

	Kitchen box, W. Q. Wakefield.....	469,730
	Kitchen cabinet, W. Thompson.....	469,842
	Knitting machine, 2-or ribbed work, circular, J. F. Gordon.....	469,694
	Knob attachment, W. E. Sparks.....	469,963
	Knob fastening, door, J. H. Ormsby.....	470,072
	Ladder, cap, C. R. D. Sincum.....	469,751
	Lamp, miner's, B. H. Harris & Co.....	469,918
	Lamps, electric light attachment for, H. C. Putnam.....	470,008
	Lasting tool, K. Guhring.....	469,854
	Latch, J. Marks.....	469,953
	Lathe, lathe gauge, & Svensson.....	469,833
	Lathe gauge for screw cutting, S. Jewell.....	469,880
	Leather gauge, F. Clark.....	469,680
	Leveler, road, A. Zoldoske.....	469,956
	Lifting jack, J. H. Cory.....	469,832
	Light, See Dead light.....	
	Lightning arrester, Scott & Wurts.....	470,013
	Liquid meter, automatic, W. E. Roemer.....	469,788
	Lithographic plates, manufacturing, O. Kindermann.....	469,704
	Lock, See Cylinder lock. Nut lock. Permutation lock. Switch lock.....	
	Lock, J. E. Shaw.....	469,950
	Locomotive, electric, T. L. Willson.....	469,951
	Locomotive, electric, A. R. Caver.....	469,844
	Locomotives, propelling gear for tramway, C. D. Scott.....	470,078
	Looms, picker check for, R. W. Andrews.....	469,871
	Lubricator, See Axle lubricator. Force feed lubricator.....	
	Lubricator, E. McCoy.....	470,103
	Lubricator, Taylor & Edwards.....	470,085
	Lung testing machine, coin-controlled, L. Donne.....	469,936
	Machinery, starting and stopping mechanism for, J. Patten.....	469,718
	Magnet, electro, A. D. Ayres.....	469,672
	Mail bag catcher, Winsor & Cummings.....	470,082
	Mail pouch loop, Taylor & Purcy.....	469,727
	Malting apparatus, A. Deininger.....	469,851
	Match board, J. Wright.....	469,973
	Measure, liquid, J. I. Howe.....	469,834
	Measuring tape, C. M. Chesbrough.....	470,062
	Metall planers, work holder for, W. Honscheid.....	469,811
	Metallic vessel seam, E. G. West.....	469,761
	Meter, See Electric meter. Liquid meter. Water meter.....	
	Milk receptacle, J. M. O'Neill.....	469,711
	Moulding machines, work bolder for variety, E. B. Smith.....	469,888
	Motor, L. C. Atwood.....	469,916
	Mower attachment, lawn, J. L. Bieder.....	469,916
	Muff, C. Booss.....	470,100
	Muff bed, E. Goldman.....	470,044
	Music leaf turner, H. S. Brewington.....	470,044
	Musical instruments, coin-controlled device for, D. Genovese.....	469,831
	Nail driving machine, R. Ashe.....	470,041
	Nail machine, C. R. Houghton.....	470,137
	Nail machine feed mechanism, M. Altmeyer.....	470,148
	Nozzle employed in the manufacture of felted fabrics, C. A. Whipple.....	469,762
	Nut, J. H. Burdick.....	469,673
	Nut lock, H. L. Stone.....	469,922
	Nut lock, J. W. Wilcoxon.....	470,068
	Organ, octave coprocessor for folding keyboards for, F. W. Hedgeland.....	469,699
	Packing case, G. B. Hussey.....	469,942
	Pan, See Dust pan. Evaporating pan.....	
	Pantograph, L. Cote.....	469,775
	Paper feeding machine, T. A. Briggs.....	469,802
	Paper of other fabrics, apparatus for coating, G. J. Feldon.....	470,115
	Paper roll fixture, O. H. Hicks.....	469,855
	Pasting machines, automatic fountain for, C. E. Newell.....	470,164
	Pastry fork, A. M. Mangin.....	470,005
	Pen holder, A. E. Sperry.....	469,882
	Penholder, T. O. Earle.....	469,884
	Penell, L. H. Sondheim.....	469,756
	Penell, lead, L. H. Sondheim.....	470,081
	Permutation lock, C. A. Dorn.....	470,110
	Photographic roller holder, G. Jones.....	470,154
	Piano, A. Walch.....	469,882
	Pie box, A. A. Whiting.....	469,867
	Pill machine, J. R. Witzel.....	470,128
	Pipe, See Blowpipe.....	
	Pipe flanks, core seat for, R. Morgan.....	469,747
	Pipe wrench, F. L. George.....	470,045
	Pine clasp, A. E. Sperry.....	469,882
	Planting cutter, Kusmaul & Reichert.....	469,854
	Planter, corn, L. Scofield.....	469,183
	Plaster, seed, J. A. Stone.....	469,755
	Plow, W. Strat.....	469,749
	Plow, break, F. W. Gillespie.....	469,835
	Plow, water, W. Sweet.....	469,835
	Pole tubular, metric, Edward.....	470,158
	Police nippers, S. A. French.....	469,112
	Pool game register, Hathaway & Golden.....	470,048
	Pot, See Dash pot.....	
	Potato digger, W. Morrow.....	469,978
	Press, See Rolling press. Copy press.....	
	Pressure mercury column for ascertaining, A. B. Balkins.....	469,900
	Printer's slug, Gunderson & Wilson.....	470,154
	Printing machine, T. A. Briggs.....	469,801
	Printing machine, chromatic, H. F. Wyatt.....	469,767
	Printing machine, cylinder, M. Vierengl (r).....	11,227
	Printing plates, producing photo-mechanical, L. Schaefer.....	470,012
	Propeller, W. A. Baldwin.....	470,097
	Propelling mechanism, boat, W. H. Dick.....	470,108
	Rack, G. W. Long.....	470,068
	Ranch, J. W. Long.....	469,788
	Ramp, See Display rack. Hay rack.....	
	Rail fastening device, W. S. Phelps.....	469,947
	Railway conduit system, electric, Waller & Manville.....	469,822
	Railway contact device, electric, J. C. Love.....	469,861
	Railway crossing, waste, E. S. Senneker.....	469,861
	Railway rails, locking device for, J. Elgy.....	469,922
	Railway signal, electric, W. Holloway, Jr.....	470,128
	Railway station, J. G. Emery, Jr.....	469,888
	Railway switch signal, E. D. Bangs.....	469,927
	Railway tie, T. C. Anderson.....	470,094
	Railways, power transmitting, W. H. Morrell.....	469,801
	Railways, power transmission device for electric, E. H. Johnson.....	469,944
	Razor shod, O. W. Castner.....	469,888

Snowplow, W. Y. Fisher.....	469,937
Snow plow and scraper, automatic, B. F. Denton.....	469,938
Soldering tool electric, J. J. Ritter.....	469,949
Sole trimming machine, J. H. Reed.....	469,950
Spectacles, D. T. Methven.....	470,006
Spout and bucket cover, sap, H. R. Mills.....	469,791
Spring. See Watch balance spring.	
Spring, making, automatic, F. M. Jeffery.....	469,943
Stage scenery holder, E. Stanchiff.....	469,726
Station indicator, G. Meyer.....	470,135
Stool, piano, March & Wolf.....	470,066
Stove board or platform, J. J. Sweeney.....	469,875
Stove, cook, J. S. Harkins.....	469,739
Stove, hot blast, G. W. McClure.....	469,824
Stove, oil burning, Stillman & Markoe.....	470,064
Stove, regenerative hot blast, McClure & Amaler.....	469,820
Stoves, grates, etc., gas burner for, H. E. Earle.....	469,851
Strainer, tea or coffee, N. F. Whipple.....	470,026
Sump extractor, hydraulic, A. Taylor.....	470,056
Switch lock, J. J. Judge.....	469,997
Table, D. A. Hall.....	469,904
Target trap, Eaton & Damm.....	469,904
Target traps, electrical releasing device for, P. North.....	469,906
Tea kettle or similar vessel, sheet metal, F. W. Judd.....	469,742
Tea kettle, sheet metal, F. W. Judd.....	469,743
Tea or other caddy, J. N. Strong.....	470,018
Telegraph apparatus for bra. ch. office, J. B. Hurd.....	469,856
Telegraph box, non-interfering fire alarm, F. F. Loomis.....	469,745
Telephone system, T. W. O'Brien.....	469,855
Telephone transmitter, J. C. Gooding.....	469,782
Telephony, W. C. Lockwood.....	469,706
Tellurian, Parkes & Hadley.....	470,074
Tellurian, S. M. Reavis.....	469,719
Thill coupling, G. H. Allen.....	469,926
Thill coupling, C. P. Button.....	469,953
Threshing machine, G. N. Salen us.....	469,871
Tie. See Railway tie.	
Till with money changer inclosed, W. H. Staats.....	470,083
Time pieces, hand for, S. V. Beckwith.....	469,673
Tire, pneumatic, Moffat & Hnes.....	470,070
Tire splicing machine, E. Chaguetta.....	469,952
Tobacco stick or holder, H. H. Hasten.....	470,124
Tongue, vehicle, J. P. Johnson.....	469,838
Tongues, manufacture of metallic vehicle, R. R. Slinger.....	469,953
Tool rest, adjustable, L. E. Rhodes.....	470,010
Toy money bank, E. S. Boynton.....	469,732
Toy puzzle, sheet metal, J. F. W. Judd.....	469,818
Toy savings bank, A. Cotton.....	469,773
Traction engine, J. J. Moore.....	469,888
Tramway, aerial, A. H. DeCamp.....	469,908
Transfer, H. de Grouilliers.....	469,888
Transit, T. F. Randolph.....	470,076
Transporting and transferring materials, apparatus for, J. C. Murphy.....	469,912
Trap. See Target trap.	
Trays, spring clamp for children's, A. W. Wheaton.....	469,798
Trolley catch, automatic, Shepard and Lang.....	469,750
Tube. See Boiler tube.	
Tube blanks, machine for finishing the edges of, J. B. Perkins.....	469,977
Tubes r bars, machinery or apparatus for grinding and polishing, R. J. & A. Edwards.....	469,910
Tumbler cooler and cleaner, H. H. Snow.....	469,874
Type writing machine, C. S. Booth.....	469,875
Uppers, machine for lasting and trimming, W. B. Morey.....	469,972
Valve, automatic, G. W. Young.....	469,768
Valve controller, automatic, W. H. Kilbourn.....	470,143
Valve for oil wells, shut off, E. Evans.....	469,956
Valve operating mechanism for clam shell buckets, T. Symonds.....	470,020
Valve, safety, C. W. Gibson.....	469,853
Valve, steam motor, A. J. Griffin.....	469,695
Vapor generator and burner, E. F. Edgar.....	469,685
Vaporizer and burner, hydrocarbon oil, G. Botsford.....	470,138
Vaporizing apparatus, oil, J. A. Aldridge.....	469,811
Vehicle brake, L. Boiron.....	469,854
Vehicle wheel, P. Merrill.....	469,708
Velocipede, W. J. Edwards.....	469,883
Velocipede luggage carrier, R. D. Perry.....	469,715
Ventilator. See Fruit receptacle ventilator.	
Vessel, anti-rust, T. D. Brown.....	469,991
Voltate battery, H. I. Harris.....	469,123
Wagon brake, R. E. Davis.....	469,994
Wagon brake, automatic, H. J. Holman.....	469,440
Wagon jack, F. Finsterer.....	469,110
Wagon, rotatable delivery, H. S. Tutbill.....	470,022
Wagon starter, L. O. Tomlinson.....	469,758
Wardrobe, T. Buechele.....	470,152
Wash bench and wringer, combined, R. Davis.....	469,833
Wash board, J. T. Sargent.....	469,980
Washing machine, R. H. Smith.....	469,846
Watch balances, method of and apparatus for rating, C. E. Emery.....	469,967
Watch balance spring, C. Olsen.....	469,914
Water meter, O. Beckman.....	470,083
Water purifying apparatus, F. A. Bunnell.....	469,770
Water tube boiler, R. R. Zell.....	469,810
Water wheel, F. M. Bookwalter.....	469,959
Weeder, F. Hulise.....	470,133
Weighing machine, mechanical, H. E. Smyser.....	470,146
Welding machine, electric ink, C. L. Coffin.....	470,083
Well fixture, S. H. Sayre, Jr.....	469,922
Wheel. See Car wheel. Vehicle wheel. Water wheel. Wind wheel.	
Whittemore, J. Edgar.....	469,736
Wick, lamp, M. E. Elder.....	470,113
Wind wheel, M. Irzang.....	469,738
Windmill regulator, automatic, Gorrell & Clay.....	469,738
Window, J. J. Eyrard.....	470,114
Window, sliding, A. F. M. Youlten.....	469,955
Wire gate, M. W. St. John.....	469,923
Wire holder, A. E. Hendryx.....	469,941
Wire stretcher, G. W. Delbridge.....	470,109
Wood grinder, C. Cornwell.....	469,812
Wood splitting machine, C. J. Dante.....	470,104
Wool or other material by the use of steam or other fluid, apparatus for cleansing, R. J. Gatling.....	469,822
Wool, apparatus for removing vegetable matter from, L. Kern.....	469,788
Wort, apparatus for the preparation of, C. Rach.....	469,718
Wrench. See Pipe wrench.	
Wrench, A. Hullinger.....	469,701

TRADE MARKS.

Barytes, powder of, Gabriel & Schall.....	20,789
Boots, shoes, and foot wear made of leather and cloth, G. W. Herrick & Co.....	20,781
Bottles, glass, Whithall, Tatum & Co.....	20,792
Building and roofing purposes, damp course cloth for, R. Alexander.....	20,775
Canned and bottled goods, F. P. S. Jay.....	20,795
Canned meats, extract of beef, and soups, Libby, McNeill & Libby.....	20,794
Cigars, D. S. Eri & Co.....	20,787
Coffee, roasted, Thomson & Taylor Spice Company.....	20,807
Cotton, linen and hemp yarns, and thread, lute yarns, (spun, thrown or sewing) and yarns of wool, worsted, or hair, sewing, Aktien-gesellschaft fur Textil-Industrie, vormalis Dollfus-Mieg & Cie.....	20,786
Elastic woven fabrics, Glendale Elastic Fabrics Company.....	20,788
Electrical apparatus for body wear, W. I. Smith.....	20,796
Fire arms, ammunition, and fishing tackle, G. Freund.....	20,804
Food preservatives, E. F. Pearson.....	20,791
Gilding, liquid preparation for, Roessler & Hasselcher Chemical Company.....	20,797
Hair-pine, A. Angell.....	20,793
Hats, men's, McKibbin & Co.....	20,800, 20,801
Lard, bams, and breakfast bacon, George Fowler, Son & Company.....	20,777
Liniments, ointments, and unguents, W. A. Collins.....	20,786
Medicines, line of proprietary, F. M. Mares.....	20,779
Oil, olive, L. Perrano.....	20,784
Oils, paints, varnishes, and lacquers, anti-corrosive, E. Mueller & Mann.....	20,799
Remedies for purifying the blood, P. B. Monroe.....	20,778
Remedy for rheumatism, W. H. & R. W. Crippen.....	20,798
Skins and fur and clothing made or lined with skins or trimmed with fur, P. S. Jay.....	20,790
Soup preparations, Frederick King & Company.....	20,793
Toilet lotion for the skin, Lemcke & Ruppel.....	20,783
Tonic, G. C. Stillson.....	20,785
Towels, sanitary, Southall Bros. & Barclay.....	20,803
Toy ten pins, W. S. Reed Toy Company.....	20,806
Watches, chain cases, and movements, B. L. Strasburger & Co.....	20,806
Whisky, W. H. McBrayer.....	20,808, 20,809
Wines, brandies, and cordials, A. de Montebello & Co.....	20,810

A printed copy of the specification and drawing of any patent in the foregoing list, or any patent in print, issued since 1863 will be furnished from this office for 25 cents. In ordering please state the name and number of the patent desired, and remit to Munn & Co., 361 Broadway, New York.

Canadian patents may now be obtained by the inventors for any of the inventions named in the foregoing list, provided they are simple at a cost of \$40 each. If complicated the cost will be a little more. For full instructions address Munn & Co., 361 Broadway, New York. Other foreign patents may also be obtained.

Advertisements.

Inside Page, each insertion - - 75 cents a line
Back Page, each insertion - - - \$1.00 a line
The above are charges per agate line—about eight words per line. This notice shows the width of the line, and is set in agate type. Engravings may head advertisements at the same rate per agate line, by measurement, as the letter press. Advertisements must be received at Publication Office as early as Thursday morning to appear in the following week's issue.

ADAMANT WALL PLASTER
BEST PLASTERING MATERIAL KNOWN.
No experiment. Its success has been phenomenal.
Thirty factories in this and other countries.
ADAMANT MFG. CO., SYRACUSE, N. Y.

Patent Foot Power Machinery
Complete Outfits.
Wood or Metal workers with steam power can successfully compete with the large shops, by using our New **LABOR SAVING Machinery**, latest and most improved for practical shop use, also for Industrial Schools, Home Training, etc. Catalogue free.
Seneca Falls Mfg. Co.
686 Water Street, Seneca Falls, N. Y.

FRET SAW or BRACKET WOODS
Planned Ready for Use. Books of Design.
Send stamp for catalogue.
CABINET WOODS AND VENEERS.
THE E. D. ALBRO CO.,
Eastern Branch, 300 Lewis St., New York, U. S. A.
H. T. Bartlett, Mgr. F. W. Honerkamp, Asst. Mgr.
Mills, Cincinnati, Ohio.

Improved Screw Cutting LATHES
Foot and Power.
Drill Presses, Shapers, Band, Circular, and Scroll Saws.
Machinists' Tools and Supplies. Lathes on trial.
Catalogue mailed on application.
SEBASTIAN LATHE COMPANY,
44-46 Central Ave., Cincinnati, O.

T. A. C. MAKES 1st to OCTOBER 1st.
Sales of a patented specialty over two millions. Manufactured on royalty. Inventors, write us.
THE TUSCARORA ADVERTISING CO.,
COSHOCOTON, O.

After being on the Market Five Years
The **"ACME"** Still Leads!
Sizes One, Two, Three, and Four Horse Power. Arranged for either NATURAL GAS or Kerosene Oil fire, as ordered. No extra insurance required on account of the oil fire. Send for catalogue giving full particulars and prices.
ROCHESTER MACHINE TOOL WORKS. Brown's Race, ROCHESTER, N. Y.

ELECTRIC POWER APPARATUS,
FOR EVERY VARIETY OF MECHANICAL WORK.
SAFE, SURE, RELIABLE.
ESTIMATES FURNISHED. SEND FOR CATALOGUES.
THOMSON-HOUSTON MOTOR CO.,
620 ATLANTIC AVENUE, BOSTON, MASS.

THE GIBBS PATENT DUST PROTECTOR.
For protecting the nose and mouth from inhalations of dust of every character. Invaluable in mills and factories. Perfect protection with perfect ventilation. Dust inhaled into the nose and lungs results in Catarrh and Consumption. Nickel plated protector sent postpaid on receipt of \$1.
Gibbs Respirator Co.,
36 S. La Salle St., Chicago.

Hatch Chickens by Steam.
IMPROVED EXCELSIOR INCUBATOR
Will do it. Thousands in successful operation. Simple, Perfect and Self-Regulating. Lowest priced first-class Hatcher made. Guaranteed to hatch a larger percentage of fertile eggs at less cost than any other.
Send 6c. for illus. Catalog. GEO. H. STARK, Quincy, Ill.

Electric Fishing Latest, most interesting & fascinating novelty. More exciting than the real sport. For old and young. We will send our Journal, the only one devoted to electricity for beginners a \$1.00 on trial and the game for only 50c. Sample copy 10c. **ELECTRIC PROGRESS** 5631, Chicago, Ill.

COMPTONETER.
Figures any and all kinds of examples. Operated by keys. Saves 60 per cent of time. Insures accuracy and relieves all mental strain. Why don't you get one?
Send for circular.
FELT & TARRANT MFG. CO.
52-56 Illinois St., Chicago.

STEVENS PATENT SPRING KEY HOLE CALIPERS
Leader, No. 73. Price, by mail, postpaid.
3 inch.....\$0.70 1 1/4 inch.....\$0.75
Each tool will open as wide as its legs are long, so a 2 1/2 inch open a 2 1/2 inches, 3 1/4, 4, 5, 6, 8, 10. Ideal and Leader Spring Dividers and Calipers, Ideal Surface Gauges, Depth Gauges, and Fine Machinists' Tools.
Illustrated catalogue free to all.
J. STEVENS ARMS & TOOL CO.,
P. O. Box 280 Chicopee Falls, Mass.

\$5 to \$15 per day, at home, selling LIGHTNING PLATER
and plating jewelry, watches, tableware, &c. Plaster the finest of jewelry good as new, on all kinds of metal with gold, silver or nickel. No experience. No capital. Every house has good need of plating. Wholesale agents \$5. Write for circulars. **H. E. DELNO & Co.,** Columbus, O.

PORTER
AUTOMATIC ENGINE
(CENTER CRANK)
ECONOMY PERFECT REGULATION OF SPEED
ABSENCE OF ALL PARTS
REQUIRING FREQUENT ATTENTION.

World Injectors
operated entirely by a single handle and therefore the simplest to operate. Single turn of the handle is all that is required. Always to be depended upon and consequently the safest and best. If you use, or are likely to use Boiler Feeders, Ejectors, Jet Pumps, etc., send for Catalogue. It contains valuable information and tables for engineers, etc. **American Injector Co.,** 117 Larned St., Detroit, Mich.

Mining and Electrical ENGINEER,
Alfred Guillaume,
ELECTRICAL AND MINING Machinery a Specialty.
Electric Lamps for Miners.
Room 1107, Owings Building,
215 DEARBORN STREET, CHICAGO.
Ask for Guillaume's Revolving Dryer.

LYON & HEALY,
63 Monroe Street, Chicago.
Will Mail Free their newly enlarged Catalogue of Band Instruments, Uniforms and Equipments, 400 Fine Illustrations, describing every article required by Bands or Drum Corps. Contains Instructions for Amateur Bands, Exercises and Drum Major's Tactics, By-Laws and a Selected List of Band Music.

FOOT POWER LATHES
For Electrical and Experimental Work.
For Gunsmiths & Tool Makers. For General Machine Shop Work.
High Grade Tools; elegant in design, superior in construction. The best foot power lathes made, and quality considered, the cheapest. Send for catalogue and prices.
W. F. & JOHN BARNES CO., 1909 Ruby St., Rockford, Ill.

THE WATER JACKET
SIPHON CONDENSER
NO AIR PUMP.
28 IN. VACUUM.
CHICAGO WATER JACKET CONDENSER CO.
47 W. WASHINGTON ST.
CHICAGO, ILL.

THE GLEN CAMERA.
Price \$1.00. By Mail, \$1.25.
Makes pictures 2 1/2 x 3 1/2 in. With each camera is included a complete set of chemicals a full apparatus, 6 dry plates, 1 package blue process paper, 1 package card mounts, 1 printing frame, 2 japanned trays, etc. A complete instruction book with each camera.

WOOD WORKING MACHINERY
For Veneer, Fruit Package and Barrel Works.
Handle, Spoke and Turning Factories.
I. E. Merritt Machinery Co., Lockport, N. Y.

WINANS' ANTI-INCORUSTATION POWDER
OR **BOILER COMPOUND** FOR REMOVING SCALE IN BOILERS.
WILL SAVE ITS COST IN FUEL AND REPAIRING.
PEERLESS PISTON AND VALVE PACKING.
MAGNOLIA ANTI-FRICTION METAL.
ST. MARY'S ELECTRIC DAMPER REGULATOR.
J. C. WINANS 220 FREMONT ST. SAN FRANCISCO, CAL.

LASPEYRE'S PATENT CHECK VALVE
for Locomotive, Stationary, and Marine Boilers. Has many advantages over other similar devices. This valuable patent for sale. For terms and particulars, address, **M. LASPEYRE, 124 S. Water St., Philadelphia, Pa.**

THE GLEN CAMERA.
Price \$1.00. By Mail, \$1.25.
Makes pictures 2 1/2 x 3 1/2 in. With each camera is included a complete set of chemicals a full apparatus, 6 dry plates, 1 package blue process paper, 1 package card mounts, 1 printing frame, 2 japanned trays, etc. A complete instruction book with each camera.

WOOD WORKING MACHINERY
For Veneer, Fruit Package and Barrel Works.
Handle, Spoke and Turning Factories.
I. E. Merritt Machinery Co., Lockport, N. Y.

WINANS' ANTI-INCORUSTATION POWDER
OR **BOILER COMPOUND** FOR REMOVING SCALE IN BOILERS.
WILL SAVE ITS COST IN FUEL AND REPAIRING.
PEERLESS PISTON AND VALVE PACKING.
MAGNOLIA ANTI-FRICTION METAL.
ST. MARY'S ELECTRIC DAMPER REGULATOR.
J. C. WINANS 220 FREMONT ST. SAN FRANCISCO, CAL.

Shepard's New \$60 Screw-Cutting Foot Lathe
Foot and Power Lathes, Drill Presses, Scroll Saw Attachments, Chucks, Mandrels, Twist Drills, Dogs, Calipers, etc. Lathes on payment.
Send for catalogue of Outfits for Amateurs or Artisans.
Address **H. I. SHEPARD, AGENT,**
141 West 2d Street, Cincinnati, Ohio.

The Sebastian-May Co.
Improved Screw Cutting Foot & Power LATHES
Drill Presses, Chucks, Drills, Dogs, and Machinists' and Amateurs' Outfits. Lathes on trial. Catalogues mailed on application.
165 to 167 Highland Ave., **SIDNEY, OHIO.**

PORTER MFG CO. LIMITED.
BUILDERS OF AUTOMATIC AND PLAIN SLIDE VALVE ENGINES.
CONSTRUCTORS OF STEAM STAND PIPES, BOILERS AND STONE CRUSHERS.
SPECIFICATIONS SOLICITED. ESTIMATES GIVEN.

THE REMINGTON STANDARD TYPEWRITER

Isto-day, as it has ever been the leading Typewriter. Carefully tested improvements are constantly added to this famous machine.

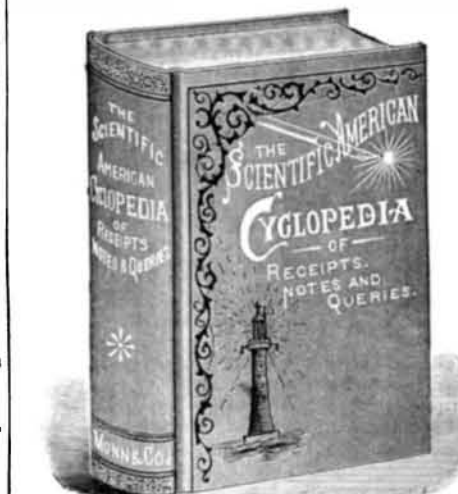


Send for Illustrated Catalogue.

TRY OUR PARAGON BRAND OF TYPEWRITER RIBBONS.

Wyckoff, Seamans & Benedict,
327 Broadway, New York.

NOW READY!
A NEW AND VALUABLE BOOK.



12,000 Receipts. 680 Pages. Price \$5.

This splendid work contains a careful compilation of the most useful Receipts and Replies given in the Notes and Queries of correspondents as published in the *Scientific American* during the past fifty years; together with many valuable and important additions.

Over Twelve Thousand selected receipts are here collected; nearly every branch of the useful arts being represented. It is by far the most comprehensive volume of the kind ever placed before the public.

The work may be regarded as the product of the studies and practical experience of the ablest chemists and workers in all parts of the world; the information given being of the highest value, arranged and condensed in concise form convenient for ready use.

Almost every inquiry that can be thought of, relating to formulae used in the various manufacturing industries, will here be found answered. Instructions for working many different processes in the arts are given.

It is impossible within the limits of a prospectus to give more than an outline of a few features of so extensive a work.

Under the head of Paper we have nearly 250 receipts, embracing how to make paper mache; how to make paper water proof and fire proof; how to make sandpaper, emery paper, tracing paper, transfer paper, carbon paper, parchment paper, colored papers, razor strop paper, paper for doing up cutlery, silverware; how to make luminous paper, photograph papers, etc.

Under the head of Inks we have nearly 450 receipts, including the finest and best writing inks of all colors, drawing inks, luminous inks, invisible inks, gold, silver and bronze inks, white inks; directions for removal of inks; restoration of faded inks, etc.

Under the head of Alloys over 700 receipts are given, covering a vast amount of valuable information.

Of Cements we have some 600 receipts, which include almost every known adhesive preparation, and the modes of use.

How to make Rubber Stamps forms the subject of a most valuable practical article, in which the complete process is described in such clear and explicit terms that an intelligent person may readily learn the art.

For Lacquers there are 120 receipts; Electro-Metallurgy, 125 receipts; Bronzing, 127 receipts; Photography and Microscopy are represented by 600 receipts.

Under the head of Etching there are 55 receipts, embracing practical directions for the production of engravings and printing plates of drawings.

Paints, Pigments and Varnishes furnish over 800 receipts, and include everything worth knowing on those subjects.

Under the head of Cleansing over 500 recipes are given, the scope being very broad, embracing the removal of spots and stains from all sorts of objects and materials, bleaching of fabrics, cleaning furniture, clothing, glass, leather, metals, and the restoration and preservation of all kinds of objects and materials.

In Cosmetics and Perfumery some 500 receipts are given.

Soaps have nearly 300 receipts. Those who are engaged in any branch of industry probably will find in this book much that is of practical value in their respective callings.

Those who are in search of independent business or employment, relating to the home manufacture of sample articles, will find in it hundreds of most excellent suggestions.

MUNN & CO., Publishers,
SCIENTIFIC AMERICAN OFFICE,
361 Broadway, New York.