MECHANICAL MOTION.—Nelson Read, Winchendon, Mass.—This invention relates to a new and useful improvement in means for transmitting motion from a rotary driving shaft to two or more rotary counter shafts. The object of the invention is to prevent irregularity of motion hitherto caused in crank connections by the difficulty of the crank in passing the centers of the shafts.

MEDICAL COMPOUND.—Thomas J. Butcher, Wenona Station, Ill.—This invention relates to a new and improved composition for medical purposes.

VENTILATING APPARATUS.—E. L. Roberts, Brooklyn, N. Y.—This invention relates to improvements in ventilating apparatus for buildings, and has for its object to provide a simple and efficient arrangement of passages, heater, and valve devices, which, while governing the volume of air admitted, either to cause it to pass into the room through a cold air passage or through a passage bringing it in contact with a heater, will always admit a full volume of air, thereby keeping up the maximum degree of circulation; the arrangement being such that a movement of a single hand-crank or other valve operating device effects the necessary valve adjustment for causing the air to pass in either direction.

PEDECYCLE.—Geo. Brownlee. Princeton, Ind.—This invention relates to a new device which is to be used for skating on ordinary roads, to be attached to the feet and rolled over the ground. The invention is also applicable to other vehicles, such as velocipedes, and wheelbarrows, and consists chiefly in suspending the weight of the rider or load to be conveyed from the top of the wheel.

EYE GLASSES.—Richard Straubel, Williamsburgh, N. Y.—The object of this invention is to so construct the frame of a pair of eye glasses that the glasses when applied will be in a horizontal line as they are in spectacles, and that when the instrument is folded together, the ends of the U-spring will not project to be caught in the pockets or elsewhere.

LACE MACHINES.—Geo. Osborne, Brooklyn, N. Y.—The object of this invention is to so construct lace machines used for making fine silk or other net work of the kind used for invisible coverings of ladies' chignons and for other purposes, that the operation can with very fine material be successfully carried on.

VELOCIPEDE.—T. N. Morse, Fairhaven, Mass.—This invention relates to certain improvements in two and three-wheeled velocipedes, whereby their construction is simplified and their mode of operation facilitated.

HAY ELEVATING FORK.—T. C. Kelly, West Liberty, Pa.—The object of this invention is to provide a simple and effective hay elevating fork for raising hay by horse or other power.

PORTABLE AND ADJUSTABLE SCAFFOLD.—F. Stein and H. Haering, New York city.—The object of this invention is to so provide portable and adjustable scaffolding to be used in erecting buildings, and conveniently adapted for moving from place to place, and for erection independently of the walls of the building, and whereby the flooring may be adjusted as to hight, by the persons thereon.

VENTILATING CHIMNEYS.—J. J. Pemberton, Oakland, Ill.—The object of this invention is to provide an improved means for ventilating chimneys of fireplaces, grates, etc., by the admission of the external atmosphere there to, to facilitate the draft, to prevent smoking, also to facilitate combustion, and to prevent the cold air from rushing in through doors, windows, and cracks chilling the room.

WAGON BRAKE.—Irvin Willits, Deer Plain, Ill.—This invention is intended to provide a very reliable brake which will always be brought into action when the animals cease to drawn, and hold back sufficiently to allow the traces to slacken. The arrangement of the brake bar is such that it may rest on the ends of the hounds of the axle, when the brakes are resting on the wheels, so that the action of the brake shall cause no pressure upon the necks of the animals.

METALLIC KEGS.—Wm. Hill, Pottsville, Pa.—This invention relates to a new and useful improvement in the manner of putting in the heads of kegs for containing powder and other articles, when the same are made of metal; and it consists in the peculiar form of joint made, and the bearings obtained for securing the contents and making the keg strong and durable.

BOLTS FOR FOLDING DOORS.—E. L. Roberts, Brooklyn, N. Y.—This invention relates to improvements in sliding bolts for folding doors, such as patented March 15, 1859, 23,262, the object of which it to provide for sliding the upper fastening bolt, and the laterally moving guard bolt, whether the lower slide bolt coincide with its mortise so as to fall into it or not, as it frequently happens that it does not on closing the door, owing to working or springing, which in the arrangement described in the aforesaid patent prevents the movement of any of the bolts until the said lower bolt is adjusted to coincide and pass into its notch.

KNITING MACHINES.—M. L. Roberts, New Brunswick, N.J.—This invention consists in a means of adapting them to be capable of knitting plain tubular goods with great rapidity. Also, in an arrangement of means whereby they may be readily adjusted from the conditions of a machine such as represented in a former patent, to the conditions more especially adapted for knitting the said plain tubular goods and from that to the said first mentioned condition.

WATER GAGE.—David Lithgow, Philadelphia, Pa.—This invention relates o a new and useful improvement in water gages for steam boilers and consists in providing means for excluding the steam and heat from the glass gage tube, and thereby protecting the glass tube from damage from expansion and contraction by heat.

APPARATUS FOR THE MANUFACTURE OF BROMINE.—Herman Lerner, Pomeroy, Ohio.—This invention relates to the common apparatus used for the distillation of bromine from the bitter or refuse water left after the manufacture of salt from the saline products of certain earth wells, or from sea water.

CARRIAGE.—John C. Ham, New York city.—This invention has for its object to improve the construction of the front part of the bodies of carriages so as to make them more convenient and comfortable for those riding in them, at the same time that their beauty and elegance are greatly increased.

COFFEE CLEANER AND POLISHER.—James W. Brady, Catonsville, Md.—The object of this invention is to provide for public use a cheap, durable, and conveniently operated instrument, by means of which coffee or other similar article can be easily, quickly, and effectually cleaned and polished.

WINDOW SASH ADJUSTER.—J. S. Elkins, Marquette, Wis.—The object of this invention is to provide for public use a simple, cheap, and convenient device for adjusting and controlling both sashes of a window, setting either or both of them, at the same time, at any required hight, and operating without the use of weights or springs.

STUMP PULLER.—D. C. Frazeur and Peter Ginter, Siddonsburg, Pa.—The object of this invention is to provide for public use a simple, convenient, and effective apparatus for pulling stumps.

CHAIR.—James Lee, New York city.—This invention has for its object to furnish an improved chair, which shall be simple in construction, strong, and durable, and at the same time so constructed and arranged as to fit closely to, and support the lower part of the sitter's back, which chairs constructed in the ordinary manner, leave wholly unsupported.

ORNAMENTAL BACK FOR OPEN FIREPLACES.—William H. Jackson, New York city.—The object of this invention is to construct ornamental back and sides for open fireplaces, which may be inserted in the said fireplaces forming the back of a grate, as may be required, and thus relieve the eye from looking on a blackened soapstone, as now used in handsomely furnished fire-places.

STEAM BOILER.—Charles H. Franklin, Jr., New York city.—The present invention relates to a certain new and useful improvement in the construction of steam boilers by the introduction of a third combustion chamber, the object of which is to consume all the smoke and gases from the furnace, and at the same time give a greater heating surface than has heretofore been given to steam boilers.

BEEHIVE.—Hiram Filson, Monongahela City, Pa.—This invention has for its object to furnish an improved beehive, which shall be so constructed and arranged as to not only adapt it to the natural habits of the bees, but also allow all its parts to be conveniently and successively taken away.

COMBINED DRILL AND SAW GUMMER.—Wm. C. Marr, Peru, Wis.—This invention has for its object to furnish a simple, convenient, and effective machine, which may be readily used as a drill or saw gummer, as occasion may require, doing its work equally well in either capacity.

COMBINED PLOW, CULTIVATOR, AND POTATO DIGGER.—H. B. Smith, Tremont, Ill.—This invention has for its object to furnish an improved combined plow, cultivator, and potato digger, which shall be so constructed and arranged as to be easily adjusted and operated, and which will do its work well in either capacity.

POTATO DIGGER.—John Sherwood, Ottumwa, Iowa.—This invention has for its object to furnish a simple, convenient, and effective potato digger, which shall be so constructed and arranged as to do its work easily and thoroughly, leaving the potatoes spread over the surface of the ground.

IMPROVED ATTACHMENT TO PUMPS.—J. W. Williams, Syracuse, N. Y.—This invention relates to a new and improved attachment, by means of which the lower or stop valve box and valve may easily be removed from any pump, when from its being clogged or out of repair it becomes necessary to do so.

NEEDLE PROTECTOR FOR SEWING MACHINES.—Thomas Huckans, New Baltimore, and J. Wesley Carhart, Troy, N. Y.—This invention relates to a new and improved protector for the needles of sewing machines, whereby the needle is prevented from being broken or injured during the operation of sewing.

CLOTHES RACK.—Elias Werden, Pittsfield, Mass.—This invention relates to a new clothes rack, which is of very simple construction, and which can, when not used, be folded together into a small space. The invention consists in fitting upon four vertical parts connecting rods, which are arranged in sections horizontally above each other, every section being supported by shoulders of the posts.

CLARINET.—Jacob Rebhun, New York city.—The object of this invention is to construct and arrange the keys and levers of a clarinet, that difficult passages which could heretofore not be produced, such as various kinds of trills and shakes, can without difficulty be obtained, and that the fingers will be relieved from the great strain to which they are subjected on the ordinary instruments.

TACHYDROME.—Simon Wortmann, New York city.—This invention relates to a new vehicle, which is to be propelled by the upper and lower extremities of the person or persons th at it supports, and which is provided with a fly wheel, in such manner that the same may at will be thrown into or out of gear. This fly-wheel will gather power in going down hill, and will then give it up in going up hill, thereby facilitating the ascending of hills, and preventing too great rapidity while going down hill. The invention consists in the general combination of parts, whereby two persons may be accommodated on the vehicle, and also in the arrangement of the fly wheel.

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92,926.—HAIR-CURLING APPARATUS.—Marcia Adkins, Oswego, N. Y.
92,927.—GUIDE-ATTACHMENT FOR BORING INSTRUMENTS.—Arthur Amory, New York city.
92,928.—VELOCIPEDE. — Solomon Andrews, Perth Amboy, N. J.
92,929.—CARPET SWEEPER.—J. B. Baker (assignor to himself Hiram R. Olmstead, and Richard W. Jones), Syracuse, N. Y.
92,930.—TOBACCO BOX.—George H. Bliss, Brooklyn, N. Y.
92,931.—GAS HEATER.—A. L. Bogart, New York city.
92,932.—SUGAR-BOILING APPARATUS.—Martial Bonnin and Charles Escudier, New Iberia, La.
92,933.—MANUFACTURE OF BRAID.—John W. Bowers, Newton, Mass.
92,934.—METHOD OF PRESERVING THE AROMATIC PRINCIPLE OF HOPS.—Edwin D. Brainard, Albany, N. Y.
92,935.—MILLERS' STAFF.—Potto Brown, Houghton, and Bateman Brown, Huntingdon, England. Patented in England, June 23, 1868.
92,936.—PEDECYCLE.—George Brownlee, Princeton, Ind.
92,937.—MEDICAL COMPOUND.—Thomas J. Butcher, Wenona Station, Ill.
92,938.—BRAIDING MACHINE.—James D. Butler, Lancaster, Mass.
92,939.—CORN POPPER.—Wm. F. Collier, Worcester, Mass.
92,940.—BOBBIN FOR SPINNING.—John H. Crowell, Providence, R. I. Antedated July 23, 1869.
92,941.—CONDENSER FOR STILLS.—T. J. Dean, St. Louis, Mo.
92,942.—HAND MIRROR.—W. U. Dudley, New York city, assignor to himself and Lawrence W. Clark, Brooklyn, N. Y.
92,943.—MACHINE FOR GENERATING AND CARBURETING GAS.—Cleaveland F. Dunderdale, New York city.
92,944.—STOP-MOTION FOR SILK STRETCHING AND WINDING MACHINE.—P. Dunham, Leeds, Mass.
92,945.—GRAIN DRILL. — Josephus Easterday, Frederick county, Md., and J. B. Crowell, Greencastle, Pa.
92,946.—FODDER CUTTER.—John Eiberweiser (assignor to himself and Frederick Groene), Cincinnati, Ohio.
92,947.—BEEHIVE.—Hiram Filson, Monongahela City, Pa.
92,948.—FRONT GEAR FOR WAGON.—A. Finley, Bainbridge, Ind.
92,949.—SPRING BED.—Jeremiah Fisk, Augusta, Me.
92,950.—SHOES.—Wm. S. Foster, Montgomery, Ala.
92,951.—CORN AND SEED PLANTER.—Daniel D. Franklin (assignor to himself and John S. Underwood), Flora, Ill.
92,952.—STEAM GENERATOR. — Charles H. Franklin, Jr., New York city.
92,953.—THREE-HORSE CLEVIS.—Samuel H. Frederick, Matteson, Mich.
92,954.—HOSE COUPLING.—J. H. George, Newark, N. J.
92,955.—MATCH SAFE.—John Gibbs, Brooklyn, E. D., N. Y., assignor to himself and Calvin H. Carter, Waterbury, Conn.
92,956.—GOVERNOR FOR STEAM AND OTHER ENGINERY.—Thomas Gill, assignor to himself, John Stark, and John Stark, Jr., Waltham, Mass.
92,957.—STEAM PUMPING ENGINE.—Roscoe J. Gould, Newark, N. J.
92,958.—MULE FOR SPINNING.—C. J. Greene, Olneyville, R. I.
92,959.—DEVICE FOR CLEANING PLOWS.—Richard Groom, Albany, N. Y.
92,960.—MACHINE FOR MAKING CORD.—William Guest, London, assignor to James Buckingham, Walworth, England.
92,961.—HEDGE SETTER.—John H. Hobart (assignor to himself, Elias P. Read, and T. W. McFarland), Ottawa, Ill. Antedated July 5, 1869.
92,962.—COMPOUND FOR CUTTING AND POLISHING.—James P Hall, New York city.
92,963.—WHIFFLETREE.—Israel C. Hall, Sanbornton, N. H.
92,964.—CARRIAGE.—John C. Ham, New York city.
92,965.—SEWING MACHINE FOR WORKING BUTTON HOLES.—Alexander Harroun, Jr., Onondaga, Ill.
92,966.—STREET REFLECTOR FOR WINDOWS.—Otto Hennig, Chicago, Ill.
93,967.—CORN POPPER.—Benjamin B. Hill, and John R. Hill Worcester, Mass.
92,968.—GANG PLOW.—Laban Holloway, San Francisco, Cal.
92,969.—SCREW WRENCH.—H. A. House, Bridgeport, Conn.
92,970.—SHUTTER FASTENER. — Leonard D. Howard, St Johnsbury, Vt.
92,971.—GRAIN REGISTER.—Wm. C. Howard, Belle Plaine Iowa.
92,972.—NEEDLE PROTECTOR FOR SEWING MACHINE.—Thos Huckans, New Baltimore, and J. Wesley Carhart, Troy, N. Y.
92,873.—HARNESS BUCKLE.— James Ives, Mount Carmel Conn.
92,974.—ORNAMENTAL BACK FOR FIRE-PLACE.—Wm. H. Jackson, New York city.
92,975.—HORSE HAY FORK.—Thomas C. Kelly, West Liberty, Pa.
92,976.—VELOCIPEDE.—John Lauer, Chicago, Ill.
92,977.—CHAIR.—James Lee, New York city.
92,978.—TURRET FOR VESSELS.—Johan Linnemann, Copenhagen, Denmark.
92,979.—WATER GAGE.—David Lithgow, Philadelphia, Pa.
92,980.—PROBANG, OR INSTRUMENT FOR TREATING DISEASED ORIFICES.—George S. Lovell, and Mary F. Lovell, Philadelphia, Pa.
92,981.—METHOD OF EXTRACTING IRON AND OTHER OXIDES FROM CLAY, PORCELAIN-EARTH, ETC.—Wm. John Lynd, Golden City Colorado Ter.
92,982.—CLOTHES DRYER.—Henry G. Mack, Oswego, N. Y.
92,983.—COMBINED DRILL AND SAW GUMMER.—Wm. C. Marr, Peru, Wis.
92,984.—CORN PLANTER.—Daniel McCullough, Oxford township, Ontario, Canada, assignor to himself, Wm. J. Scott, Jr., and Patrick Harty.
92,985.—PLASTERING MACHINE.—Thomas McKinley, New York city.
92,986.—CARD CASE.—Geo. V. Metzel, Baltimore, Md.
92,987.—COFFEE POT.—Elie Moneuse and Louis Duparquet, New York city.
92,988.—FILTERING TUBE.—Daniel Moore and Edwin Moore, Brooklyn, N. Y.
92,989.—HAY AND MANURE FORK.—Edwin Moore, Brooklyn, E. D., N. Y.
92,990.—THROTTLE VALVE GEAR.—Samuel Moore, Providence, R. I.
92,991.—VELOCIPEDE.—T. N. Morse, Fairhaven, Mass.
92,992.—PLOW.—Wilson Noble, New Haven, Conn. Antedated July 3, 1869.
92,993.—COMPOSITION FOR CURING CORNS.—Geo. Oakley, Quincy, Ill.
92,994.—NAIL MACHINE.—Geo. Osborn (assignor to himself, Fred'k Leonard, and J. C. Osborn), Lakeville, Mass.
92,995.—LACE-MAKING MACHINE.—Geo Osborn Brooklyn, N. Y., assignor to A. G. Jennings, New York city.
92,996.—GUIDE FOR GANG SAW GATES.—R. A. Parsons (assignor to himself and Ten Brock & Noyes), Clinton, Iowa.
92,997.—COTTON-SEED HULLER.—George H. Peabody, New York city.
92,998.—ZINCING IRON.—J. H. Peake, Washington, D. C.
92,999.—VENTILATOR FOR CHIMNEY.—J. J. Pemberton, Oakland, Ill.
93,000.—SCRAPER.—T. G. Phelps, Belmont, Cal.
93,001.—PITCHER FOR COOLING LIQUID.—Herman Pietsch, New York city.
93,002.—FINISHING SPLIT LEATHER. — Joel Putnam, Danvers, Mass.
93,003.—MOLD FOR CASTING THE CYLINDER AND DIAL BOX OF WATER METERS.—H. F. Read, Brooklyn, N. Y.
93,004.—MECHANICAL MOVEMENT.—Nelson Read, Winchendon, Mass.
93,005.—CLARINET.—Jacob Rebhun, New York city.
93,006.—BOLT.—E. L. Roberts, Brooklyn, N. Y.
93,007.—VENTILATING APPARATUS.—E. L. Roberts, Brooklyn, N. Y.
93,008.—KNITTING MACHINE.—Mark L. Roberts, New Brunswick, N. J.
93,009.—BEEHIVE.—G. A. Robinson, Mount Pulaski, Ill.
93,010.—GUIDE FOR SEWING MACHINES.—Anna P. Rogers, Quincy, Ill.
93,011.—ADJUSTABLE MOLDBOARD AND COULTER.—G. D. Rowell, Menomonee Falls, Wis.
93,012.—METHOD OF MANUFACTURING VINEGAR.—Francis Schleifer, San Francisco, Cal., assignor to himself and Francis Cutting. Antedated July 16, 1869.
93,013.—HARVESTER.—W. A. Sharpe, Syracuse, N. Y. Antedated July 16, 1869.
93,014.—STOP FOR PREVENTING RETROGRADE MOTION IN SEWING MACHINES.—Wesley Sherman and Giles Bishop, Middletown, Conn.
93,015.—POTATO DIGGER.—John Sherwood, Ottumwa, Iowa.
93,016.—VELOCIPEDE.—D. R. Smith, San Francisco, Cal., assignor to himself and Norbert Landry.
93,017.—CULTIVATOR.—Walter Smith, Boonville, Ind.
93,018.—COMPOSITION FOR PAVEMENTS, ROOFING, ETC.—Hiram Staples (assignor to himself and E. M. Dudley), Nashua, N. H.
93,019.—ADJUSTABLE SCAFFOLD.—Francis Stein and Henry Haering, New York city.
93,020.—EYE GLASS.—Richard Straubel, Williamsburgh, N. Y.
93,021.—STEAM GENERATOR FEED DEVICE.—J. B. Tarr, Fairhaven, Mass. Antedated July 12, 1869.
93,022.—TOY HOOP.—C. L. Taylor, Norwich, Conn.
93,023.—BREECH-LOADING FIRE-ARM.—G. H. Todd (assignor to himself and C. W. Kennedy), Montgomery, Ala.
93,024.—FOUNTAIN PEN.—W. R. Walker, Concord, N. H.
93,025.—CLOTHES RACK.—Elias Werden, Pittsfield, Mass.
93,026.—SLIDING CALLIPER.—A. E. Whitmore, Boston, Mass.
93,027.—GATE.—Maximilian S. G. Wilde, Somerville, assignor to himself and J. H. Noble, Pittsfield, Mass. Antedated July 15, 1869.
93,028.—WAGON BRAKE.—Irvin Willits, Deer Plain, Ill.
93,029.—DETACHABLE FOOT VALVE AND SEAT FOR PUMPS.—J. W. Williams, Syracuse, N. Y.
93,030.—VELOCIPEDE.—Simon Wortmann, New York city.
93,031.—GRINDING EDGE TOOLS.—Lorenzo Zimmerman, Waukeshma, Mich.
93,032.—APPENDAGE TO BLAST PIPES OF BLAST FURNACES.—J. L. Agnew, Negaunee, Mich.
93,033.—BROOM HEAD.—J. M. Allison, Salina, Pa.
93,034.—SAW-HORSE.—J. B. Andrews, Bridgeton Center, Me.
93,035.—GRAIN BINDER.—John Baker, Fairbury, Ill.
93,036.—PLOW.—John Ball, Canton, Ohio.
93,037.—WATER WHEEL.—S. H. Barnes, Lanesborough, Pa.
93,038.—COMBINED HARROW AND MARKER.—B. F. Barney Pontiac, Ill.
93,039.—TOOL FOR FORMING LIPS ON THE NECKS OF BOTTLES.—Thomas Barrett, Charlestown, Mass.
93,040.—DEVICE FOR SUSPENDING PICTURE FRAMES AND MIRRORS.—R. E. Bean, Franklin, N. H.
93,041.—DUMPING WAGON.—Udney N. Beardsley, Lawton, Mich.
93,042.—CULTIVATOR AND HARROW COMBINED.—Hiram Benedict (assignor to himself and Allen Chaney), Detroit, Mich. Antedated July 16, 1869.
93,043.—SAWING MACHINE.—G. W. Benson and F. F. Doland, Sacramento, Cal.
93,044.—COMPOUND FOR DESTROYING INSECTS. — Benjamin Best, Dayton, Ohio.
93,045.—COFFEE CLEANER AND POLISHER.—J. W. Brady, Catonsville, assignor to M. W. Brady, Baltimore, Md.

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. SLUICE 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. Gill, 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 KEGS.—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. Klingenmeier (assignor to John H. Miller), Buffalo, N. Y.
93,096.—SPRING-BED BOTTOM.—Alois Kneppler, 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 Laflin, 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 DIES.—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, Oxton, 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 Strollum, 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. Talbott, 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 Trageser, 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.—BREECH-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. Wills), Peoria, Ill.
93,151.—RAILWAY CAR AXLE-BEARING.—W. E. Wilcox, Peoria, and T. H. Wills 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.

33,068.—VENTILATING CAP FOR TENTS.—Dated August 20, 1861; reissue 3,565.—Thomas Boyd, Boston, Mass.
59,951.—SAW.—Dated Nov. 27, 1 66; 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. Kirchhof, 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, 1855.

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 cyclopedia 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, en 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 do 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 redissolvable alkaline liquids; 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, aluminum, and chromium, together with certain salts which require an acid solvent; class fifth, those precipitated as sulphides insoluble in alkaline fluids; 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, 389 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.

2,024.—WATER METER.—Pratt, Whitney and Co., Hartford, Conn. July 5 1869.

1,557.—STOP COCK.—Z. E. Coffin, Newton Center, Mass. May 29, 1869.

1,985.—BREECH-LOADING FIREARM.—R. E. Stephens, Owensound, and Jas. Ferrier and G. D. Ferrier, Montreal, Canada. July 1, 1869.

2,006.—LIQUID METER.—J. P. Smith, Cleveland, Ohio. July 2, 1869.

2,009.—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.

2,026.—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.—CHANDELIER.—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.