97,179.—Churn.—E. R. Embry, Richmond, Ky

97,180.—LINIMENT.—E. C. Evens, Forrest Hill, Ind. 97,181.—DINNER PAIL.—J. O. Fairbairn, Milwaukee, Wis 97,182.—Mode of Recovering the Spent Acid From Oil Refineries.—L. S. Fales, New York city, assignor to the American Fertilizer Company.

97,183.—DITCHER AND GRADER.—E. L. Foreman (assignor to Edward Foreman), Rantoul, Ill. Antenated Nov. 15, 1869.
97,184.—VEGETABLE CUTTER.—Warren Gale, Peekskill, N. Y.

97,184.—VEGETABLE CUTTER.—Warren Gale, Peekskill, N. Y.
97,185.—PRINTING PRESS.—Merritt Gally (assignor to A. P.
Carpenter), Rechester, N. Y.
97,186.—INDICATOR FOR MAIN-SPRING OF WATCHES.—Joseph Gardner, Jr., Baston, Mass.
97,187.—LOOSE GRAIN FORK.—Hiram Gary, Croton, N. J.
97,188.—MOLDING MACHINE.—A. S. Gear, New Haven, Conn.
97,189.—I'ADICATOR FOR WADDING.—W. W. Glentworth,
Philadelphia, Pa., and W. H. Gandey, Lambertville, N. J.
97,190.—MACHINE FOR NAILING SHOE-SOLES WITH WIRE.—
Louis Goodul (assignor to Elmer Townsend), Boston, Mass.
97,191.—MACHINE FOR NAILING SHOE-SOLES WITH WIRE.—
Louis Goodul (assignor to Elmer Townsend), Boston, Mass.
97,192.—MACHINE FOR NAILING SHOE-SOLES WITH WIRE.—
Louis Goodul (assignor to Elmer Townsend), Boston, Mass.
97,193.—ANIMAL POWER.—J. B. Hall, Cheshire, N. Y.
97,194.—SHUTTER FASTENING.—Randolph Hayden (assignor

97,193.—ANIMAL POWER.—J. B. Hall, Cheshire, N. Y.
97,194.—SHUTTER FASTENING.—Randolph Hayden (assignor to himself and J. C. Ferrel). Middletown, Conn.
97,195.—Monly of Cutting Shoes.—H. P. Hayward (assignor to himself, H. C. Mahu in, fra Holt, Levi Sherwin, L. J. Brown, and C. N. Wilson). Fitchburg, Mass.
97,196.—LOCK.—Alexander Inglis (assignor to himself, C. W. Tyer, and John Inglis), Indianapolis, Ind.
97,197.—NECK-YOKE.—John Jacobs, Oneida, Ill.
97,198.—BRAID HOLDER.—A. F. Jennings, Fredonia, N. Y. Antedated, Nov. 11, 1898.
97,199.—Evaporating Pan for Sorghum Juice.—A. J. Johnson (assignor of one half his right, to James Wilhelm), Louisville, Ky.

97.200.—CORN PLANTER.—Daniel Keethler, Mount Oreb, 97,201.—Cultivator.—A. B. King, Camden, Ohio. Ante-

17 1869 97,202.—BORING MACHINE.—F. L. King, Worcester, Mass. 97,203.—FLYER FOR SPINNING.—Wm. La Banister and C. W. Ricker (assigners to C. W. Ricker and S. S. Wilson), Charlestown, Mass. 97,204.—CAR REPLACER.—B. S. Lawson, New York city. 97,205.—COMBINED HARROW AND CULTIVATOR.—John Lerch,

Thersylle, Pa. 97,205.—Composition Boot and Shoe Heel.—Frank Marquard, Newburyport, Mass. 97,207. Coat. Car and Track.—George Martz, Pottsville,

97,208.—CAR COUPLING.—Charles Maus, Danville, Pa. 97,209.—TABLE SLIDE.—Seymour May and John Hooper, Waterloe, N. Y. 97,210.—Molding Machine.—Wm. McConnell, Clarksville,

97,211.—Locomotive Head-Light.—Lewis Michaels, Cin-

einnath, Ohie. 97,212.—CAR COUPLING.—J. T. Middleton (assignor to himself

and M. M. Harvey). Harveysburg, Oldo.
213.— HOV 31-PLOW PLATE AND POINTS.—Henry Miller, Readside, Va., assignor to himself, S. P. H. Miller, J. G. H. Miller, H. H. Miller, and J. H. Kite. 97,214.—INHALING APPARATUS.—James Montgomery, New

Yerk city.

97,215.—Buffer for Inserting Coiled Wire around the

EDGES OF LAMP-DEFLECTORS.—M. H. Mosman, Waterbury. Conn.

97,216.—COOKING RANGE.—C. D. Newton, Troy, N. Y. 97,217.—GRIDIRON.—M. V. Nobles, Elmira, N. Y. 97,218.—Device for Forming the Shed in Weaving Wire.—M. V. Nobles, Elmira, N. Y.

97,219.—KITCHEN SINK.—A. B. Nott, Fairhaven, Mass.
97,220.—MANUFACTURE OF SOAP.—Nelson Orcutt (assignor to D. D. Gregory), Syracuse, N. Y.
97,221.—MACHINE FOR PRINTING AND EMBOSSING PAPER HANGINGS.—E. S. Ormsby, New York city.
97,222.—MACHINE FOR HULLING RICE, COFFEE, ETC.—Enoth Oregon Rosten, Mass.
97,256.—WIRE FOR FASTENING SOLES TO SHOES, ETC.—Wm.
97,260.—WIRE FOR FASTENING SOLES TO SHOES, ETC.—Wm.
97,261.—DEVICE FOR BUTCHERS TO SHOES, ETC.—Fred.

Osgood, Boston, Mass. 97,928.—Hoisting Apparatus and Derrick.—Enoch Osgood, Boston, Mass. 97.224.—CONSTRUC

97,232.—RECHTROGATING STEAM ENGINE.—JOHN B. ROOT, New Yorketty. Antedated November 12, 1889.
97,232.—ME' HOD OF RENOVATING THE CUTTING EDGES OF HARVESTER GUARDS.—Jacob Rummel, Jr. (assigner to himself and F. V. Hoor), New Middletown; Ohio.
97,233. SEWING MACHINE.—Jacob Rupertus and Thomas R.

Wright, Philadelphia, Pa. 97,234.—MACHINE FOR SPINNING TUBES OF SHEET METAL.-

Frederick J. Seymour, Wolcottville, Conn.

97,235.—CUTTER FOR MOWING MACHINES.—Henry F. Shaw,
West Rozbury, assigner to James A. Woot bury, Boston, Mass.

97,236.—SIDE SADDLE TREE.—John Shelly (assignor to John
J. Grimsley), St. Louis, Mo.

97,237.—STEAM GENERATION.—Edwin Sheppard, Philadelphia,

97,238.—Spring Turnbuckle for Wire Rigging.—Well H.

97,238.—SPRING TURNBUCKLE FOR WIRE FERGUSS.
Shock, Baltimore, Md.
97,239.—RAILROAD SPIKE.—W. S. Shoemaker, Towsontown,
Md., and E. H. Shoemaker Columbus, Onio.
97,240.—M. CHANISM FOR CONVERTING RECIPROCATING MoTION INTO ROTARY MOTION.—Wm. Simpson and Alfred Gardier, Illord.
3,758.—SCHOOL DESK.—P. Born, Selin's Grove, Pa.
3,759.—GLASS WARE.—John Bryce, East Birmingham, Pa.

97.241.—Electric Fuse.—H. Julius Smith, Boston, Mass. 97,242.—RAILWAY CAR COUPLING.—A. Lewis Spear (assignor to himself, John Stephens, Jr., and Royal L. Lewis), Flint, Mich.

97,243.—Lime Kiln.—James B. Speed, Louisville, Ky. 97,244.—PLATE FOR ARTIFICIAL TEETH.—John A. Straight,

Albien, N. Y. 97,245.—CLOTHES MANGLE.—Esau D. Taylor and David Cohn,

97,260.—WIRE FOR FASTENING SOLES TO SHOES, ETC.—Wm. Wickersham, Boston, Mass. 97,261.—DEVICE FOR HELLIASING STANDING RIGGING.—Frederick Wittram . San Francisco, Cal 97,202.—LUBRICATING COMPOUND.—Cyrus S. Moore, Erie, Pa.

Pittsbuigh, Pa.

74,613.—MANUFACTURE OF TIN-LINED LEAD PIPE.—Dated February 8, 1869; antedated February 6, 1869; reissue 8,744.—Peter Nayler, New York city, assignee of Wm. Anthony Shaw.

57,195.—HAND SCREW CLAMP.—Dated August 14, 1846; reissue 3745.—Herbuary Schmidt, New York city.

79,040.—WIHE SPRING MATTRESS.—Dated June 16, 1868 Patented in Suxcey, Marché, 1855 of Israe 8,746. The Wevert-wire Vallers Company Hartford, Comm., assignees, by meshe assignments, of Franz Rudolph Wegman.

42,530.—LANTERN.—Dated April 26, 1864; reissue 3,747.—Wm. Westlake, James F. Dane, and John P. Covert, Chicago Aill., assignees of Wm. Westlake.

3,760.—PITCHER.—John Fleming and John Hamilton, Pitts-

burgh, Pa.
3,761.—PLATE OF A COOKING STOVE.—Luther W. Harwood
(assigner to Fuller, Warren & Co.), Trey, N. Y.
3,762.—COFFIN.—Samuel Hillier, Allegheny, Pa.
3,763.—STOVE.—R. P. Myers, B. F. Rouse, and J. M. Osborn,

Albien, N. Y.

97,245.—CLOTHES MANGLE.—Esau D. Taylor and David Cohn, Hernellsville, N. Y.

97,245.—LANTURN.—Nathun Thompson, Brooklyn, E.D., N. Y.
Antedated November 10, 3807.

97,247.—GAS MACHINE.—Howard Tilden, Boston, Mass.

97,248.—Animal Trap.—Robert Tompkins, Clarksville, Tenn.

97,248.—Spon Handle, Pa., assigners to William E. Weed & Co., Baltimere, Md.

97,248.—Animal Trap.—Robert Tompkins, Clarksville, Tenn.

97,248.—Spon Handle, Pa., assigners to William E. Weed & Co., Baltimere, Md.

97,248.—Animal Trap.—Robert Tompkins, Clarksville, Tenn.

97,248.—ANIMAL TRAP.—RODERT TOMPKINS, CHAIRSVIRE, Tenn.
97,249.—MACHINE FOR NAILING SHOE SOLES WITH WIBE.—Elmer Townsend, Besten, and Louis Gooden, Lowell, Mass.
97,259.—CAR COUPLING.—Henry B. Verrie and Daniel G. Wightman, North Ringson, R. I.
97,251.—ILAUNESS.—David Waldhauer, New York city.
97,252.—DUMPING MACHINE.—Benjamin Walton, Farisburg, III.
97,253.—SCALE BEAM.—John Weeks, Buffalo, N. Y. Antedated November 9, 1869.
97,254.—MACHINE FOR POLISHING WOOD.—Daniel Westley (assigner to himself and E. W. Buss), Corry, Pa.
97,255.—CIGAR MACHINE.—John Wettstein (assignor to himself and John Thomas Hennaman), Baltimore, Md.
97,256.—SHUTTLE SPINDLE.—Henry H. Wheeler and Oliver H. Reed, Lowell, Mass.

CITY SUBSCRIBERS.—The STENTIFIC AMERI-CAN will be delivered in every par tof the city at \$3.50 a year. Single copies for sale at a ... News Stands in this city, brooklyn, Jersey City, and Williamburg, and by most of the News Dealers in the United States.

SUBSCRIBERS-who wish to have their volumes bound, can send them to this office. The charge for binding is \$1.50 per volume. The amount should be remitted in advance, and the volumes will be sent as soon as they are bound.

RECEIPTS--When money is paid at the office for subscriptions, a receipt for it will be given; but when phacribers remit their money by mail, they may con sider the arrival of the Erst paper a bond-Ade neknowledgment of their funds.

Adrertisements.

The value of the Scientifie American as an advertising medium cannot be over estimated. Its circulation is ten times greater than that of any similar journal now oub-Ushed. It goes into all the States and Territories, and is read in all the principal libraries and reading-rooms of the world. We invite the attention of those who wish to make their business known to the annexed rates. A busi mess man vanits something more than to see his advertise-ment in a printed newspaper. He wants circulation. If it is worth 25 cents per line to advertise in a paper of three thousand circulation, it is worth \$250 per line to advertise in one of thirty thousand.

RATES OF ADVERTISING. Back Page.....\$1.00 a line. Inside Page......75 cents a line. Engravings may head advertisements at the same rate per line, by measurement, as the letter-press.

COLLEGIATE & Commercial Institute (Gen. Russell's School), New Haven, Conn. Winter term begins Jan.11

\$290 For First-class new 7-Octave Pianos. Sent on trial. T. S. PIANO CO. New York. ACHINE SHOP FOR SALE—viz: One Planer, 2 Shapers, 4 Lathes, Gear Cutter, Drill press, etc., at 249 Center st., New York.

FOR SALE LOW—A No.6 Taft's Pat.Power shears. In use but a few days.

H. MOMURTRIE & CO., 80 MER st., Boston, Mass.

NEW SCROLL SAW (Moyer's Pat.), without Post or Gate; uniform Tension; no jarring or noise; executes better and faster than any other. Send HAMPSON & COPELAND.

42 Cortlandt st., New York.

TOLIDAY JOURNAL FOR 1870.—
Containing a FAIRY STORY for Christmas, Plays, Fuzzles, and Wonders. 16 large pages, illustrated. Sent FREE on Traccipt of 2 cent Stamp for pressure.
ADAMS & Co., 25 Broundeld st., Boston, Mass.

Hidney Complaints, Gravel, Stricture, and all Organic Troubles cored by using the SHELDON SPRING WATER.
Book of thirty pages, with certificates, sent free. Address J. W. BEALS, Treasurer, Boston, Mass.

Pevey's Cupola, WARRANTED to Melt, with one tun of Coal, 2000 lbs. of Iron More than any other Cupos now in use.

ABIEL PEYEY,
Patentee and Proprietor, Lowell, Mass. Van Tuyl & Co.
No. 278 Cherry st., New York, Agents.

WELL-PAYING BUSINESS is offered to A Agents everywhere, by the AUBURN PUBLISHING Co., in selling their very Popular Books. All wanting Business for the Winter, should write at once for durextra liberal terms, to E. G. STORKE, Auburn, N. 7.

MIRISTMAS AND NEW YEAR.—Clem-Jence's Garment Supporter & Jacobs Family Scissors
Sharpener. "Beautiful Holiday Gifts," Sent anywhere
prepaid. Supporter, St. Sharpener, Sc. Great inducements
to Agents. SOUTHWICK & HASTINGS, Worcester, Mass.

N. FORNEY, Mechanical Engineer, 64

. The B'dway (Room 48) N.Y. Designs Plans, Estimates and Working Drawings of Machinery, etc., promptly and accuracity made. Instruction given in Mechanical Drawing to a limited number of puncts. WAGON AXLES, COMMON.CONCORD. HRON EUB, and SOLID COLLAR, of superiar quality & dutah. Also, Manufacturers of Muchinery, Put Stear and Bott Forge Haomers, Power Shears, Car Axlos, Windhass Nocks Trais Shapes, Crowburs, Buffer From 8, Cost from Jack Scruws, Parent Sware Blocks, Tire Braders, Corgings & Costings, Address, for Price List, LYMAN KINSLEY & CO., Cambridgeport, Mass.

"Containing Everything of Interest." SO SAYS THE "ASHEVILLE NEWS" OF THE

New York Observer, SAMPLE COPIES FREE SIDNEY E. MORSE, JR., & CO., 37 PARK ROW, NEW YORK.

NATIONAL EXHIBITION AT CORDOVA, ARGENTINE REPUBLIC.
All parties desiring information in regard to this Exhibition will please apply to either of the following:
His Excelency, Manuel R. Garcia, Argentine Minister
Washington; Edward F. Davison, Argentine Consul
General, New York; Bell ario Rollan, Special Agent of
the Central Committee, at the Consul General's office, New York, or to the Argenting Consuls at Savannah, Baltimore, Philadelphia, Boston, or Portland.



The ACME CLUBSKATE requires no Straps, Plates, or Keys. Fits any beet. Fastened instantly. Prices \$6, \$7, \$10. G. L. BALLEY, 11 School st., Boston, Mass., agent for the United Stakes.

DEPARTMENT OF THE INTERIOR

PATENT OF THE INTERIOR.

WASHINGTON, D. C., NOV. 10, 1869.

The "List of Claims" of Patents issued from this Office, will be printed weekly through the year 1870, commencing with the first issue in January.

The issues will be paged consecutively, and an index will be made up and added at the close of the year.

The Decisions of the Commissioner, whenever issued, will be also sent.

The price will be \$5 per year, in advance, and those desiring them are requested to send their names and money to the office early.

SAMUEL S. FISHER, Commissioner.

8 STATES. 1869.

1st Prize. Talpy's pat. Hand Saw. Boy rip 3-in. plank.
Warranted to work 3 men. Thousands sold. Agents
wanted. WM. H. HOAG, M'T. Postomice Box 435,N.Y.

ACHINERY FOR SALE-ACHINERY FOR SALE—
it of the consisting of steam engines, boilers, machinists' troils, planers from two te five feet wide, lathes from 1½ to 7-ft. swing, and one beiling, turning, and slotting mill, of 8-ft. swing, and one beiling, turning, and slotting mill, osafes, portable mills, fan blowers, water wheels, patient, shatting platform scales, etc., etc., all at prices that will insure a rapidsale. Send for schedule. Engines, water wheels, and machinity made to order.

GEORGE T. MELAUBILENS. & CO...
120 Fulton st., Boston, Mass.

STAMMERING cured by Bates Appliances, For descriptive pamphlet, address States of & Co., Box 5076, N. Y.

TINEGAR.—How Made from Cider, Wine, Molasses, or Sorghum in 10 hours, without using drugs. For circulars, address F. I. SAGE, Vinegar Maker, Cromwell Conn.

TRON STEAMERS, HULLS, & LIGHTERS. Estimates & Specifications furnished on application. HENRY J. DAVISON, 77 Liberty st., New York, Agent for Pusey, Jones & Co.

AIR, WOOL, AND COTTON DUCK FELT, for sale by the Square foot, or beliers covered by Contract. RUSSIAN FELT, of every description, RENRY J. DAVISO...
17 Liverty st., N. Y.



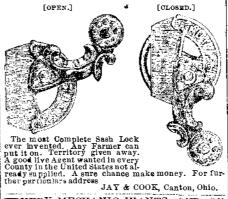
Do your own Printing

Do your own Printing

Novelty Job Printing Press
The only Low-Priced-Press
The only Low-Priced-Press
The only Low-Priced-Press
The only Low-Priced-Press
as well and as rapidly on this
press as on the best that printers use; and fer printing effices
where artificial power is not
used, or for business men, apethecaries, grecers, country traders, and others who desire to do their own printing, it
is entirely without a rival. The Best Holiday Git for
full descriptive illustrated circulars, with testimonials
from all parts of the country, and specimens of plain
and color printing done on the press, & specimen sheets
of types, borders, cuts, rules, etc., to
BENJ. O. WOODS, Proprieter,
351 Federal st. Boston, Mass.

"IMPORTANT TO EVERYBODY."

"The Nut Shell Sash Lock."



EVERY MECHANIC WANTS ONE OF

TVERY MECHANIC WANTS ONE OF my Patent Pencil Attachments for Compasses; it fits any size. Price 50 cents. Sent free by mail to any address. Agents wanted. Trate supplied.

Address C. I. TYLER, Ithaca, N. Y.

Scientific Men Should Read

MAN IN GENESIS AND IN GEOLOGY;
Or, The Biblical Account of Man's Creation, tested by scientific theories of his origin and antiquity. By J. P. Thompson, D.D. Price \$1. Sold by brokenirs, and sent first post by

889 Broadway, New York.

889 Broadway, New York.

BALL & CO., Worcester, Mass., Manu
of facturers of woodworth's, Daniel's, and Dimendien Paners; Molding, Matching, Tenoning, Mortising
Shaping, and Buring Macchines; Scroll Saws, Re-Sawing,
Hand Bering, Wood Turning Lathes and a variety of
other Machines fer Working Wood. Also, the best Parent Doer, Hub, and Rail Car Mertising Machines in the
world. 23" Send for our Hustrated Catalogne.
RICHARD BALL.

END \$1 FOR ONE DOZEN VARIEGA ted Toy Tops as samples. So per gross. T. F. RANDOLPH, Ciacinnati, Onio

ted Toy Tops as samples. 19 per gross.

T.F. RANDOLPH, Cincinnati, Onio

SCALITY RAMPANT!—Swindlers in

orms!—The "STAR SPANGLED BANNER" is threatened with arrest for its truthful exposures of the Tricks
and Traps of swindlers. One rasea offers \$500 to be "let
alone." See the Dec. "Banner." Twenty-rive swindlers
"youtilated." The STAE SPANGLED BANNER enters
upon its eighth year in January, 1810. It is a large illustrated 40 column paper; eight pages; Leager size; fine
type, overflowing with splendid reading. It is devoted
to Ulcrature, Poetry, Sease, Wit, Wisdom, and to anything calculated to entertain or instruct. The superb
Steel Engraving "Evangeline," 11-2 x 2 feet in size,
mounted on a reller, is sent, prepaid, and gratis to
every subscriber.

Only Steventy-five cents a year. Now is THE TIME.
Your money will be refunded if you are not perfectly
satisfed Remember there's nothing like it. You need
it. It will save you money, all newsdeders sell it.
Only Five cents. Send Seventy-five cents and secure it
'till 1871, and the elegant Engraving gratis. December
No. sent for Six cents. A dress.

STAR SPANGLED BANNER.

Hinsday. N. H.

PATENTEES

Who have failed in their efforts to dispose
of their rights will de well to consult us, either
personally or by mail, free of charge. Many valuable irventions are lying dermant for want of proper management that might realize a fortune for their owners if
placed in our hands and brought to the attention of caplialists. Only these will be accepted which we feel satsafed can be sold, as our object is selely the realization
of a commission. A can did opinion can therefore be relied upon. No charge for services unless successfulReferences on application.
E. E. ROBERTS & CO., Consulting Engineers,
15 Wall st., New York.

Books on Turning.

Specimens of Fancy Turning Executed on the Hand or Foot Lathe. With Geometric, Oval, and Eccentric Chucks, and Elliptical Cutting Frame. By an Amateur. Illustrated by 30 exquisite Photographs.

4to.

The Turner's Companion. Containing Instructions in Concentric, Elliptic, and Eccentric Turning; also various Plates of Chucks, Tools, and Instruments; and Directions for using the Eccentric Cutter, Drill, Vertical Cutter, and Circular Rest; with Patterns and Instructions for working them. A new edition in one vol. 12mo. 28150

The above or any ofmy Books sent by mail, free of postage, at the publication prices. My new revised and entarged CATALOGUE OF PRACTICAL AND SCIENTIFIC BEOKS, 14 pp. 8vo, now ready, complete to Nov. 1. 1869, will be scat, free of postage, to any one who will favor me with his address.

HENBY CAREY BARD.

11 industrial Publisher,
406 Walnut st. Philadeiphia, Pa.