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For sale—100-horse beam engine. Also, milling and edging machines. E. Whitney, New Haven, Conn.

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Prang's American chromos for sale at all respectable art stores. Catalogues mailed free by L. Prang & Co., Boston.

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Official List of Patents.

Issued by the United States Patent Office.

FOR THE WEEK ENDING JANUARY 12., 1869.

Reported Officially for the Scientific American.

SCHEDULE OF PATENT OFFICE FEES:

On filing each caveat\$10
On filing each application for a Patent (seventeen years)\$35
On issuing each original Patent\$20
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On granting the Extension\$50
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In addition to which there are some small revenue-stamp taxes. Residents of Canada and Nova Scotia pay \$500 on application.	

Patents and Patent Claims.—The number of patents issued weekly having become so great, with a probability of a continual increase, has decided us to publish, in future, other and more interesting matter in place of the Claims. The Claims have occupied from three to four pages a week, and are believed to be of interest to only a comparative few of our readers. The publication of the names of patentees, and title of their inventions, will be continued; and, also, as heretofore, a brief description of the most important inventions. We have made such arrangements that we are not only prepared to furnish copies of Claims, but full Specifications at the annexed prices:

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Official Copies of Drawings of any patent issued since 1836, we can supply at a reasonable cost, the price depending upon the amount of labor involved and the number of views.	
Full information, as to price of drawings, in each case, may be had by addressing	
MUNN & CO.,	
Patent Solicitors, No. 37 Park Row, New York.	

85,721.—CORN PLANTER.—F. J. Ashburn, West Union, W. Va.

85,722.—HARVESTER.—John Barnes, Rockford, Ill.

85,723.—HARVESTER RAKE.—John Barnes, Rockford, Ill.

85,724.—WATER WHEEL.—Robert Bing, May's Landing, N. J.

85,725.—FLAX BOLL BRAKE.—B. S. Burgan, Congress, Ohio.

85,726.—MILL FOR GRINDING SUMAC.—Remington G. Chase, Alexandria, Va.

85,727.—TOY HOOP.—Samuel E. Cleveland, Buffalo, N. Y.

85,728.—BUT HINGE.—Calvin Cole, Ithaca, N. Y.

85,729.—DOOR TIGHTENER AND FASTENER.—Dennis Conlon, Portland, Me.

85,730.—TORPEDO FOR OIL WELLS.—Frederick Crocker, Titusville, Pa.

85,731.—REVOLVING BENCH FOR TINNERS.—William Culveyhouse, Ligonier, Ind.

85,732.—DEVICE FOR TURNING STREET CARS.—Benjamin I. Day, Vanderburg county, Ind.

85,733.—HORSE HAY FORK.—W. E. Derrick, Jordan, N. Y.

85,734.—GRAPPLERS FOR SUSPENDING HORSE HAY FORKS.—William E. Derrick, Jordan, N. Y.

85,735.—STONE AND STUMP-RAISING MACHINE.—Harvey Fleming, Vienna, N. J.

85,736.—CULTIVATOR.—Isaiah B. Gilbert, Lewisville, Ind.

85,737.—MACHINE FOR TRIMMING AND DRESSING MILL-STONES.—James T. Gilmore, Painesville, Ohio.

85,738.—PICTURE HOOK.—Wilmer D. Gridley, New Britain, Conn.

85,739.—HORSE HAY FORK.—Levi Haverstick (assignor to himself and Abraham W. Shuman), Manor township, Pa. Antedated December 26, 1868.

85,740.—GAGE FOR CIRCULAR SAWS.—Oliver A. Horn and William P. Horn, Addison, N. Y. Antedated January 2, 1869.

85,741.—EARTH-BORING INSTRUMENT.—W. T. Huntington, Washington, D. C.

85,742.—METHOD OF UNITING SHEET METAL PLATES.—Joseph Le Comte, Brooklyn, N. Y.

85,743.—MANUFACTURE OF YEAST CAKES.—Benjamin F. Lee, Sankusky City, Ohio.

85,744.—VAGINAL INJECTION PIPE FOR SYRINGES.—Thomas Lewis, Malden, Mass.

85,745.—CAST IRON CAR WHEEL.—George G. Lobdell, Wilmington, Del.

85,746.—PLOW.—David A. Manuel, Napa City, Cal.

85,747.—HORSE COLLAR.—C. K. Marshall, New Orleans, La. Antedated January 2, 1869.

85,748.—HEEL FOR BOOTS AND SHOES.—George W. Martin, Boston, Mass. Antedated January 6, 1869.

85,749.—METHOD OF SECURING RUBBER RINGS OR DISKS TO THE DOORS OF VANS, ETC.—Charles H. Mellor, Philadelphia, Pa.

85,750.—SELF-EXTINGUISHING RAILROAD CAR STOVE.—John Minor, Peoria, Ill.

85,751.—CURTAIN FIXTURE.—James A. Morrison (assignor to John H. Morris and William F. Hood), Pittsburgh, Pa.

85,752.—MORTISING MACHINE.—Peter A. Mowers, Cleversburg, Pa. Antedated January 2, 1869.

85,753.—REVERSIBLE LATCH.—W. T. Munger, Branford, assignor to P. and F. Corbin, New Britain, Conn.

85,754.—REVERSIBLE LATCH.—W. T. Munger, Branford, assignor to P. and F. Corbin, New Britain, Conn.

85,755.—GATE.—Michael Neugent, Hartland, Mich.

85,756.—CLOTHES HOOK.—O. A. North, New Britain, Conn.

85,757.—HORSE RAKE.—Sherman R. Nye, Barre, assignor to himself and Andrew B. Barnard, Worcester, Mass.

85,758.—RAILWAY FROG.—Sidney Parke, Chicago, Ill.

85,759.—DOOR BELL.—Chester Penfield, New Britain, Conn.

85,760.—ALARM BELL.—Chester Penfield, New Britain, Conn.

85,761.—MEDICAL COMPOUND.—Jonathan Penoyer, Massillon, Ohio.

85,762.—MACHINE FOR MIXING PAINTS AND CHEMICALS.—Robert Poole, Baltimore, Md.

85,763.—GOVERNOR FOR STEAM ENGINES.—George T. Pracy, San Francisco, Cal.

85,764.—CIGAR MAKERS' MOLD.—John Prentice, New York city.

85,765.—KNITTING MACHINE.—Jacob D. Reiff, Skippackville, Pa.

85,766.—MANUFACTURE OF STONE WARE FOR THE USE OF CHEMISTS AND OTHERS.—Richard C. Remmey, Philadelphia, Pa.

85,767.—CAR COUPLING.—Adam C. Ritz, Elizabethtown, assignor to himself and John B. Carter, Hartsville, Ind.

85,768.—SULKY PLOW.—John Root, Hartland, N. Y.

85,769.—THRESHING MACHINE.—John U. Shingluff, Eagleville, Pa. Antedated December 30, 1868.

85,770.—SAW FOR SAW TEETH.—Joseph Sperrey (assignor to Henry Disston), Philadelphia, Pa.

85,771.—SNAFT TUG.—John E. Stuber, Turin, N. Y.

85,772.—SHUTTER HINGE AND KNOB.—John W. Tripp, Gallopolis, Ohio.

85,773.—DEVICE FOR SECURING FASTENING LOOPS TO NECK TIES.—Benjamin F. Weishampel, Baltimore, Md.

85,774.—HOT AIR FURNACE.—John W. Wentworth, Minneapolis, Minn.

85,775.—MACHINE FOR MAKING CRUCIBLES.—Joseph Winkle, Pittsburgh, Pa.

85,776.—DOOR LOCK.—Hermann Ahrend, New York city.

85,777.—SCAFFOLD.—John Anderson, Abel O. Smith, and Isaac C. Wallace, Louisville, Mich.

85,778.—WATER ELEVATOR.—M. Atherton, Friendsville, Ill.

85,779.—GOVERNOR FOR MARINE AND OTHER ENGINES.—Jeanrum Atkins, Washington, D. C.

85,780.—ANIMAL TRAP.—Samuel Ayles, Worcester, Mass.

85,781.—VESSEL FOR THE FORMATION OF ICE.—Benjamin T. Babbitt, New York city.

85,782.—GRAIN CONVEYOR.—David L. Bartlett, Rockford, Ill.

85,783.—BALING PRESS.—J. Berkeley, Washington, Texas.

85,784.—HARNESS COCK EYE.—S. D. Bingham, Maumee City, Ohio.

85,785.—SLED BRAKE.—Simeon R. Bolton and Francis Hoyt, Prescott, Wis.

85,786.—WOODEN PAVEMENT.—John W. Brocklebank and Charles Trainer, New York city.

85,787.—UNIVERSAL GLOBE JOINT.—Josiah Bruno, Jr., Lansing, Mich.

85,788.—TOY BLOW GUN.—T. Clifford Bush (assignor to himself, Henry P. Ostram, and T. B. Carpenter), New Haven, Conn.

85,789.—PROPELLING APPARATUS.—S. D. Carpenter, Madison, Wis.

85,790.—COMPOSITION FOR MAKING SELF-CEMENTING BANDS.—Elijah M. Carrington, New York city, assignor to Edmund I. Wade, trustee, and said trustee assigns to the Patent Self-Cementing Band Company.

85,791.—EVAPORATING APPARATUS.—Elijah Chitister, Chatham, Iowa.

85,792.—STEAM SAFETY VALVE.—Gilbert H. Clemens, New York city.

85,793.—RAILROAD CAR AXLE BOX.—John C. Creed, Omaha City, Nebraska.

85,794.—BOLT-FASTENING FOR RAIL TIES.—Charles H. Crosby, Boston, Mass., assignor to himself, John Ross, and C. A. Trowbridge.

85,795.—MOUTH PIECE FOR SMOKING PIPES.—J. P. Courtney and William H. Kelagher, Brooklyn, N. Y., assignors to J. P. Courtney.

85,796.—METHOD OF PRODUCING WHITE PIGMENTS FROM LEAD.—John Gallemore Dale and Edward Milner, Warrington, England.

85,797.—METHOD OF TEMPERING STEEL.—Geo. Davis, Elizabethport, N. J.

85,798.—HARNESS BUCKLE.—E. S. Dawson, Syracuse, N. Y.

85,799.—DOOR KNOB, ETC.—Edwin Day, Chicago, Ill.

85,800.—VENEER PRESS.—D. Decker, New York city.

85,801.—GRAIN SEPARATOR.—James A. Denton, David W. Shannon, and Elijah Lucas, Winslow, Ind.

85,802.—CENTRIFUGAL PUMP.—H. A. Duc, Jr., Charleston, S. C.

85,803.—COMBINED SAFETY ATTACHMENT AND BRAKE FOR CARRIAGES.—Claude Ducreux, New York city.

85,804.—GAS HEATER.—Laurence A. Duval and Wilfrid C. Duval, Charleston, S. C.

85,805.—PADLOCK.—Louise Eiffler, New York city, administratrix of the estate of Charles Hermann Eiffler, deceased.

85,806.—METALLIC ROOFING.—Levi S. Enos, Chicago, Ill.

85,807.—LUNCH BOX.—John Erpelting, Chicago, Ill.

85,808.—HAY AND COTTON PRESS.—Elias Evans, Montgomery, Ala.

85,809.—OVEN DOOR.—C. H. Finn, Syracuse, N. Y.

85,810.—SPILL FOR REFINING AND DISTILLING OILS.—Samuel Gibbons, Binghamton, N. Y., assignor to Excelsior Oil Manufacturing Company.

85,811.—SECTIONAL BUREAU.—Elias Gill, New York city.

85,812.—CULTIVATOR.—J. G. B. Gill, Chester Court House, S. C.

85,813.—BURNING KILN.—James Green, St. Louis, Mo.

85,814.—STONE PAVEMENT.—Charles Guidet, New York city.

85,815.—SWIVEL MIRROR FRAME.—Christian W. Hafermalz, Providence, R. I.

85,816.—WEIGHING SCALE.—S. S. Hamilton, Taylor's Falls, Minn.

85,817.—STEAM ENGINE CUT OFF.—Thomas Hansbrow, deceased (Lucy A. Hansbrow and B. B. Redding, executors), Sacramento, Cal.

85,818.—WINDOW BLIND.—Jones Harding, Galesburg, Ill.

85,819.—GRINDSTONE JOURNAL BOX.—James L. Haven, Cincinnati, Ohio.

85,820.—TRACE FASTENING.—S. C. Hawkins, Patchogue, N. Y.

85,821.—WASHING MACHINE.—Levi Hermance, Hudson, N. Y.

85,822.—BALING PRESS.—D. H. Hill, Union Springs, Ala.

85,823.—WAD GREASING APPARATUS.—A. C. Hobbs, Bridgeport, Conn.

85,824.—GRAIN DRILL.—P. F. Hodges, St. Paul, Minn.

85,825.—COMPOUND FOR PAINT AND ARTIFICIAL STONE.—Thomas Hodson, Brooklyn, N. Y.

85,826.—COMBINED CORN PLANTER AND CULTIVATOR.—John W. Hollaman, Maple Grove, Ill.

85,827.—COVER FOR KETTLES.—Varick R. Holmes, Grand Rapids, Mich.

85,828.—CORN HARVESTER.—Nicholas Hosper, Pella, and Morris Sellers, Keokuk, Iowa.

85,829.—MECHANISM FOR TRANSFERRING FREIGHT.—John H. James, Jr., Urbana, Ohio.

85,830.—CHAIN BELT.—Wm. N. Julian and Morris Kidnocker, Tarlton, Ohio.

85,831.—HAY DERRICK.—G. E. Johnston, Bloomington, Ill.

85,832.—CATTLE PUMP.—D. J. Keller, Kane, Ill.

85,833.—POTATO DIGGER.—Seth Kinman, Eureka, Cal.

85,834.—GOBLET.—Thomas Leach (assignor to Reed and Barton), Taunton, Mass.

85,835.—CHAIR AND STEP LADDER.—Andrew Madison, Paterson, N. J.

85,836.—EXTENSION TABLE.—G. S. Manning, Danville, Ill.

85,837.—MILK PAIL.—Hammond Marshall, Atlanta, Ga.

85,838.—GANG PLOW.—Wm. Mason, Independence, Oregon.

85,839.—GATE LATCH.—J. A. Martin, Strasburg, Pa.

85,840.—HORSE HAY FORK.—Solomon S. Mattis, Curtin, Pa. Antedated January 2, 1869.

85,841.—LAND ROLLER.—Neal S. McLay, Olathe, Kansas.

85,842.—CURTAIN FIXTURE.—Benjamin Moser, Brooklyn, N. Y.

85,843.—MANUFACTURE OF CURVED ELBOWS.—Frederick G. Niedringhaus and W. F. Niedringhaus, St. Louis, Mo.

85,844.—HAY FORK GRAPPLE.—John K. O'Neil, Kingston, and J. F. Thomas, Herkimer county, N. Y., assignors to John K. O'Neil.

85,845.—CURTAIN FIXTURE.—Patrick O'Thayne (assignor to himself and D. W. Canfield), New York city.

85,846.—CURTAIN FIXTURE.—Patrick O'Thayne and David W. Canfield, New York city.

85,847.—STALK CUTTER.—R. B. Parks and J. R. Parks, Neponset, Ill.

85,848.—BURGLAR ALARM.—M. Pierson and M. D. Manville, Adams, N. Y.

85,849.—CARTRIDGE BOX.—J. I. Pittman, New York city.

85,850.—BENCH PIN.—T. J. W. Porter, Grand Rapids, Mich.

85,851.—PLOW.—Samuel Prentiss and George Flint, De Soto, Mo.

85,852.—FENCE.—J. J. Reicherts, Delaware, Ohio.

85,853.—CARRIAGE TOP.—Lewis Righter, Salem, Ohio. Antedated January 2, 1869.

85,854.—SEED PLANTER.—John S. Robb and Samuel P. Allison, Cumberland, W. Va.

85,855.—COMPOSITION FOR THE CURE OF HOG CHOLERA.—W. B. Robuck, Oxford, Mass.

85,856.—TUCK GREASING ATTACHMENT FOR SEWING MACHINES.—Anna P. Rogers, Quincy, Ill.

85,857.—WRINGER.—Moses Romans, Fond Du Lac, Wis.

85,858.—HAY SPREADER.—G. T. Savary, Byfield, Mass.

85,859.—STAVE JOINTER.—Jas. F. Sayer, Macomb, N. Y.

85,860.—BLEACHING PROCESS.—Bruno Schmidt, N. Y. city.

85,861.—PRUNING INSTRUMENT.—Jeremiah Schroy, Fortville, Ind. Antedated January 2, 1869.

85,862.—CULTIVATOR.—Cyrus Schwanger, Mount Joy township, Pa.

85,863.—SASH HOLDER.—W. H. Sible, Harrisburg, Pa.

85,864.—COMPOUND LEVER.—John Simpson, Marietta, Ga.

85,865.—THRESHING KNIFE.—Henry Spaulding, Fletcher, Vt.

85,866.—BED-BOTTOM.—Otis W. Stanford, Lebanon, Ohio.

85,867.—BLIND FASTENER.—Simon F. Stanton, Manchester, assignor to himself and J. M. Stanton, Alexandria, N. H.

85,868.—STEAM WATER ELEVATOR.—C. L. Stevens and Albert A. Denton, Galesburg, Ill.

85,869.—HORSE RAKE.—Wm. Stinson, Coolspring township, Pa.

85,870.—HARVESTER RAKE.—Ole O. Storle, Norway, Wis.

85,871.—CEMENT ROOFING.—Wm. M. Stuart, and A. J. Chapman, St. Clair, Mich.

85,872.—HORSE RAKE.—Eli Sweet, Triangle, N. Y., assignor to George T. Guier.

85,873.—TOY CART.—A. L. Taylor, Springfield, Vt.

85,874.—TOY BOW-GUN.—Howard Tilden, Boston, Mass.

85,875.—BLEACHING IVORY, BONE, ETC.—D. K. Tuttle, New York city.

85,876.—HINGE STOP.—M. Umstadter, Norfolk, Va.

85,877.—HYDROCARBON-BURNER.—Louis Verstraet, Paris, France.

85,878.—BEE-HIVE.—Theron Webb, Buca, Ill.

85,879.—HYDRANT.—Louis W. Werner, St. Louis, Mo.

85,880.—CLOVER HARVESTER.—Jacob Westhafer, Quincy, O.

85,881.—FURNACE FOR ROASTING AND CALCINING ORES.—Ernst Westman, Stockholm, Sweden.

85,882.—IRON FARM GATE.—W. F. Whitney, Milwaukee, Wis.

85,883.—WOOD SEAT FOR CHAIRS.—Geo. C. Winchester, Ashburnham, Mass.

85,884.—BEE-HIVE.—John Wood, Alert, Ohio.

85,885.—BEE-HIVE.—A. T. Wright, New Vienna, Ohio. Antedated January 5, 1869.

85,886.—FARM GATE.—Geo. Yeomans, Romulus, Mich.

85,887.—HARVESTER.—G. W. N. Yost, Corry, Pa., assignor to the Corry Machine Company.

85,888.—TAMPING PLUG.—Hosea Ball, New York city.

85,889.—TREBLE ATTACHMENT FOR PIANOFORTE.—A. V. T. Barberie, Brooklyn, E. D. N. Y.

85,890.—PISTON ROD PACKING.—O. H. Jewell, Chicago, Ill.

85,891.—MACHINE-MADE STITCH.—T. K. Reed, East Bridge-water, Mass.

REISSUES.

80,897.—SAFETY BRIDLE.—Dated August 11, 1868; reissue 3,263.—G. W. Barnes, Mount Vernon, N. Y.

81,339.—SELF-CEMENTING BAND FOR HOLDING BANK NOTES, PAPERS, ETC.—Dated August 25, 1868; reissue 3,260.—Elijah M. Carrington, New York city.

59,395.—HAND STAMP.—Dated Nov. 6, 1866; reissue 2,836, dated January 14, 1868; reissue 3,261.—B. B. Hill, Chicago, Mass.

78,989.—QUILTING FRAME.—Dated June 16, 1868; reissue 3,262.—Peter H. Mellon, St. Louis, Mo.

74,593.—VALVE FOR STEAM-ENGINES.—Dated Feb. 18, 1868; reissue 3,263.—Jos. Reichmann, Dubuque, Iowa.

43,423.—CHURN.—Dated July 5, 1864; reissue 3,264.—Robert Murphy, Jasper, N. Y.

41,788.—REGENERATOR FURNACE FOR METALLURGISTS AND OTHERS.—Dated March 1, 1864; reissue 3,265.—C. W. Siemens and Fred. Siemens, Westminster, England.

52,120.—ROASTING AND SMELTING METALLIC ORES IN VACUO.—Dated January 28, 1866; reissue 3,266.—The First National Ore Smelting and Desulphurizing Company, New York city, assignees of John Absterham.

DESIGNS.

3,334.—FLOOR-CLOTH PATTERN.—Hugh Christie, Morrisania, N. Y.

3,335.—WATER-CLOSET RECEIVER.—Joel Hayden, Jr., Haydensville, Mass.

3,336.—CLOCK CASE.—Geo. R. Holbrook (assignor to Phelps, Dodge, and Company), Ansonia, Conn.

3,337.—CLOCK BELL STAND.—G. B. Owen, Winsted, Conn.

3,338.—FACE PLATE OF A SASH-PULLEY.—Emery Parker (assignor to Russel and Erwin Manufacturing Company), New Britain, Ct.

3,339.—TEA SERVICE.—Wm. Parkin (assignor to Reed and Barton), Taunton, Mass.

3,340.—BUTTER-VASE OR COOLER.—Wm. Parkin (assignor to Reed and Barton), Taunton, Mass.

3,341.—CARPET PATTERN.—W. H. Shelmerdine (assignor to Shelmerdine and Aitken), Philadelphia, Pa.

EXTENSIONS.

DRY DOCK.—J. E. Simpson, of Brooklyn, N. Y.—Letters Patent No. 12,034, dated Dec. 5, 1854.

CIRCULAR KNITTING MACHINES.—John Pepper, of Gilford, N. H.—Letters Patent No. 12,046, dated Dec. 5, 1854; reissue No. 1,355, dated Oct. 27, 1858.

CLOCK CASE.—Elias Ingraham, of Hartford, Conn.—Letters Patent No. 139, dated Dec. 3, 1861.

SEATS FOR PUBLIC BUILDINGS.—Aaron H. Allen, of Boston, Mass.—Letters Patent No. 12,017, dated Dec. 5, 1854; reissue No. 21, dated Jan. 15, 1861.

GRAIN AND GRASS HARVESTER.—Cyrenus Wheeler, Jr., of Auburn, N. Y.—Letters Patent No. 12,044, dated Dec. 5, 1854; reissue No. 875, dated January 3, 1860.

HARVESTER.—Cyrenus Wheeler, Jr., of Auburn, N. Y.—Letters Patent No. 12,044, dated Dec. 5, 1854; reissue No. 875, dated January 3, 1860.

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THROTTLES FOR SPINNING COTTON.—Charles Danforth, of Paterson, N. J.—Letters Patent No. 12,055, dated December 12, 1854.

HANGING CARRIAGE BODIES.—B. F. Brown, of Dorchester, Mass.—Letters Patent No. 12,051, dated December 12, 1854.

MACHINES FOR SCRAPING MEALS.—Jeremiah Stever, of Bristol, Conn.—Letters Patent No. 12,076, dated December 12, 1854.

PROCESSES FOR TREATING THE MOTHER-WATER OF SALINES.—Philippine S. Braekenridge, of Natrona, Pa., administrator of Edward Steien, deceased.—Letters Patent No. 12,077, dated December 12, 1854.

RATTAN MACHINE.—Sylvanus Sawyer, of Fitchburg, Mass.—Letters Patent No. 12,073, dated December 12, 1854.

MAKING NUTS.—Martin P. M. Cassidy, of Nemaha county, Kansas, administrator of Isaac H. Steer, deceased.—Letters Patent No. 13,113, dated June 19, 1855; ante-dated December 15, 1854.

MACHINE FOR SPLITTING RATTANS INTO STRIPS.—Sylvanus Sawyer, of Fitchburg, Mass.—Letters Patent No. 12,141, dated January 2, 1855.

MACHINERY FOR CUTTING RATTAN, ETC.—An act for the relief of Sylvanus Sawyer, of Fitchburg, Mass.—Letters Patent No. 8,173, dated June 24, 1851.

SAWING MACHINE.—Lysander Wright, of Newark, N. J.—Letters Patent No. 12,176, dated January 2, 1855.

this extended experience of nearly a quarter of a century, they have examined not less than fifty thousand alleged new inventions, and have prosecuted upward of thirty thousand applications for patents, and, in addition to this, they have made at the Patent Office over twenty thousand Preliminary Examinations into the novelty of inventions, with a careful report on the same.

This wide experience has not been confined to any single class of inventions, but has embraced the whole range of classification, such as Steam and Air Engines, Sewing Machines, Looms and Spinning Machinery, Textile Manufactures, Agriculture and Agricultural Implements, Builders' Hardware, Calorifics, Carriages, Chemical Processes, Civil Engineering, Brick Making, Compositions, Felting and Hat Making, Fine Arts, Fire-arms, Glass Manufacture, Grinding Mills, Harvesters, Household Furniture, Hydraulics and Pneumatics, Illumination, Leather Manufactures, Mechanical Engineering, Metallurgy, Metal Working, Navigation, Paper Making, Philosophical Instruments, Presses, Printing and Stationery, Railroads and Cars, Sports, Games, and Toys, Stone Working, Surgical Apparatus, Wearing Apparel, Wood Working.

MUNN & Co. deem it safe to say that nearly one-third of the whole number of applications made for patents during the past fifteen years has passed through their Agency.

CONSULTATIONS AND OPINIONS FREE.

Those who have made inventions and desire to consult with us are cordially invited to do so. We shall be happy to see them in person, at our office, or to advise them by letter. In all cases they may expect from us an honest opinion. For such consultation, opinion, and advice, we make no charge. A pen-and-ink sketch and a description of the invention should be sent. Write plainly, do not use pencil or pale ink.

If a SPECIAL SEARCH at the Patent Office is required, which embraces a personal examination of all patented inventions and a report in writing, a fee of \$5 is charged. This examination is only advised in doubtful cases.

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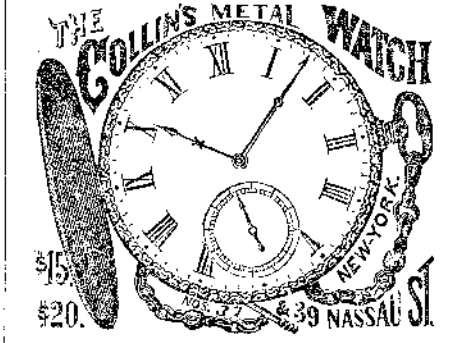
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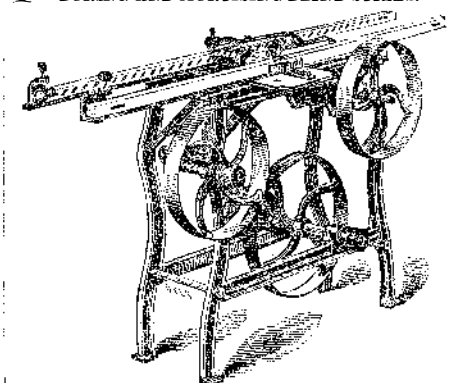
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