

## Business and Personal.

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A \$20 Breech-loading Shot Gun for \$7. The Champion Imported Breech-loading Shot Gun, advertised in this issue by the reliable well known firm of E. G. Rideout & Co., New York, is pronounced by sportsmen to be unrivaled in every detail, well worth \$20, and the biggest bargain ever offered in firearms. Order at once, as the offer is only good until July 15.

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Propellers, 10 to 26 in. Geo. F. Shedd, Waltham, Mass.

Bradford Reduced Oils for Lubricating and Manufacturing Purposes. M. Lewellyn & Co., Olean, N. Y.

For the best Jig Saw Blades, go to Wm. Cuddy, 108 Hester St., New York.

Gardiner's Pat. Belt Clamp. See illus. adv., p. 284.

Portable Railway Track and Cars. Contractors, Planters, Miners, send for circulars. Francis W. Corey & Co., 5 & 7 Dey St., New York; 35 Washington St., Chicago, Ill.

Essay on Inventions.—What qualities will make them profitable, and how to incorporate these qualities in inventions. 25 cts. postpaid. Address N. Davenport, Valparaiso, Ind.

Improved Skinner Portable Engines. Erie, Pa.

"Rival" Steam Pumps for Hot or Cold Water; \$32 and upward. John H. McGowan & Co., Cincinnati, O. Skinner's Chuck. Universal, and Eccentric. See p. 268.

Inventors sending a three cent stamp to Inventors' Institute, Cooper Union, New York city, will receive a copy of the *Industrial News* free.

The Eureka Mower cuts a six foot swath easier than a side cut mower cuts four feet, and leaves the cut grass standing light and loose, curing in half the time. Send for circular. Eureka Mower Company, Towanda, Pa.

The Newell Universal Mill Co., Office 7 Cortlandt St., New York, are manufacturers of the Newell Universal Grinder for crushing ores and grinding phosphates, bone, plaster, dyewoods, and all gummy and sticky substances. Circulars and prices forwarded upon request.

Pure Oak Leather Belting. C. W. Army & Son, Manufacturers, Philadelphia. Correspondence solicited.

Jenkins' Patent Valves and Packing "The Standard." Jenkins Bros., Proprietors, 11 Dey St., New York.

Presses & Dies. Ferracute Mach. Co., Bridgeton, N. J.

Wood-Working Machinery of Improved Design and Workmanship. Cordesman, Egan & Co., Cincinnati, O.

The "1880" Lace Cutter by mail for 50 cts.; discount to the trade. Sterling Elliott, 262 Dover St., Boston, Mass.

Experts in Patent Causes and Mechanical Counsel. Park Benjamin & Bro., 50 Astor House, New York.

Split Pulleys at low prices, and of same strength and appearance as Whole Pulleys. Vocom & Son's Shafting Works, Drinker St., Philadelphia, Pa.

Malleable and Gray Iron Castings, all descriptions, by Erie Malleable Iron Company, limited, Erie, Pa.

Power, Foot, and Hand Presses for Metal Workers. Lowest prices. Peerless Punch & Shear Co., 52 Dey St., N. Y.

National Steel Tube Cleaner for boiler tubes. Adjustable, durable. Chalmers-Spence Co., 40 John St., N. Y.

Corrugated Wrought Iron for Tires on Traction Engines, etc. Sole mfrs., H. Lloyd, Son & Co., Pittsburg, Pa.

Best Oak Tanned Leather Belting. Wm. F. Forepaugh, Jr. & Bros., 531 Jefferson St., Philadelphia, Pa.

Slave, Barrel, Keg, and Hoghead Machinery a specialty, by E. & B. Holmes, Buffalo, N. Y.

Wright's Patent Steam Engine, with automatic cut off. The best engine made. For prices, address William Wright, Manufacturer, Newburgh, N. Y.

Nickel Plating.—Sole manufacturers cast nickel anodes, pure nickel salts, importers Vienna lime, crocus, etc. Condit, Hanson & Van Winkle, Newark, N. J., and 92 and 94 Liberty St., New York.

Presses, Dies, Tools for working Sheet Metals, etc. Fruit and other Can Tools. E. W. Bliss, Brooklyn, N. Y.

Cope & Maxwell Mfg Co.'s Pump adv., page 252.

The I. B. Davis Patent Feed Pump. See adv., p. 269.

Moulding Machines for Foundry Use. 33 per cent saved in labor. See adv. of Reynolds & Co., page 269.

The Sweetland Chuck. See illus. adv., p. 269.

Machine Knives for Wood-working Machinery, Book Binders, and Paper Mills. Also manufacturers of Solomon's Parallel Vise, Taylor, Stiles & Co., Riegelsville, N. J.

For best Duplex Injector, see Jenks' adv., p. 269.

Blake "Lion and Eagle" Imp'd Crusher. See p. 284.

4 to 40 H. P. Steam Engines. See adv. p. 286.

C. B. Rogers & Co., Norwich, Conn., Wood Working Machinery of every kind. See adv., page 285.

Long & Allstatter Co.'s Power Punch. See adv., p. 285.

Eclipse Fan Blower and Exhauster. See adv., p. 285.

Peck's Patent Drop Press. See adv., page 300.

Fire Brick, Tile, and Clay Retorts, all shapes. Borgner & O'Brien, Mfrs, 23d St., above Race, Phila., Pa.

Turbine Wheels; Mill Mach'y. O. J. Bollinger, York, Pa.

For Mining Mach'y, see ad. of Noble & Hall, p. 301.

Silica Paints (not mixed); all shades. 40 Bleecker St., N. Y.

For best Portable Forges and Blacksmiths' Hand Blowers, address Buffalo Forge Co., Buffalo, N. Y.

The Brown Automatic Cut-off Engine; unexcelled for workmanship, economy, and durability. Write for information. C. H. Brown & Co., Fitchburg, Mass.

Wren's Patent Grate Bar. See adv. page 300.

Brass & Copper in sheets, wire & blanks. See ad. p. 300.

The None-such Turbine. See adv., p. 286.

The Chester Steel Castings Co., office 407 Library St., Philadelphia, Pa., can prove by 15,000 Crank Shafts, and 10,000 Gear Wheels, now in use, the superiority of their Castings over all others. Circular and price list free.

Diamond Saws. J. Dickinson, 64 Nassau St., N. Y.

The Improved Hydraulic Jacks, Punches, and Tube Expanders. R. Dudgeon, 24 Columbia St., New York.

Eagle Anvils, 10 cents per pound. Fully warranted.

Geiser's Patent Grain Thrasher, Peerless, Portable, and Traction Engine. Geiser Mfg Co., Waynesboro, Pa.

Blake's Belt Studs are the best fastening for Rubber and Leather Belts. Greene, Tweed & Co.

Houston's Four-Sided Moulder. See adv., page 301.

For Mill Mach'y & Mill Furnishing, see illus. adv. p. 300.

New Economizer Portable Engine. See illus. adv. p. 301.

Rollstone Mac. Co.'s Wood Working Mach'y ad. p. 301.

For Light Machinists' Tools, etc., see Reed's adv., p. 301.

Rue's New "Little Giant" Injector is much praised for its capacity, reliability, and long use without repairs. Rue Manufacturing Co., Philadelphia, Pa.

Saw Mill Machinery. Stearns Mfg. Co. See p. 300.

Skinner & Wood, Erie, Pa., Portable and Stationary Engines, are full of orders, and withdraw their illustrated advertisement. Send for their new circulars.

Saunders' Pipe Cutting Threading Mach. See p. 301.

For Shafts, Pulleys, or Hangers, call and see stock kept at 79 Liberty St., N. Y. Wm. Sellers & Co.

Wm. Sellers & Co., Phila., have introduced a new injector, worked by a single motion of a lever.

Toope's Pat. Felt and Asbestos Non-conducting Removable Covering for Hot or Cold Surfaces; Toope's Pat. Grate Bar. C. Toope & Co., Mfg Agt., 353 E. 78th St., N. Y.

Use Vacuum Oil Co.'s Cylinder Oil, Rochester, N. Y.

Walrus Leather. A choice lot for Polishing Metals. Greene, Tweed & Co., 118 Chambers St., New York.

Don't buy a Steam Pump until you have written Valley Machine Co., Easthampton, Mass.

Green River Drilling Machines. See ad. p. 286.

Akron Rubber Works, Akron, O., Manufacturers of Mechanical Rubber Goods.

For Machinists' Tools, see Whitcomb's adv., p. 301.

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For Machinists' Tools, see Whitcomb's adv., p. 301.

to W. H. P., page 251 (32), and how can I keep the silver clean? A. No. Cyanide of potassium cleans silver readily, but it is very poisonous and consequently dangerous to use for such purposes or to have about the house. Lacquer or varnish is never used on such articles. The best way to clean domestic silver ware is to lightly scour it with a little fine whiting or tripoli moistened with sweet oil (olive oil). This is washed off by dipping in a strong hot solution of washing soda, then in clean hot water, on removing from which it dries quickly without rubbing. 2. What is used to stiffen washed lace and make it look new? A. Very thin clear starch or gum water.

## English Patents Issued to Americans.

From April 8 to April 12, 1881, inclusive.

Carding machinery, J. Pollitt, Philadelphia, Pa. Design, process of producing, I. S. Hyatt, U. S. A. Ivory, imitation of, I. S. Hyatt, U. S. A. Lead pencils, B. A. Fiske, Naperville, Ill. Locks and staples, G. M. Hathaway et al., Jersey City, N. J. Powdered substances, manufacture of articles from, I. S. Hyatt, U. S. A. Shoe fastening, T. L. Jacobs, New York city. Shoe machinery, D. C. Knowton, Boston, Mass. Spectacles, R. A. Carter, New York city.

[OFFICIAL.]

## INDEX OF INVENTIONS

FOR WHICH

Letters Patent of the United States were Granted in the Week Ending

April 12, 1881.

AND EACH BEARING THAT DATE.

[Those marked (r) are reissued patents.]

A printed copy of the specification and drawing of any patent in the annexed list, also of any patent issued since 1866, will be furnished from this office for one dollar. In ordering please state the number and date of the patent desired and remit to Munn & Co., 37 Park Row, New York city. We also furnish copies of patents granted prior to 1866; but at increased cost, as the specifications not being printed, must be copied by hand.

Abdominal supporter, S. A. Drewry ..... 239,943  
Acid, preparation of hydrochloric, E. Solvay..... 240,196  
Air, apparatus for using compressed, C. E. Buell..... 240,084  
Amalgamator, J. Wilkins..... 240,213  
Annunciator for telegraph lines, G. Rein..... 240,182  
Auger, earth, J. F. Doud..... 240,012  
Awl and awl plate, pricking, C. H. Inman..... 239,368  
Bag, T. H. Mayhew..... 240,158  
Baking pan, A. S. Jackson..... 240,138  
Baling press, W. A. Wright..... 240,068  
Bat for rackets, lawn tennis, etc., H. Richardson..... 240,183  
Bed lounge, Wilkes & Hyer..... 240,212  
Bedstead fastening, A. Roggy..... 240,040  
Bedstead, invalid, F. A. Kittell..... 240,148, 240,149  
Beer barrels, air pressure apparatus for, A. Storck..... 239,993  
Bell and alarm, combined door, M. Truby..... 240,203  
Billiard table cue bridge, T. R. Bullock..... 239,331  
Bolt making die, Pond & Frost..... 240,181  
Book stand, B. V. Buffington..... 240,085  
Books, binding, H. Brehmer..... 239,927  
Boot and shoe heel plate, A. W. Brinkerhoff..... 239,929  
Boot and shoe soles, edge plane for trimming, J. W. Dodge..... 240,104  
Boots and shoes, manufacture of, A. Altmayer..... 239,915  
Bottle holder, M. B. Hood..... 239,956  
Bottle wrapper, J. Shellenberger..... 239,987  
Bottles or glass, transferring and stamping designs, etc., upon, B. D. Baldwin..... 240,002  
Bracelet, Vester & Becker..... 240,206  
Brick, kiln or oven for burning, R. Müller..... 240,164  
Brick machine, H. C. Barker..... 239,917  
Bristles, method of and machinery for arranging, A. S. Miles..... 240,036  
Brush, J. M. Dennis..... 240,103  
Burglar alarm, H. Holcroft..... 240,024  
Butter, preserving, J. Harzer..... 240,126  
Button, sleeve or cuff, C. A. Foster..... 240,116  
Calendars, manufacturing, J. Cussons..... 240,099  
Camera plate holder, M. Flammang..... 240,016  
Candy package, A. E. Isham..... 240,137  
Cans, apparatus for filling fruit and vegetable, J. B. Baker..... 240,072  
Car brake, O. B. Bussey..... 240,087  
Car brake, J. F. Mallinckrodt..... 240,083  
Car coupling, S. T. & S. D. Autey, Jr..... 239,916  
Car coupling, Gilbert & Prather..... 240,017  
Car coupling, J. Martz..... 240,155  
Car coupling, J. E. Smith..... 239,990  
Car platform, freight, T. Trimble..... 240,202  
Car wheel, W. H. Smith..... 239,991  
Carding machines, burr conveyor for, I. Newell..... 239,977  
Carpet linings, machine for making, C. K. Stinson..... 240,198  
Carpet stretcher, H. Z. Coles..... 240,092  
Carpet sweeper, M. R. Bissell..... 239,924  
Carriage curtain fastening, J. G. English..... 240,110  
Carriage seat, J. M. Perkins..... 240,177  
Carriage top standard, C. C. Egerton..... 239,984  
Carriage tops, concealed jointed brace for, D. W. Baird (r)..... 9,645  
Carousel, A. Wellard..... 240,061  
Cartridge closing machine, C. Buckley..... 239,930  
Casting machine, type, Payver & Whitelaw..... 240,173  
Chain, E. L. Howe..... 240,132, 240,133  
Chain, ornamental, E. F. Nortemann..... 240,168  
Cigar pipe, H. A. Hutson..... 240,134  
Cigarette case, G. Campbell..... 239,932  
Circuit closer, T. N. Vail..... 240,205  
Clipping machine, animal, E. W. Noyes..... 239,978  
Clock, alarm, W. K. Chase..... 240,090  
Clock case, S. B. Jerome..... 240,142  
Clock movement, A. E. Hotchkiss (r)..... 9,656  
Clock striking mechanism, S. F. Estell..... 240,013  
Clutch, friction, T. F. Carver..... 239,933  
Coaches, seat for passenger, S. J. Tucker..... 240,204  
Coin holding trinket, C. Gullberg..... 240,019  
Collar pad, J. R. Jones..... 240,144  
Cooling and refrigerating apparatus, H. F. Stanley..... 240,049  
Cooling board, B. F. Gleason..... 239,950  
Corn popper, A. B. Wood..... 240,066  
Corn sheller, D. C. Stover..... 240,062  
Corset, M. P. Bray..... 240,082  
Corset steel fastening, T. C. Bates..... 239,919  
Corsets, former for shaping, W. A. Nettleton..... 240,166  
Cotton chopper, M. E. Rudasill..... 240,189  
Crane, water, Morris & Cook..... 239,973  
Creamer, centrifugal, Pedersen & Eickhoff..... 240,175

Cripper, Poe & Fugate..... 240,180  
Cultivator, D. O. Everest..... 239,947  
Cultivator, J. L. Shaw..... 240,192  
Cultivator tooth, J. J. McClen..... 240,159  
Cupola furnace, G. Ibrügger..... 240,135, 240,136  
Curtain roller, spring, C. T. Segar..... 240,191  
Dentist's chair, E. T. Starr..... 240,050  
Ditching machine, F. W. Hales..... 240,124  
Electric call, Currier & Rice..... 240,010  
Electric conductor, J. Reese..... 240,039  
Elevator safety device, S. Shaw..... 240,138  
End gate, wagon, S. Whitehall..... 240,063  
Envelope, C. König, Jr..... 239,965  
Excavator, J. C. Dillon..... 239,941  
Fan attachment, W. A. Roos..... 240,188  
Feed bag, nose, C. J. Gustavson..... 240,122  
Feed-basket, O. Nowell..... 240,169  
Feed water heater, A. J. Stevens..... 240,197  
Fence wire spike, T. J. Howell-Thurlow-Cumming-Bruce..... 240,083  
Fertilizer, W. W. Hubbell..... 240,025  
Fiber extractor, Laberie & Berthet..... 240,029  
File, card, J. Behl et al (r)..... 9,646  
Filters, apparatus for recarbonizing charcoal in, R. S. Jennings..... 239,962  
Filters, cleansing, R. S. Jennings..... 239,961  
Fire alarm repeater, G. F. Ballou..... 240,074  
Firearm, breech-loading, D. Kirkwood..... 240,147  
Fire escape, Moore & Brown..... 240,162  
Fire escape ladder, H. C. Bender..... 239,921  
Foot rest, cuspidor, S. N. & T. Curtiss..... 240,011  
Fruit drier, W. C. Evans..... 240,111  
Funnel, P. McAuslan..... 239,967  
Game box, C. H. Widger..... 239,997  
Gas generating furnace, R. Müller..... 240,165  
Gate, Baker & Jackson..... 240,073  
Gear wheels, cutter for forming the teeth of, W. Hecker..... 240,129  
Glassware, tool for the manufacture of, Halsey & Miller..... 240,022  
Grain, cleaning and separating, S. Truax..... 239,994  
Grain drills, grass seed attachment to, J. P. Fulgham (r)..... 9,651  
Grain separator, rotary, H. A. Barnard..... 240,075  
Grate and fireplace, E. D. Merrick..... 240,035  
Gravel, coal, etc., handling or transferring, L. Stevens..... 240,051  
Harvester, C. Wheeler, Jr..... 240,064  
Harvester rake, G. & L. Sweet (r)..... 9,635  
Harvester tripping device, F. W. Randall..... 239,982  
Hats, brace for packing, R. F. Hayes..... 240,128  
Heel trimming machine, O. W. Hall..... 240,135  
Holdback, A. F. Limbriht..... 240,032  
Hopple, C. J. Gustavson..... 240,121  
Hub, wheel, J. R. Anderson..... 240,000  
Hydrocarbon burners, automatic safety reservoir for, M. A. Shepard..... 239,988  
Ice crusher, N. Richardson..... 240,185  
Ink, indelible, A. N. Morse..... 239,974  
Inks, base for safety lithographic, J. Hendrichs..... 239,954  
Injector, steam engine, E. Davies..... 240,101  
Insulating telegraph wires or cables, process of and apparatus for, A. K. Eaton..... 240,106  
Interlocking switch and signal apparatus, H. Tilden..... 240,054  
Jeweler's braided metallic stock, A. S. Crane..... 240,096  
Kneader, dough, M. E. Ewell..... 240,015  
Knitting machine burr, S. Condé..... 239,908  
Lacing hooks for boots, shoes, etc., M. Bray..... 240,026  
Lamp burners, extinguisher for tubular, C. H. Kohler..... 239,964  
Lamp, electric, E. Weston..... 240,210  
Lamps, device for equalizing the arcs of electric, E. Weston..... 240,211  
Lathe, spinning, J. F. Kerns et al..... 240,145  
Lead and crayon holder, T. S. Crane..... 240,097  
Lead traps, machine for manufacturing, F. N. Du Bois (r)..... 9,649  
Leather stretching machine, W. Coupe..... 240,095  
Locomotive exhaust nozzle, H. K. Austin..... 240,071  
Loom, R. Collins..... 239,935, 239,936  
Loom, G. Crompton..... 240,009  
Loom shedding mechanism, G. Crompton..... 239,939  
Low water indicator, W. L. Parker..... 239,980  
Lounge, folding, Fischer & Nonnenmacher..... 240,114  
Lubricator, I. T. Hardy..... 240,021  
Metallurgic and other furnaces, C. Pernot..... 240,037  
Metals from ores, separating, E. A. Crocker..... 240,093  
Middlings purifier, Dorsey & Mower..... 240,163  
Monument, D. Schuyler..... 240,082, 240,043  
Moss, clearing and preparing Spanish, A. Fellows..... 239,948  
Mowers, cutting apparatus for lawn and other, E. W. McGuire..... 240,034  
Musical instrument, mechanical, R. W. Matthews..... 240,156  
Nails, machine for making string, L. Goddu..... 240,119  
Nut wrench, reducing socket ratchet, J. A. Miller..... 239,979  
Oil cup, J. L. Winslow..... 240,214  
Oiler, J. M. Shew..... 240,045  
Oyster package, O. P. Johnson..... 240,143  
Paint burner, Easterbrook & Schnitzler..... 240,105  
Paper box and partition, G. L. Jaeger..... 240,141  
Paper perforating machine, K. T. Smith (r)..... 9,653  
Paper pulp for floors, brake shoes, journals, etc., plastic composition from, W. M. Graze..... 239,951  
Parer and slicer, apple, W. Robb..... 240,186  
Pawl and ratchet mechanism, A. T. Brewer..... 239,928  
Petroleum, deodorizing and refining, M. Connelly..... 240,093  
Petroleum products and process of obtaining and deodorizing the same, M. Connelly..... 240,094  
Photographic camera, T. H. Blair..... 239,935  
Photographic printing frame, A. H. Atwood..... 240,001  
Piano frame, G. E. Freudenthal..... 239,949  
Picture nail, A. G. Hofstatter..... 240,023  
Pillow block, J. Sinnamon..... 240,046  
Planing machines, feed motion for metal, J. B. Matthews..... 239,969  
Planter, combined corn and cotton, H. H. Carter