

Coffee percolator, J. C. Mackey..... 256,231  
Coffee roaster, N. Harris..... 256,139  
Collars, metallic pad for horse, A. C. Staples..... 256,172  
Color producing acid, manufacture of a new, C. Rumpff..... 256,381  
Colors treating certain derivatives of coal tar, E. D. Kendall..... 256,330  
Colter, plow, M. A. Spink..... 256,250  
Cooker, steam, A. M. Mace..... 256,230  
Corn sheller, J. Q. Adams..... 256,261  
Corsets, manufacture of, I. D. Warner..... 256,180  
Cotton gin, T. Boatwright..... 256,195  
Cotton gin and press, combined, P. K. Crowell..... 256,429  
Coupling. See Car coupling. Hose coupling. Whiffletree coupling.  
Coupling, F. Brown..... 256,280  
Coupling pin for connecting rods, etc., W. E. Cooper..... 256,293  
Creamer, centrifugal, Petersen & Nielsen..... 256,365  
Crimping machine, J. W. D. Fifield..... 256,136  
Cultivator, H. A. Robertson..... 256,374  
Cultivator-tooth, J. Morter..... 256,356  
Cup. See Oil cup.  
Cuspidor, G. C. Sterling..... 256,251  
Cutter. See Bale band cutter. Vegetable cutter. Tobacco cutter.  
Dash board, E. Rattey..... 256,370  
Demijohn covering, F. A. & D. Bahr..... 256,267  
Dental plugger, Johnson & Hough..... 256,143  
Derrick, I. S. Reeves..... 256,371  
Device for suspending persons in mid-air without visible support, E. H. J. Seeman..... 256,388  
Die stock, A. J. Signor..... 256,448  
Door hanger, parlor, S. Shreffler, Jr..... 256,247  
Drawers, mechanism for automatically fastening or locking a series of, A. B. Brundrett..... 256,119  
Dyestuff or coloring matter, C. Rumpff..... 256,375  
Dyestuff or coloring matter, J. H. Stebbins, Jr..... 256,401  
Dyestuff or coloring matter, manufacture of, C. Rumpff..... 256,376 to 256,380  
Eel stop, L. M. Slade..... 256,394  
Egg beater and mixer, G. B. Fowler..... 256,310  
Electric machine, dynamo, H. B. Sheridan..... 256,391  
Electric machine, dynamo, W. Wheeler..... 256,182  
Electrical carbons, draw plate for preparing fibrous filaments for, J. H. Guest..... 256,212  
Electrical carbons, forming and treating, J. H. Guest..... 256,213  
Electrical relay, C. Ader..... 256,262  
Elevator. See Grain elevator. Ice elevator.  
Elevator, J. B. Atwater..... 256,111  
Elevator safety attachment, C. B. Morgan..... 256,354  
Engine. See Rotary engine. Wind engine.  
Envelope, K. H. Pedrick..... 256,241  
Fare register and recorder, W. H. Hornum..... 256,320  
Fence, H. P. Davis..... 256,298  
Fence, G. A. Horn..... 256,483  
Fence wire barbing machine, F. P. Cadu..... 256,121  
Fertilizer distributor and planter, A. B. Farquhar et al..... 256,430  
Fertilizer distributor and seed drill, combined, C. R. Straughn..... 256,404  
Fertilizer distributor and seeder, J. W. Spangler..... 256,249  
Fertilizers, reducing and mixing machine for, G. B. Berrell..... 256,115  
Firearm, magazine, W. Trabue..... 256,175  
Fire escape, G. W. Gibbs..... 256,207  
Fire escape, Harrison & Follard..... 256,317  
Fire escape ladder, L. D. B. Shaw..... 256,447  
Float ball for steam traps, etc., P. Barker..... 256,270  
Floor, parquet, R. W. Eltzner..... 256,306  
Flue cap, chimney, E. Blackman..... 256,194  
Fruit bleaching apparatus, Lowell & Hooker..... 256,341  
Fruit picker, J. R. & J. A. Williams..... 256,421  
Furnace. See Calcining furnace. Gas furnace. Gauge. See Water gauge.  
Gas, apparatus for making carbureted hydrogen, W. H. Taylor..... 256,406  
Gas furnace, F. Dieckmann..... 256,132  
Gas fixtures, clamp for extension, J. F. Brown..... 256,426  
Gate. See Swinging gate.  
Generator. See Magneto-electric generator.  
Glove or shoe fastener, W. B. Carpenter..... 256,198  
Governor, electrical, H. Linton..... 256,228  
Grain binder, J. F. Appleby..... 256,188  
Grain binder, G. B. Morton..... 256,257  
Grain binder, J. L. Ware..... 256,179  
Grain elevator, E. Roberts..... 256,344  
Grain transporting device, T. F. Horen..... 256,319  
Guard. See Carving fork guard.  
Guns, shield for ship's, N. B. Clark..... 256,124  
Hanger. See Door hanger.  
Harvester cutter bar, N. Boren, Jr..... 256,279  
Harvesting machine, A. Hurd..... 256,434  
Harvesting machine, D. Maxwell..... 256,151  
Harvesting machine, Smith & Hall..... 256,398  
Hat fireman's, I. Cairns..... 256,285  
Hat holder, C. C. Lyon..... 256,343  
Hat stretching machine, R. Eickemeyer..... 256,305  
Hat stretching machines, ribbed former for, R. Eickemeyer..... 256,204  
Hay rake and tedder, A. Eagle..... 256,134  
Hay tedder and rake, combined, I. L. Landis..... 256,332  
Heater, J. H. Mackintosh..... 256,345  
Hides and skins, machine for treating, J. M. Jones..... 256,326  
Hinge, A. Sweetland..... 256,405  
Hinge, gate, I. L. Landis..... 256,333  
Hinged lock, S. Needles..... 256,361  
Hoist, hog, J. Cunningham..... 256,200  
Holder. See Hat holder. Label holder. Lamp shade holder. Lead and crayon holder. Paper bag holder. Spectacle holder.  
Hook. See Clasp hook. Snap hook. Sewing machine hook.  
Hose coupling and support, J. W. Regan..... 256,163  
Hydrocarbon burner, E. A. Edwards..... 256,304  
Hydrocarbon burner, liquid, S. H. Douglas..... 256,133  
Ice elevator, S. A. Morton..... 256,155  
Indicator. See Station indicator.  
Indicator pistons, spring connection for, G. W. Brown..... 256,281  
Inkstand, calendar, J. G. Smith..... 256,396  
Jack. See Carriage jack.  
Kiln for enamel work, A. Tees..... 256,407  
Kitchen implement, J. W. Ross (r)..... 10,086  
Label holder, car, C. J. Staffer..... 256,248  
Lacing studs, making, M. Bray..... 256,116  
Ladder, step, R. F. Jones..... 256,327  
Lamp burner, argand, T. Hipwell..... 256,216  
Lamp or lantern globes, chimneys, etc., manufacture of, Parill & Miller..... 256,158  
Lamp shade holder, C. Votti (r)..... 10,087  
Lantern, railway, W. O. Stephenson..... 256,402  
Lead and crayon holder, G. Kistermann..... 256,238  
Leather buffing machine, J. H. Stevens..... 256,262  
Lemon squeezer, A. C. Rex..... 256,372  
Letter case, revolving, A. S. Currier..... 256,296  
Lock. See Belstead lock. Nut lock. Oar lock. Padlock. Trace lock. Trunk lock.  
Lock, H. C. Aldrich..... 256,263  
Locomotive, road, R. P. Bryson..... 256,120  
Lubricator. See Axle lubricator.

Magneto-electric generator for signaling purposes, J. G. Arnold..... 256,189  
Mail bag, E. P. Teeters..... 256,408  
Mechanical movement, A. E. Rust..... 256,282  
Metal bending and straightening machine, A. Wilke..... 256,260  
Metal, chill for chilling, J. P. Warner..... 256,257  
Meter. See Water meter.  
Microtome, freezing, T. Taylor..... 256,178  
Mill. See Coffee and spice mill. Windmill.  
Mixing pulverized substances with liquids, device for, C. F. Binder..... 256,274  
Monkey wrench, ratchet, W. F. McGregor..... 256,351  
Motion, device for transmitting, E. L. Smith..... 256,295  
Musical instrument mechanical, G. W. Ingalls..... 256,219  
Naphthyl sulphate soda salt, production of, J. H. Stebbins, Jr..... 256,400  
Nets, machine for making fish, J. Chaunier..... 256,287  
Nut lock, Long & Richardson..... 256,149  
Nut lock, J. Sherman..... 256,169  
Oar lock, S. Irwin..... 256,324  
Oatmeal machine, Eberhard & Turner (r)..... 10,084  
Oil cup, steam engine, J. E. Loneragan..... 256,229  
Oils, etc., treating mineral, R. Irvine..... 256,230  
Ore crushing machine, S. R. Krom (r)..... 10,085  
Ore, etc., machinery for pulverizing, F. J. & W. H. Hoyt..... 256,222  
Ore separator, J. H. Wilhelm..... 256,183  
Ore separator and concentrator, J. H. Wilhelm..... 256,184  
Oven attachment, baker's, H. R. Gordon..... 256,313  
Padlock, E. L. Perkins..... 256,159  
Padlock, G. D. Spielman..... 256,399  
Panels with artistic designs, producing metallic, H. R. Cassel..... 256,286  
Paper bag holder, T. J. Graham..... 256,138  
Paper bag machine, C. A. Chandler..... 256,123  
Paper bags, making, C. Van Hoesen..... 256,177  
Paper bags, manufacture of, M. L. Deering (r)..... 10,083  
Paper stock, etc., treating fibrous materials for, J. O. Klumsch..... 256,436  
Parer, corer, and slicer, apple, C. R. Heizmann..... 256,214  
Pavement, concrete, J. J. Schillinger..... 256,283  
Pen, fountain, P. P. Flournoy..... 256,206  
Picker. See Fruit picker.  
Pictures, method of and device for exhibiting, F. E. Mills..... 256,353  
Pills, etc., machine for manufacturing, J. A. Whitney..... 256,420  
Pills, process of and apparatus for making, J. A. Whitney..... 256,419  
Pin. See Coupling pin.  
Pipe section for tanks, removable, C. G. Mayer..... 256,249  
Piston head, H. D. Garrett..... 256,312  
Plaiting machine, S. I. Echols..... 256,302  
Pliers for attaching buttons, W. H. Ward..... 256,416  
Plow bolt, chilled, T. M. Bissell..... 256,275  
Plow, cotton, D. R. Matheny..... 256,348  
Plow, sulky, Wood & Pratt..... 256,422  
Pocket, safety, S. E. Bushnell..... 256,196  
Pot. See Tempering pot.  
Press. See Printing press.  
Printing machine delivery table, T. Nourse..... 256,363  
Printing press, plate, T. S. Bates (r)..... 10,080  
Printing press, plate, J. Tregurtha..... 256,413  
Pulley grinding machine, P. Medart..... 256,440  
Pulley spiders, machine for grinding, P. Medart..... 256,441  
Pump, W. H. Cloud..... 256,126  
Pump, air, N. B. Blackmer..... 256,276  
Pump attachment, H. Clayton..... 256,125  
Pump, chain, D. E. Shaw..... 256,187  
Rag beater, G. Miller..... 256,352  
Railway crossing, automatic, D. Lee, Jr..... 256,437  
Railway safety attachment, E. S. Eveleigh..... 256,135  
Railway signaling apparatus, W. H. Bachtel..... 256,266  
Railway tie, J. Clark..... 256,199  
Rake. See Hay rake.  
Recorder. See Steam engine recorder.  
Refrigerating and preserving meat, etc., E. N. Dickerson, Jr..... 256,299  
Refrigerating apparatus, C. G. Mayer..... 256,350  
Register. See Fare register.  
Regulator. See Windmill regulator.  
Relay and sander, C. G. Burke..... 256,427  
Reservoir, automatic storage pressure, R. E. Coggin..... 256,291  
Rivets, manufacture of tubular, M. N. Bray..... 256,117  
Roaster. See Coffee roaster. Coffee and peanut roaster.  
Rocking horse, C. Shepardson..... 256,300  
Rolls, machine for cutting grooves in, J. R. Reynolds..... 256,165  
Roofing composition, G. H. Pöschel..... 256,368  
Rotary engine, T. N. Denison..... 256,131  
Rotary engine, A. W. Von Schmidt..... 256,178  
Safe, sectional kitchen, C. Kade..... 256,328  
Sash fastener, A. Johnson..... 256,144  
Saw filing machine, T. Muncaster..... 256,300  
Saw mill head block, E. & I. D. Parker..... 256,157  
Saw set, H. H. Hitchcock..... 256,217  
Scales, weighing, W. W. Wright..... 256,423  
Scoop for grain, sugar, etc., A. B. Mattoon..... 256,150  
Screw machine, wood, A. S. Cook..... 256,127  
Screw threads, machine for cutting, I. S. Schuyler..... 256,166  
Secondary batteries, device for charging and discharging, C. E. Buell..... 256,450  
Separator. See Ore separator. Spinning machine yarn separator. Starch separator.  
Sewing buttons to fabrics, machine for, A. Borchardt..... 256,278  
Sewing machine, L. E. Higby..... 256,141  
Sewing machine hook, C. M. Hine..... 256,215  
Sewing machine shuttle, Hathaway & Loomis..... 256,318  
Sewing machine treadle, J. Sigwalt, Jr..... 256,171  
Sewing machine, wax thread, H. F. Nason..... 256,156  
Sewing machines, adjustable table and drying mechanism for, R. Ley..... 256,338  
Sewing the mouths of bags, machinery for, W. H. Martin..... 256,283  
Shaft for grindstones, etc., adjustable, W. J. Arndt..... 256,110  
Shaft prop, buggy, J. T. Baker (r)..... 10,079  
Sheller. See Corn sheller.  
Shirt, A. R. Perkins..... 256,443  
Shoe or glove fastener, S. Needles..... 256,442  
Shovel, J. A. Johnny..... 256,325  
Show case, revolving, H. Westphal..... 256,181  
Shutter fastening, destructible, P. O. Matthiessen..... 256,439  
Sleep, device for waking persons from, S. S. Applegate..... 256,265  
Smelting iron and other ores, composition for use in, W. Q. Mastin..... 256,347  
Snap hook, J. W. Regan..... 256,164  
Snath fastener, A. Schultze..... 256,385  
Spectacle holder, J. A. Shone..... 256,393  
Speed changing machine, Bergmann & Hüttemeier..... 256,273  
Spindle and bearing therefor, W. T. Carroll..... 256,122  
Spindle and device for lubricating the same, C. H. Chapman..... 256,288  
Spinning machine yarn separator, Thomas & Worral..... 256,174  
Spittoon, R. T. Gosselein..... 256,210  
Spring. See Bed spring. Vehicle spring.

Stamp, hand, W. H. Poole..... 256,242, 256,243  
Starch separator, Graves & Heede..... 256,315  
Starch table, I. A. & W. T. Jebb..... 256,221  
Station indicator, J. S. Brown..... 256,282  
Steam boiler, D. Renshaw..... 256,446  
Steam engine recorder, G. H. Crosby..... 256,294, 256,295  
Step cover, W. E. Lawrence..... 256,336  
Stove, J. L. Gobeille..... 256,208  
Stove grate, adjustable, De Guerre & Lano..... 256,130  
Stove, parlor heating, G. G. Thomas..... 256,411  
Stove pipe shelf, H. Clayton..... 256,290  
Strap. See Boot strap.  
Surveying instrument, G. W. Hill..... 256,142  
Swinging gate, I. L. Landis..... 256,331  
Table. See Billiard table. Printing machine delivery table. Starch table.  
Target flying, G. Ligowsky..... 256,227  
Telegraph, chemical, W. C. Taucke..... 256,256  
Telegraph line, underground, W. D. Smith..... 256,397  
Telephone exchange system, E. T. Greenfield..... 256,432  
Telephone exchange system, T. A. Watson..... 256,258  
Tempering pot, edge tool, C. E. Dixon..... 256,201  
Ticket, pin, A. T. Lundqvist..... 256,342  
Tie. See Railway tie.  
Tile for steam boilers, J. C. Stevens..... 256,403  
Tile of glass, porcelain, etc., for decorating walls, E. Vedder..... 256,415  
Tire tightener, Gathright & Potts..... 256,137  
Tire tightener, H. N. Lindler..... 256,339  
Tobacco and match box, combined, S. E. Scott..... 256,246  
Tobacco cutter, W. Scranton..... 256,337  
Toy circus or arena, W. W. Barnes..... 256,192  
Toy or doll house, W. W. Barnes..... 256,191  
Trace lock, J. A. Bassett..... 256,271  
Trunk lock, Donahue & Waterbury..... 256,300  
Tumbler washer, W. H. Bate..... 256,193  
Turn buckles, die for making, W. Ward..... 256,256  
Umbrella or parasol support, J. Forster..... 256,308  
Valve, M. Mickelborough..... 256,237  
Valve, balanced slide, H. C. Kriete..... 256,146  
Vegetable cutter, C. Raible..... 256,369  
Vehicle running gear, H. C. Morgan..... 256,238  
Vehicle spring, J. H. & C. S. Baldwin..... 256,249  
Vehicle spring, G. G. Buckland..... 256,284  
Vehicle spring, J. Priest..... 256,161  
Velocipede, J. O. Brown..... 256,118  
Velocipede, E. Edwards..... 256,303  
Wagon, weighing and dumping, H. R. Robbins..... 256,373  
Warper, T. C. Entwistle..... 256,205  
Wash bowl, L. H. McCormick..... 256,235  
Washer. See Tumbler washer.  
Washing machine, Bell & Hess..... 256,113  
Watch gear, machinery for beveling, J. A. Morin..... 256,355  
Watches, repeating movement for, W. E. Huguenin..... 256,218  
Water gauge and alarm, T. Amphlett..... 256,264  
Water meter, rotary, E. C. Terry..... 256,409  
Wedge driver, O. Mossberger..... 256,359  
Whiffletree coupling, J. Pendergast..... 256,364  
Wind engine, F. McClintock..... 256,234  
Windmill, G. W. Miller..... 256,154  
Windmill regulator, Lamont & White..... 256,384  
Window shade exhibitor, F. M. Tinkham..... 256,412  
Wood splitting machine, R. G. Brock..... 256,425  
Wrench. See Monkey wrench.

Advertisements.

Inside Page, each insertion - - - 75 cents a line.  
Back Page, each insertion - - - \$1.00 a line.  
(About eight words to a line.)  
Engravings may head advertisements at the same rate per line, by measurement, as the letter press. Advertisements must be received at publication office as early as Thursday morning to appear in next issue.

GET THE BEST AND CHEAPEST.

TRADE MARK.  
**Silver Finish.**  
J. A. FAY & CO.,  
Cincinnati, Ohio, U. S. A.  
Exclusive Agents and Importers for the United States, of the  
**PERIN BAND SAW BLADES,**  
Warranted superior to all others in quality, finish, uniformity of temper, and general durability. One Perin Saw cuts three ordinary saws.

**FOR SALE.**  
**TRIPLE LEAF Oil Press Mat.**  
Will make two cakes instead of one in the same box without altering the box or press. The leaves are composed of 3/4 inch wire rods running the length of the Mat, and small hair cord woven in the rods across the Mat, concealing the rods, leaving an entire hair surface with iron ribs to keep the mats from stretching. The best article ever made. Rare inducements offered to purchasers. For terms address J. A. M., Box 778, New York.



**MINERAL WOOL.**  
This Fireproof and indestructible material successfully prevents loss of heat by radiation, keeps frost from water pipes, deadens sound, checks spread of fire in walls, partitions, floors of dwellings. 25 cts. per cubic foot.  
U. S. MINERAL WOOL CO., 16 Cortlandt St., N. Y.

**SUPERIORITY PROVED**  
THE SIMPLEST & BEST SEWING MACHINE IS THE  
**LIGHT - RUNNING -**  
**NEW HOME**  
Perfect in every particular. 200,000 sold yearly.  
**NEW HOME SEWING MACHINE CO.,**  
30 Union Square, N. Y.  
Chicago, Ill., Orange, Mass., or Atlanta, Ga.

TO MANUFACTURERS AND CAPITALISTS.

Manufacturers contemplating a change of location, or capitalists desiring to engage in manufacturing, are respectfully advised that the City of Piquette is for sale, and is desirous to dispose of the same on liberal terms, a valuable tract of land with extensive Brick Buildings, Sheds, Dwelling House, Office Building, together with the Boiler, Engine, and Locomotive, etc. With a view to encourage manufacturing in our midst, the city will offer unusually liberal inducements to any party or parties who will employ a reasonable number of hands. The buildings were constructed in 1872 for Car Works, and are situated along the Pittsburg, Cincinnati and St. Louis Railway, with side tracks running through the grounds.  
Piquette is a city of 8,000 inhabitants, 88 miles north of Cincinnati on the Cincinnati, Hamilton and Dayton and Dayton and Michigan Railways, from Toledo to Cincinnati, the Pittsburg, Cincinnati and St. Louis Railway running through from Pittsburg to St. Louis and Chicago.  
The Miami and Erie Canal runs from Cincinnati to Toledo through the city, affording fine shipping facilities, and placing us in close connection with the inexhaustible hard timber supply of this vicinity and immediately north of us on the Miami and Erie Canal.  
The city has the first Water Works in Ohio, and a Hydraulic Canal furnishing power for manufacturing purposes to almost any extent.  
The following branches of industry are now represented here, and are all in a flourishing condition:  
3 Lined Oil Mills, 2 Flaming Mills, 2 Handicrafts, 2 Furniture Factories, 2 Agricultural Implement Works, 2 Straw Board and Paper Mills, 1 Paper Mill, 1 Woollen Mill, 1 Bent Wood Works, 1 Wagon Works, 1 Machine and Engine Works, 2 Flax Straw Mills, 1 Malt House, besides a number of minor enterprises.  
Correspondence is respectfully solicited, and any further information desired will be cheerfully given. Persons looking for location are invited to come here and make a personal inspection of the premises and learn further particulars.  
All communications should be addressed to  
HENRY B. FLESH,  
President of the City Council, Piquette, Ohio.



PATENTS.

MESSRS. MUNN & CO., in connection with the publication of the SCIENTIFIC AMERICAN, continue to examine Improvements, and to act as Solicitors of Patents for Inventors.  
In this line of business they have had thirty-five years' experience, and now have unequalled facilities for the preparation of Patent Drawings, Specifications, and the prosecution of Applications for Patents in the United States, Canada, and Foreign Countries. Messrs. Munn & Co. also attend to the preparation of Caveats, Copyrights for Books, Labels, Reissues, Assignments, and Reports on Infringements of Patents. All business entrusted to them is done with special care and promptness, on very reasonable terms.  
A pamphlet sent free of charge, on application, containing full information about Patents and how to procure them; directions concerning Labels, Copyrights, Designs, Patents, Appeals, Reissues, Infringements, Assignments, Rejected Cases, Hints on the Sale of Patents, etc.  
We also send, free of charge, a Synopsis of Foreign Patent Laws, showing the cost and method of securing patents in all the principal countries of the world.  
**MUNN & CO., Solicitors of Patents,**  
261 Broadway, New York.  
BRANCH OFFICE - Corner of F and 7th Streets, Washington, D. C.