,542
 " W. A., et al., sheaf carrier..... 27,550
 Brundage, F. A., fruit pail for gathering fruits..... 27,601
 Byam, E. C., et al, blind and shutter hinge..... 27,624
 " " sash lifter..... 27,625
 Canada Paper Co., machine for making shipping tags
 Capron, B., et al., sheaf carrier..... 27,550
 Chesebrough, R. A., hot air furnace..... 27,570
 Clarke, G. A., et al., manufacture of chocolate icings.. 27,671
 " W., device for hitching animals..... 27,608
 Clinkman, F., harrow..... 27,629
 Close, W. R., et al, regulating device for transmitting power..... 27,598
 Colburn, L. S., friction brake shoe for railway cars, etc
 Cole, W., store service..... 27,562
 Crawford, T. W., watch protector..... 27,622
 Cremins, J. B., et al., pipe wrench..... 27,657
 Crocker, H. C., apparatus for collecting and storing oil and gas from wells..... 27,577
 Crocker, H. C., art or process of removing paraffine from oil wells..... 27,578
 Curry, T. E., mowing machine..... 27,556
 Davis & Sons, S., cigar..... 27,580
 Davy, J. W., stretching and attaching wire to iron fence post and securing them firmly to the ground
 DeForest, H. S., machine for driving nails..... 27,559
 " T. B. & H. S., box nailing machine..... 27,560
 Denney, H., machine for making shipping tags..... 27,534
 Doney, C., leather and rubber boot or shoe heel plate.. 27,626
 Dretina, M. A., et al., method of and means for spinning and twisting yarns and threads..... 27,547
 Dutton, J. B., grain meter..... 27,646
 Dyer, P., et al, farm gate..... 27,585
 Eddington, F. G., adjustable leg or support for wash tubs..... 27,584
 Egleson, B. F., sprinkler for lawns, etc..... 27,651
 Emerson, C. H., coasting toboggan..... 27,666
 Firm of Macfarlane, Strang & Co., water or fluid meter
 Ferris, G. M., et al, life boat..... 27,599
 Fessender, C. F., et al, thill coupling..... 27,602
 Foote, E. B., adjustable leg or support for wash tubs... 27,584
 Guerin, E. B., et al, carriage spring..... 27,544
 Guiley, A. H. R., hat hook..... 27,582
 Gurnee, P. J., car heater..... 27,640
 Gurney, E., et al., furnace..... 27,632
 Haag, J. C., machine for making picket fence..... 27,539
 Hare, R. W., et al., shaft attachment for vehicles..... 27,591
 Harlow, C. F., et al, sewing machine..... 27,678
 Hess, J. D., sash balance and fastener..... 27,593
 Hirsch, C., et al., horse shoe..... 27,636
 Hollenback, F. A., knob attachment..... 27,634
 Hopkins, W. F., et al, alphabetical toy..... 27,672
 Humphrey, J., et al., speculum..... 27,566
 Jonas, H., et al., horse shoe..... 27,636
 Jones, H. K., screw-nail..... 27,537
 Johnson, W. C., sulky plough..... 27,650
 Joyce, J. L., boot and shoe heel fastener..... 27,648
 Judson, H. H., mattress for water beds..... 27,611
 " " stretcher for invalids..... 27,604
 Just, J., et al., method of and means for spinning and twisting yarns and threads..... 27,547
 Kelly, G. A., steam boiler feeder..... 27,613
 " J. H., apparatus for bending tubes and pipes... 27,623
 King, G. R., compound to restrain the setting of plaster..... 27,594
 Knaus, J. H., drawer equalizer..... 27,545
 Krepps, W. L., et al, key fastener..... 27,633
 Lambing, I. P., vertical shaft bearing..... 27,572
 Langdon, A., et al., apparatus for making gas..... 27,551
 Lord, S. B., rowing attachment for boats..... 27,609
 Lee, R. E., running gear for sleighs... 27,541
 Léger, A. M. & Z. M., clock and watch..... 27,677
 Leggo, W. A., art of preventing induction in telegraphy, etc., and apparatus for carrying out same..... 27,571
 Leith, H. I., bottle or other analogous receptacle for liquids..... 27,617
 Lewis, C. R., et al., apparatus for making gas..... 27,551
 Lubin, D., clod crusher and pulverizer..... 27,597
 Lucas, A. H., steam ship..... 27,595
 McAllister, G. W., et al., regulating device for transmitting power..... 27,598
 McLaughlin, R., thill coupling..... 27,638
 McLeod, A., et al., milk cooler..... 27,564
 MacMillan, J. R., buckle..... 27,645
 McNee, C. A., mower and Reaper..... 27,676