

- 93,046.—REFRIGERATOR.—E. D. Brainard, Albany, N. Y.
- 93,047.—BITTING HARNESS.—Benjamin F. Brewster, Norwich, Conn.
- 93,048.—DRYER.—Joshua W. Brooks and Henry Rudoff, Ashley, Ill.
- 93,049.—HARVESTER RAKE.—F. M. Buckles (assignor to himself and J. A. Stuckey), Altona, Ill.
- 93,050.—POTATO DIGGER.—John M. Burke, Dansville, N. Y.
- 93,051.—STEAM AND AIR ENGINE.—Charles Burleigh, Fitchburg, Mass.
- 93,052.—WATER TANK FOR RAILROADS.—John Burnham, Batavia, Ill.
- 93,053.—STEAM ENGINE.—W. H. Carr, New York city.
- 93,054.—BALANCE SCALE.—Geo. W. Chandler, Fitchburg, assignor to himself and John G. Folsom, Winchendon, Mass.
- 93,055.—CAR COUPLING.—W. H. H. Clark, Burlington, Iowa.
- 93,056.—CUTTER HEAD.—M. W. Clark, Worcester, Mass.
- 93,057.—MACHINE FOR GINNING AND CLEANING COTTON.—L. T. Clement, Smyrna, Tenn.
- 93,058.—HINGE.—Calvin Cole Ithaca, N. Y.
- 93,059.—CAR BRAKE AND STARTER.—J. A. Cole, Adams, N. Y.
- 93,060.—SLUCE AND BLANKET FOR COLLECTING GOLD AND SILVER.—Ezra Coleman (assignor to himself and Almond F. Cooper), San Francisco, Cal.
- 93,061.—CHURN.—J. A. Cozad, Mercer, Pa.
- 93,062.—SHEEP TAGGING BOX.—E. D. Crawford, North Star, Pa.
- 93,063.—GATHERING ATTACHMENT FOR SEWING MACHINES.—J. A. Davis, Watertown, N. Y.
- 93,064.—TUCK-CREASING ATTACHMENT FOR SEWING MACHINES.—J. A. Davis, Watertown, N. Y.
- 93,065.—SEWING MACHINE.—J. A. Davis, Watertown, N. Y.
- 93,066.—APPARATUS AND PROCESS FOR THE MANUFACTURE OF SALT.—J. A. Davis, Watertown, N. Y.
- 93,067.—CARRIAGE WHEEL.—D. P. Davis, New York city, assignor to himself, W. J. Coombs, and G. H. Gardner.
- 93,068.—COVERED CLASP FOR HOOP SKIRTS.—F. E. Day (assignor to himself and L. H. Day), New York city.
- 93,069.—DUMPING CART.—Fred. Dengler, North Vernon, Ind.
- 93,070.—CENTER-BOARD FOR VESSELS.—Jonathan Dillon, New York city.
- 93,071.—SASH HOLDER.—J. S. Elkins, Marquette, Wis.
- 93,072.—APPARATUS FOR EVAPORATING AMMONIACAL AND OTHER LIQUIDS.—L. S. Fales, New York city.
- 93,073.—VALVE FOR HYDRAULIC PRESS.—J. B. Fenby, Birmingham, England. Patented in England, Oct. 30, 1867.
- 93,074.—COAL SIFTER.—W. C. Frederick, Chicago, Ill.
- 93,075.—MANUFACTURE FROM BANANAS AND PLANTAINS.—Joseph Fry, New Orleans, La.
- 93,076.—RAILWAY FROG.—W. B. Gage, Saratoga Springs, and W. H. Staats, Crescent, N. Y.
- 93,077.—GANG PLOW.—C. F. Gay, Albany, Oregon.
- 93,078.—HASP LOCK.—E. L. Gaylord, Terrysville, Conn.
- 93,079.—SASH HOLDER.—Lewis Gibbs, Canton, Ohio.
- 93,080.—HAND CULTIVATOR.—J. H. Hill, Mount Pleasant, Ohio.
- 93,081.—BEEHIVE.—Miller Graham, Coshocton, Ohio.
- 93,082.—SCROLL-SAWING MACHINE.—T. B. Greene and C. Greene, Abington, Ind.
- 93,083.—MANUFACTURE OF SHEET AND PLATE IRON.—N. C. Gridley, Milwaukee, Wis.
- 93,084.—STENCH TRAP.—J. S. Haley and Samuel Worrell, New York city.
- 93,085.—METALLIC KEYS.—Wm. Hill, Pottsville, Pa.
- 93,086.—COMPOSITION DENTAL PLATE.—Asa Hill, Norwalk, Conn.
- 93,087.—LAMP BURNER.—George Hillegass, Philadelphia, Pa. Antedated July 21, 1869.
- 93,088.—CALENDAR MOVEMENT FOR TIME-PIECES.—Ervin Homrighous, Shelbyville, Ill.
- 93,089.—PROJECTILES FOR ORDNANCE.—B. B. Hotchkiss, New York city. Antedated July 20, 1869.
- 93,090.—HAND STAMP.—T. S. Hudson, East Cambridge, Mass.
- 93,091.—RAZOR STRAP.—Jabez Jenkins, Philadelphia, Pa.
- 93,092.—OIL CAN.—W. E. Jenkins, Auburn, N. Y.
- 93,093.—EMBROIDERING ATTACHMENT FOR SEWING MACHINES.—W. T. Johnson, Ottumwa, Iowa.
- 93,094.—MEAT CUTTER.—August Klein, New York city.
- 93,095.—SPITTOON.—J. M. Klengenreich (assignor to John H. Miller), Buffalo, N. Y.
- 93,096.—SPRING-BED BOTTOM.—Alois Knepler, East New York, N. Y.
- 93,097.—SCREW PRESS.—F. H. Laforge and Geo. E. Somers, Waterbury, assignors to themselves and N. A. Baldwin, Milford, Conn.
- 93,098.—DETACHABLE HORSESHOE CALK.—Perley Laffin, Warren, assignor to himself and Z. E. Cary, West Brookfield, Mass.
- 93,099.—APPARATUS FOR MAKING BROMINE.—Herman Lerner (assignor of three-fourths of said invention to August Mayer, Geo. Bauer, and Henry Rectanus), Pomeroy, Ohio.
- 93,100.—FULLING MILL.—Wm. B. Lodge, Danbury, Conn. Antedated July 23, 1869.
- 93,101.—ATTACHMENT FOR GAS BURNER.—J. C. Love (assignor to himself and Silas Fuller), Philadelphia, Pa.
- 93,102.—COMPOUND FOR RENDERING FABRICS WATER REPELLENT.—R. O. Lowrey, Salem, N. Y.
- 93,103.—BOOTS AND SHOES.—John Macintosh and William Bogett, London, Great Britain. Antedated July 22, 1869.
- 93,104.—HOT-WATER APPARATUS.—H. L. McAvoy, Baltimore, Md.
- 93,105.—HYDROCARBON BURNER.—Edmond P. McCarthy, San Francisco, Cal.
- 93,106.—APPARATUS FOR BENDING CLEVIS BLANKS.—Thos. Meikle, Louisville, Ky.
- 93,107.—PRESS FOR OPERATING, BENDING, AND SHAPING DIERS.—W. D. Mendenhall, Farmington, Ill.
- 93,108.—DRILL CHUCK.—G. W. Miller, Woonsocket, R. I.
- 93,109.—GALLEY REST.—Edward Morgan, Washington, D. C.
- 93,110.—ROLLER SKATE.—W. R. Morris, Cincinnati, Ohio.
- 93,111.—TRACE FASTENER.—F. B. Morse, New Haven, Conn.
- 93,112.—DOOR LATCH.—Jacob Mosher, Mendota, Ill. Antedated July 21, 1869.
- 93,113.—METHOD OF EXPLODING NITRO-GLYCERIN.—Geo. M. Mowbray, Titusville, Pa.
- 93,114.—SKATE.—J. W. Nathan, Chicago, Ill.
- 93,115.—HARROW.—A. A. Nuquist, Oneida, Ill.
- 93,116.—CORN PLANTER.—John I. Patton, Tiffin, Ohio.
- 93,117.—LAMP BURNER.—John M. Perkins, Cleveland, Ohio.
- 93,118.—SPRING-BED BOTTOM.—Jas. Potter, Portland, Me.
- 93,119.—REAMER.—A. J. Prescott, Catawissa, Pa.
- 93,120.—SLATE.—Louis Pritchard, Brooklyn, N. Y.
- 93,121.—FILTERING AND VENTILATING APPARATUS FOR WELLS AND CISTERNS.—B. B. Redfield, Pontiac, Mich.
- 93,122.—STEERING APPARATUS.—Nathan Richardson (assignor to himself and E. F. Stacey), Gloucester, Mass.
- 93,123.—RAILWAY-CAR WHEEL.—John Rogers, Cincinnati, Ohio.
- 93,124.—MACHINERY FOR BREAKING COTTON SEED.—Thos. Rose, Oxtou, and R. E. Gibson, New Brighton, England.
- 93,125.—STEAM-ENGINE VALVE-GEAR.—C. E. Rymes, Somerville, Mass.
- 93,126.—RATTAN CUTTER.—J. B. Sawyer, East Templeton, Mass.
- 93,127.—PROCESS OF PURIFYING AND REFINING ALCOHOLIC LIQUIDS.—Francis Schleifer (assignor to himself, and Francis Cutting), San Francisco, Cal.
- 93,128.—REFRIGERATOR.—S. R. Scoggins, Baltimore, Md.
- 93,129.—PAINT.—F. C. Semelroth, Logansport, Ind.
- 93,130.—KNAPSACK ATTACHMENT.—Jas. Sherlock, New York city.
- 93,131.—PREPARATION OF IRON FOR MEDICAL PURPOSES.—J. E. Siebel, Chicago, Ill.
- 93,132.—SASH FASTENER.—H. B. Snyder, Cherry Grove, Ohio.
- 93,133.—BALANCE SLIDE-VALVE.—Antoine Steber, Utica, N. Y.
- 93,134.—SACK HOLDER.—David Stollum, Union City, Ind., assignor to himself, Wm. A. Skellen, and E. M. Glick, Shelby county, Ohio.
- 93,135.—MACHINE FOR VARNISHING FLOOR OIL-CLOTH.—C. W. Strout, and Amos Wilder, Hallowell, Me.
- 93,136.—WATER WHEEL.—B. J. Talbot, Iowa Falls, Iowa.

- 93,137.—ALLOY FOR SABOT OF PROJECTILE.—Thos. Taylor, Washington, D. C. Antedated July 15, 1869.
- 93,138.—GIG SAWING MACHINE.—Alex. Thompson and Zera Waters, Bloomington, Ill.
- 93,139.—CONSTRUCTION OF HOT-WATER BOILERS.—John Truesner, New York city.
- 93,140.—CORN PLANTER.—W. F. Tunnard, East Baton Rouge parish, La.
- 93,141.—CHEWING-GUM COMPOUND.—Amos H. Tyler, Toledo, Ohio.
- 93,142.—CONCRETE PAVEMENT.—A. Van Camp, Washington, D. C., assignor to himself, and M. M. Hodgeman, St. Louis, Mo.
- 93,143.—LINIMENT.—W. H. Wallack, Corunna, Ind.
- 93,144.—COMBINED ABDOMINAL AND UTERINE SUPPORTER.—Zera Waters, Bloomington, Ill.
- 93,145.—OVEN.—W. C. Wedge, Chicopee, Mass.
- 93,146.—RAILWAY-CAR TRUCK.—Ashbel Welch, Lambertville, N. J.
- 93,147.—BINDING ATTACHMENT FOR SEWING MACHINES.—Washington Wendell, Milwaukee, Wis.
- 93,148.—SHINGLE MACHINE.—G. F. White, Aurora, Oregon.
- 93,149.—SHRECH-LOADING FIREARM.—Eli Whitney, C. Gerner, and F. Tiesing, New Haven, Conn., said Gerner and Tiesing, assignors to Eli Whitney.
- 93,150.—RAILWAY-CAR AXLE-BOX.—W. E. Wilcox (assignor to himself and T. H. Willis), Peoria, Ill.
- 93,151.—RAILWAY-CAR AXLE-BEARING.—W. E. Wilcox, Peoria, and T. H. Willis Beardstown, Ill.
- 93,152.—RAIN-WATER SPOUTING.—Garret Williams, West Middleburg, Ohio.
- 93,153.—COFFEE POT.—P. B. Willoughby and H. G. Phelps, Judd, Wis.
- 93,154.—COMBINED PLOW, CULTIVATOR, AND POTATO DIGGER.—H. B. Smith, Tremont, Ill.
- 93,155.—MANUFACTURE OF IRON AND STEEL.—J. J. Johnston, Allegheny City, Pa.

REISSUES.

- 93,068.—VENTILATING CAP FOR TENTS.—Dated August 20, 1861; reissue 3,565.—Thomas Boyton, Boston, Mass.
- 59,951.—SAW.—Dated Nov. 27, 1866; reissue 2,695, dated July 23, 1867; reissue 3,566.—E. M. Boynton, Grand Rapids, Mich., assignee of Alfred Boynton.
- 86,380.—MANUFACTURE OF TARRED PAPER, PASTEBOARD, ETC.—Dated Feb. 2, 1869; reissue 3,567.—H. F. Evans, Beloit, Wis.
- 29,479.—DEVICE FOR SEPARATING COAL FROM SLATE.—Dated August 7, 1860; reissue 3,568.—L. P. Garner, Ashland, Pa.
- 76,925.—BLAST GUN.—Dated April 21, 1868; reissue, 3,569.—Chas. Kirchnhoff, Newark, N. J.
- 81,010.—CASE FOR ROTARY BLOWER.—Dated August 11, 1868; reissue 3,570.—P. H. Roots, and F. M. Roots, Connersville, Ind.
- 78,328.—CUTLERY.—Dated May 26, 1868; reissue 3,571.—Moses Rubel, Chicago, Ill.
- 18,175.—TYPE-SETTING AND DISTRIBUTING MACHINE.—Dated Sept. 15, 1857; reissue 3,572.—The Alden Type-Setting and Distributing Machine Company, New York city, assignees, by mesne assignments, of Timothy Alden.

DESIGNS.

- 3,585.—COAL-HOD SPOUT.—W. H. Brown, Rochester, N. Y.
- 3,586.—TEAPOT HANDLE.—L. C. Clark, Plantsville, Conn.
- 3,587.—GATE.—J. J. Ferris, Philadelphia, Pa., assignor to himself and Murphy and Brown. Antedated May 18, 1869.
- 3,588.—FORK OR SPOON HANDLE.—E. C. Moore, Yonkers, N. Y., assignor to Tiffany and Company, New York city.
- 3,589.—BOX.—J. J. Philbrick, Zanesville, Ohio.
- 3,590 and 3,591.—PLATES OF A STOVE.—Garrettson Smith, and Henry Brown (assignors to Abbott and Noble), Philadelphia, Pa. Antedated June 29, 1869. Two Patents.
- 3,592.—CASKET HANDLE.—H. C. Wilcox (assignor to the Meriden Britannia Company), West Meriden, Conn.

EXTENSION.

MORTISING WINDOW BLINDS.—Jos. A. Peabody, of Philadelphia Pa.—Letters Patent No. 13,271, dated July 17, 1865.

NEW PUBLICATIONS.

A GENERAL TREATISE ON THE MANUFACTURE OF SOAP, Theoretical and Practical; Comprising the Chemistry of the Art, a Description of all the Raw Materials and their Uses, Directions for the Establishment of a Soap Factory, with the Necessary Apparatus, Instructions in the Manufacture of every Variety of Soap, the Assay and Determination of the Value of the Alkalies, Fatty Substances, etc., etc. By Professor H. Dussauce, lately of the Laboratories of the French Government. Author of "A Practical Guide for the Perfumer," "A Complete Treatise on Tanning, Currying, and Leather Dressing," etc. With an Appendix, containing Extracts from the Reports of the International Jury on Soaps, as Exhibited in the Paris Universal Exposition, 1867, numerous Tables, etc. Philadelphia: Henry Carey Baird, Industrial Publisher, 406 Walnut street. London: Trubner & Co., 60 Paternoster Row.

That this work was not called a cyclopaedia of the soap manufacture was not, certainly, that the extent of the information contained in it would not justify the title. It is a very thick octavo volume, containing 807 pages of carefully-prepared matter pertaining to one of the most important branches of industry. The best review that could be given of it would be the transcription of its copious index, in itself occupying 25 full pages. The topics comprised in this extended list, not one of which is superfluous, are each discussed with clearness, force, and simplicity, the author never losing sight of the practical bearings of his subject, and treating the whole in the happy style which has made his other industrial works deservedly popular. It would be useless for us to attempt an elaborate review of this work in the limited space we could spare for the purpose. Our readers will find in another column an extract from it, containing general observations on the industrial fatty bodies. The work is undoubtedly the most complete treatise upon the subject ever published. Price, by mail, free of postage, ten dollars.

A COMPENDIOUS MANUAL OF QUALITATIVE CHEMICAL ANALYSIS. By Charles W. Eliot, Professor of Analytical Chemistry and Metallurgy, and Frank H. Storer, Professor of General and Industrial Chemistry, both in the Massachusetts Institute of Technology. New York: D. Van Nostrand, Publisher, 23 Murray street, and 27 Warren street.

This treatise is confined to the theory and practice of qualitative analysis in the wet way, and is intended to form an introduction to the study of chemical analysis, but comprises all that is requisite to meet the wants of those who aim at becoming professional experts. The latter class of students will find, however, that the study of this work will be an excellent preparation for a more extended course. It is further confined to the examination of inorganic solids and liquids. The metallic elements are put into seven classes: Class first being those precipitated as chlorides; class second those precipitated as sulphides insoluble in dilute acids, and not redissolved by ammonia; class third, those precipitated as sulphides insoluble in dilute acids, but redissolved by alkaline liquids; class fourth those precipitated by ammonia usually as hydrates—namely, iron, aluminium, and chromium, together with certain salts which require an acid solvent; class fifth, those precipitated as sulphides insoluble in alkaline liquids; class sixth, those precipitated as carbonates; and class seventh, remaining elements distinguished by special tests.

While we do not approve this classification for an extended course of analysis, we are inclined to believe that for the purposes of the present treatise it is a good one, and that for the examination of such substances as do not contain the more rarely occurring elements it will be found more serviceable than many which have preceded it. Altogether, we like the book, and would recommend it particularly to those who are desirous of pursuing a course of analysis without a personal instructor. Such will find a full catalogue of the necessary apparatus and reagents appended.

WEDLOCK; or, the Right Relations of the Sexes; Disclosing the Laws of Conjugal Selection, and showing who may and who may not Marry. By S. R. Wells, 339 Broadway, New York city. 12mo, pp. 233, cloth, \$1.50. For sale by all booksellers.

We are in receipt of the "Twelfth Annual Report of Commissioners of the Central Park, for the Year ending December 31, 1868." It is an ably-written and interesting document.

APPLICATIONS FOR EXTENSION OF PATENTS.

- MACHINE FOR SAWING AND EDGING CLAPBOARDS.—Aretus A. Wilder, of Detroit, Mich., has applied for an extension of the above patent. Day of hearing Oct. 11, 1869.
- MILL FOR GRINDING APPLES.—W. O. Hickok, of Harrisburg, Pa., has petitioned for the extension of the above patent. Day of hearing, November 1, 1869.
- LOOM.—James O. Lynch, of Ballston Spa, N. Y., has applied for an extension of the above patent. Day of hearing October 11, 1869.

Inventions Patented in England by Americans.

- [Compiled from the "Journal of the Commissioners of Patents."]
- PROVISIONAL PROTECTION FOR SIX MONTHS.
- 2,074.—WATER METER.—Pratt, Whitney and Co., Hartford, Conn. July 5, 1869.
 - 1,557.—STOP COCK.—Z. E. Coffin, Newton Center, Mass. May 29, 1869.
 - 1,565.—BRECH-LOADING FIREARM.—R. E. Stephens, Owensound, and Jas. Ferrier and G. D. Ferrier, Montreal, Canada. July 1, 1869.
 - 2,066.—LIQUID METER.—J. P. Smith, Cleveland, Ohio. July 2, 1869.
 - 2,069.—SPRING FOR RAILROAD CARS, ETC.—P. G. Gardner, New York city. July 3, 1869.
 - 2,018.—IMPLEMENT FOR DRAWING NAILS.—Willis Churchill, New York city. July 3, 1869.
 - 2,025.—MANUFACTURE OF BAR IRON AND THE MACHINERY FOR ROLLING THE SAME INTO VARIOUS FORMS.—Jas. Montgomery, New York city. July 5, 1869.
 - 2,037.—REFRIGERATOR.—Wilson Bray, Stockton, N. J. July 6, 1869.
 - 2,050.—PUDDLING FURNACE.—James Montgomery, New York city. July 7, 1869.
 - 2,052.—CHAMPELIER.—I. P. Frink, New York city. July 7, 1869.
 - 2,054.—PREPARING AND PRESERVING MEAT.—A. S. Lyman, New York city. July 7, 1869.
 - 2,103.—APPARATUS FOR GENERATING HYDROGEN GAS, AND FOR CARBURETING HYDROGEN GAS OR ATMOSPHERIC AIR FOR ILLUMINATING AND OTHER PURPOSES.—C. F. Dunderdale, New York city. July 12, 1869.

GREAT VALUE OF PATENTS.

PROBABLY no investment of a small sum of money brings a greater return than the expense incurred in obtaining patents, even when the invention is but a small one. Larger inventions are found to pay correspondingly well. The names of Blanchard, Morse, Bigelow, Colt, Ericsson, Howe, McCormick, Hoe, and others, who have amassed immense fortunes from their inventions, are well known. And there are hundreds of others who have realized large sums—from fifty to one hundred thousand dollars—and a multitude who have made smaller sums, ranging from twenty-five thousand to fifty thousand dollars, from their patents. The first thing requisite for an inventor to know is, if his invention is patentable. The best way to obtain this information, is to construct a small model and send it to some reliable and experienced patent solicitor, and ask advice. In this connection we would state that

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