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sun to shine through. The beam of light passing through the hole will cross the circle once before noon and once in the afternoon. Watch when it crosses the circle in the morning, and mark the point of intersection. Repeat the operation in the afternoon. The points of intersection will lie at equal distances from the true meridian. Join the two points by a line, and bisect it to find its middle point. A line joining this middle point and the center of the vertical pin will lie on the meridian. It is better to draw several concentric circles and perform the same operation with each to secure accuracy. Theyshould be so drawn that the beam will cross them between the hours of 9 and 12 in the morning. The best time to do this is about the summer solstice. It will be sufficiently accurate for your purpose, however, to do it now. Glass lamp chimneys should be annealed at the time they are manufactured. We do not thinkyou will succeed in an nealing them in a stove oven.

E. P., of Ind.-We believe there are a number of makers and dealers in india-rubber tires for velocipedes, but we cannot remember their address. Better advertise for what you wish in our "Business and Personal" column.

> Personal. Business and

- The Charge for Insertion under this head is One Dollar a Line. If the Notice exceed Four Lines. One Dollar and a Half per line will be charged.
- Wanted.—A young man desires a situation to do repairs, keep the machinery in order, etc., in a hardware manufacturing establishmentI think I can give satisfaction. Address J.P.Link, Troy, N.Y.
- Velocipede-\$150 due-bill of \$350 piano for one. Address N. F. P., box 182, Paterson, N. J.
- Wanted-A good 2d-hand milling machine. Address, stating price, D. E. Whiton, West Stafford, Ct.
- New patent side-delivery harvester rake, for one or two-wheeled harvester, for sale. Address Ed. Stewart, Fort Madison, Iowa.
- A practical engineer and machinist, sixteen years' experience, desires a position as master mechanic or foreman. Very best. of references furnished. Address J. H. Lord, Box 773, New York.
- S. S. Pollard's celebrated Mill Picks, established 1837, 137 Raymond st., Brooklyn, N. Y.
- Stock, Stencil,& Dies. E.H.Payn, Payn's Block, Burlington, Vt.
- Wanted-Crushed Asbestos. Address E. A. Morgan, care D. U. Morgan, No. 832 Market st., Philadelphia, Pa.
- Wanted-A competent man to run a vencer machine. Address P. O. Box 6.166. New York city.
- Patentees and inventors of really valuable improvements of general utility, who wish to dispose of same, address, with full particulars, Postoffice Box 3.322. New York.
- Wanted-Steady employ for portable saw mill, 3 to 5 years' contract, by the thousand. Address Box 8, Albion, Erie Co., Pa.
- Manufacturers of soft gray iron, suitable for small castings, please send address to Miller & Keirnan, Weedsport, N. Y.
- J. D. Borin, Scottsboro, Ala., wants a first-rate Brick Machine.
- Pickering's Velocipede, 144 Greene st., New York.
- A. B. Fisher, practical millwright, 9 Ross st., Brooklyn, E.D., N.Y.
- \$1 per year.-Inventors and Manufacturer's Gazette. The cheapest, best, and most popular journal of the kind published. Send stampfor specimen copy: Saltiel & Co., Publishers, P. O. box 448, or 37 Park Row, New York.
- Machine for bending fellies-Patent for sale-the whole, or State Rights. Address DeLyon & Werner, Canton, Miss
- To velocipede makers-a thoroughly competent carriage maker, who has applied for two patents-good especially for ladies-two-wheelers wants a situation. Has had large experience in first-class carriage shop as foreman. Best city references. Address G.W., foreman, 5492d Avenue
- Patentee of Dunbar's packing please address Dormit A. John son, St. Louis, Mo., till May 10, then at Springfield, Mo.
- Peck's patent drop press. Milo Peck & Co., New Haven, Ct.
- Wanted-Scientific American, First Series, Vols. 2, 3, 4, 5, and 6. Address W. Elliot Woodward, Boston Highlands, Mass.
- Rights, or whole interest for sale-guide attachment for boring instruments. Address A. A., Postoffice box 4769, New York,
- Diamond carbon, formed into wedge or other shapes for point ing and edging tools or cutters for drilling and working stone, etc. Send stamp for circular. John Dickinson, 64 Nassau st., New York.
- A milling machine for sale, price \$210. Also, 5-ft. floor drill lathe, price \$75. Are Lincoln's make and used but few months. E.S. Miner, Burrville, Conn.
- The new method for lighting street lamps! For illustrated circular, with letter from President Manhattan Gas Light Co., and Sup't of Lamps N. Y. City. Address J. W. Bartlett, Patentee, 569 Broadway, N. Y.
- The Tanite Emery Wheel.-For circulars of this superior wheel, address " Tanite Co.," Stroudsburgh, Pa.
- The manufacture and introduction of sheet and cast metal small wares is made a specialty by J. H. White, Newark, N. J.
- The Magic Comb will color gray hair a permanent black or

Becent American and Loreign Latents.

Under this heading we shall publish weekly notes of some of the more prom inent home and foreign patents.

SPRING SCISSORS .- Albert Murdock, North Bridgewater, Mass .- This invention has for its object to construct scissors which can be constantly kept in the hand without being in the way of other work to be done, so that they may be used on sewing machines for clipping threads, and the likepur poses, without requiring the machine to be stopped, and also for other purposes. The invention consists in arranging on one blade, which is provided with a ring handle, another blade without a handle and held open by a spring.

VELOCIPEDE.-W.S. Hill, Manchester, N. H.-This invention relates to a new three-wheeled velocipede, which is so constructed, that it will, when passing over uneven ground or when describing a curve, not lose its balance but will be adjustable to retain the center of gravity in the proper position. SAW FILER AND JOINTER.-C. G. Miller, Brattleborough, Vt.-This invention relates to a new apparatus for filing and jointing circular saws, and has for its object to produce an instrument, which can be adjusted to all kinds of nuts together when they are adjusted. saws in any suitable position, and for files of any suitable length.

Corron GIN.-R. W. Stough, Griffin, Ga.-This invention relates to an imcontion, as it is fed up to the saws, in order to produce a more uniform ac tion of the saws thereon.

FAREOW.-B. B. Williams, Laclede, Mo.-This invention is designed to arrange harrows so that they may be readily folded into such a shape that they may be drawn over the ground, when it is required to remove them from one place of operation to another, without the teeth being in contact with the ground.

VALVES AND VALVE SPRINGS, FOR MELODEONS, ORGANS, ETC.-A. L. Swan, Cherry Valley, N. Y .- This invention relates to improvements in valves and the springs employed for closing them, such as are used in melodeans, organs, and other similar instruments, designed to produce valves which will close more tightly, and more durable and sensitive springs.

CARRIAGE COUPLING .- Henry J. Pringle and William Pringle, Columbus, Ohio.-This invention has for its object to furnish an improved coupling for connecting the forward axle to the reach, and other parts of the carriage, which shall be simple in construction and reliable in operation.

INSECT DESTROYER.-Jacob Hinds, Hindsburg, N.Y.-This invention relates to a new and useful composition for destroying insects on vines, trees, and shrubbery, and which composition, when used in connection with coal tar or pine tar, is a specific against the ravages of the "wire worm."

HAND TRUCK FOR SACKING GRAIN AND MOVING THE SAME.-Wm. Brockleshy Jr., Caledonia, Obio.—The object of this invention is to provide a simple and efficient hand truck, whereby grain, or other analogous matter, may be sacked and transported to any part of a warehouse, mill, barn, or other building, with convenience and dispatch.

WELL AUGER.-A. A. McMahen, Oxford, Miss.-The object of this in vention is to provide a simple, and effective apparatus for boring wells and deepholes for other purposes.

HOUSEHOLD MACHINE.-William W. Wilson, Geneva, Wis.-The object of this invention is to produce an improved household machine, by combining, in the same machine, a washing machine and churn, and in so vising the mechanism of the same that they can be operated separately or together in a simple and effective manner.

DUMPING WAGON AND CAR.-Thomas H. Gary, Bristol, Md.-The object of this invention is to simplify and improve the device allowed to me January 22d, 1869.

PICKER.--A. H. Carroll, Baltimore, Md.-The object of this invention is to construct the picker in such a manner that it will keep the rod more constantly and uniformly lubricated than hereto fore, and will not spatter the oil upon the cloth.

BROOM HEAD .- W. C. Spellman, Baltimore, Md.-The object of this invention is to provide a new and improved mode of fastening the brush to the head.

ADJUSTABLE BREAST COLLAR.-George W. Blaksley, Rockford, Ill.-The bject of this invention is to provide for public use a breast collar so constructed as to be easier for the horse and to be adjustable in position.

PICTURE AND ADVERTISING FRAME .- W. H. Sadler and J. M. Drysdale, Baltimore, Md.-The object of this invention is to provide for public use, a cheap, convenient, and ornamental device for holding and displaying pictures, cards, or advertisements, and so constructed that at any time one or more of the pictures, cards, etc., may be removed or introduced without disturbing the others, and without the necessity of taking the frame down from the wall, or removing its glass or back, while at all times its contents aresecurelyheld, and cannot be tampered with by any one but the proprietor.

SELF-ADJUSTING WATCH KEY OR HOLDING TOOL.-John S. Birch, New York city.-The nature of this invention consists in so constructing a watch key, or instrument for holding small objects, that it shall accommodate itself to the size of the object held, holding it firmly and securely. This is very important in most of the manipulations connected with watchwork and in manufacturing and reDairing jewelry, and is especially important in the winding and setting of watch movements, the arbors of which are usually dissimilar in size, and yet in all cases, from the delicacy of the mechanism requiring that the key should exactly fit the arbor.

CLOTHES DRYER.-Louis Winterhalder and David Wilson, New York city. -This invention relates to a new clothes dryer of that class in which a se ries of bars are pivoted to a frame in such manner that they can be folded apart to form the dryer or together when not to be used.

COMBINED WASHING AND WRINGING MACHINE.-H. O. Reddish, Linden, N. Y.-This invention has for its object to furnish an improved machine, simple in construction, easily operated, and effective in operation, and which shall be so constructed and arranged that the clothes may be thoroughly washed, and, at the same time, wrung out so as to pass from the machine into the clothes bucket or other receptacle prepared to receive them ready to be hung out to drv.

SEED PLANTER.-I. F. Herrin, San Antonio, Texas.-This invention has for its object to furnish a simple, convenient, effective, and accurate machine, by means of which the planting may be readily done in exact check

holding back, and which shall steady the load at the same time that it re

FANNING MILLS.-Harvey F. Siebert, Brady's Bend, Pa.-This invention has for its object to improve the construction of fanning mills so as to make them more effective and reliable in operation.

WEATHER STRIP.-E. Mears, Battle Ground, Ind.-This invention relates to a new weather strip for doors, said strip being so arranged that it will be closed over the outer edge of the sill, and still allow the door to be opened to the inside. The invention consists in the use of a hinged weather strip, provided with a spring in such manner, that it will, by the said spring, be swung up, and out of the way of the sill whenever the door is open, but when the door is closed, the weather strip strikes against a fixed bracket or stop provided on the door frame, and is thereby folded over the outer edge of the sill to securely close the crevice formed between the door and sill.

LOCK NUTS.-Almon Roff, Southport, Conn-The object of this invention is to so-arrange a system of nuts on screws or bolts, that when the said nuts have been adjusted on the screws, they cannot be displaced spontaneously by jarring or other motion. The invention consists in the combination of set screws, with a right and left-hand nut, working on separate threads, or of one nut and one screw working in opposite directions for locking the

VELOCIPEDE.-John J. White, Philadelphia, Pa.-This invention relates to a new velocipede, which consists entirely of two wheels and their connectnoved arrangement of means for communicating a lateral movement to the ing axle, the axle supporting a frame in which the seat and driving gear arranged so that they can be conveniently operated. The wheels can, with this arrangement, be made very large to obtain great velocity, and the whole apparatus can be made light and convenient.

CIGAR MACHINE.-R. M. Cole, Burlington, Vt.-This Invention has for its object to construct a machine for rolling cigars in which both right and left-handed wrappers can be used, in which the cigar can be seen while it is being formed, and which can be retained in motion continually, even when no tobacco is rolled init. The invention also consists in rolling the clgar within an endless apron, which is so held between suitable forms or molds that it imparts to the cigar the requisite shape. The apron is guided over rollers, which impart continuous motion to it, and of which some can be shifted without straining and interfering with the motion of the apron.

ELECTRIC ORGAN ACTION.-Holborne L. Roosevelt, New York city.-The object of this invention is to apply electricity from a battery or other source to the operation of organs, so that the keys can be played at a suitable distance from the organ and without any difficulty. The invention consists in a novel manner of connecting the wires with the keys and pallets, by dropping them into cups that are partly filled with mercury, the wires on the keys being held away from the mercury by means of springs as long as the keys are not touched. When, however, a key is depressed, this wire is dropped in the mercury, and a current thereby established by which two coils are charged, to cause them to attract an armature.

BREECH-LOADING PISTOL.-John McGoveren, New York city.-This inven tion consists of an improved method of maintaining the barrel inits po sition in the stock, and of restoring it to the said position when displaced for loading.

NURSING TABLE .- Jeremiah Larkin, Unionville, S. C.- This invention relates to improvements in tables, to render them useful for sick persons, in helping themselves when unattended by nurses.

Official Bist of gatents.

Issued by the United States Patent Office.

FOR THE WEEK ENDING APRIL 13, 1869.

Reported Officially for the Scientific American.

SCHEDULE OF PATENT OFFICE FEES.

	SOMEDULE OF FAIENI OFFICE FEES:	
	On each caveat	\$10
	On filing each application for a Patent (seventeen years)	\$1 i
	Un issuing each original Patent.	490 B
	On appeal to Commissioner of Patents	290
ľ	Un application for Reissne.	\$32.0
ľ	On application for Extension of Patent	\$50
5	On granting the Extension	\$50
ŝ	On fling a Disclaimer	\$11
ļ	On filing a Disclatmer On an application for Design (three and a half years)	λiö.
ĺ	On an application for Design (seven years)	Q1K
ļ	On an application for design(fourteen years)	\$30
j	In addition to which there are some small revenue-stamp taxes. Reside	ntu
i	of Canada and Nova Scotia pay \$500 on application.	II UB

- 88.767-MOTIVE POWER.-John B. Atwater, Chicago, Ill. 88,768.—FEEDING TROUGH FOR HORSES.—Addison D. Barrett,
- Cambridgeport, Mass. 88,769.—KROUT-CUTING MACHINE.—W. K. Baylor and Con-rat Rapp, Batesville, Ind. 88,770.—GATE.—Jacob Behel, Rockford, Ill.
- 88,771.—STEAM ENGINE VALVE GEAR.---Riley Bowers, Chillicothe, Ohio. 88,772.—BED BOTTOM.—Charles A. Brigham, Cleveland, Ohio.
- 88,773.—GATE.—Lorenzo D. Brooks, Syene, Wis. 88,774.—AUTOMATIC BOILER FEEDER.—Daniel L. F. Chase,
- BOSION, Mass.
 88,775.—BALING PRESS.—Peter K. Dederick, Greenbush, N. Y. Antedated Aprils, 1869.
 88,776.—FOLDING CHAIR.—Carl Dieterich. Roslindale (West
- Robury, Mass. 777.—Holder For Stove Lids.—Lindley M. Doudna, 88,5
- Washington, D. C. Washington, D. C. 778.—ANIMAL TRAP.—Josiah W. Ells, Pittsburgh, Pa.
- 88,778.—ANIMAL TRAP.—Josiah W. Ells, Pittsburgh, Pa.
 88,779.—MODE OF ORNAMENTING CANDLES.—Arthur Field, Upper Marsh, Lambeth, and William Bryer Nation, No. 394 Old Kent Road, England; (said Nation assigns his right to said Field).
 88,780.—TUCK-CREASING ATTACHMENT FOR SEWING MA-CHINES.—H. W. Fuller, Brooklyn, N. Y.
 88,781.—ANCHOR.—J. Durrell Greene, Cambridge, assignor to himself and Charles H. P. Plympton, Boston, Mass.
 88,782.—PORTABLE FENCE.—Frank W. Groff, Indianapo-

The radie come in the second		00,102.—I ORTABLE FENCE.—FIAHK W. OTOH, Indianapo-
brown. Sent by mail for \$1.25. Address Wm. Patton, Treasurer Magic	row, and which will allow the dropping device to be instantly thrown into	lis, Ind.
Comb Co., Springfield, Mass.	or out of gear when desired.	88,783.—BOLT MACHINE.—Moore Hardaway, St. Louis, M6.
	0	88,784.—LAMP FOR COOKING PURPOSES.—Mary E. Hatch, Be-
For coppered iron castings address J. H. White, Newark, N. J.	CULTIVATORJames B. Sexton, Pella, lowaThis invention has for its	•
	object to improve the construction of the parts of a cultivator, by means	10it, Wis. 88,785.—EARTH SCRAPER. — John Y, Herston, Warrick
	of which the plow beams and draft are connected with the truck so as to	
W. J. TWe think the patent asbestos roofing manufactured	-	county, Ind.
by H. W. Johns, of this city, is the best substitute for tin or slate. It is		88,786.—MANUFACTURE OF RAILS FOR RAILROADS.—Charles
	ily adjusted, according to the comparative strength of the two horses.	Hewitt, Hamilton township, N. J.
cheap and easily applied.		88,787.—SEEDER AND CULTIVATOR.—E. W. Hewitt and Geo.
	HAT SHAPING MACHINEGeorge W. Gallagiere and E. W. Ruby, New	Gorgam, Pecatonica, Ill.
Tempered steel spiral springs. John Chatillon, 91 and 93	Milford, Conn.—This invention has for its object to furnish a simple, con-	88,788.—CASTING TWEERS.—Wm. M. Johnston (assignor to
1	venient, and effective machine for "curling" hats, which will do quickly,	himselfand DavidP. Estep), Pittsburgh, Pa.
Cliff st., New York.	accurately, and well, work that has heretofore been done only by hand.	88,789.—CARRIAGE JACK.—A. W. Keeler and Jacob Eckert,
For solid wrought-iron beams, etc., see advertisement. Address		Lafayette, N. Y.
	VISEJ.D. Beck, Liberty, PaThis invention has for its object to fur-	88,790.—CORN SHELLER.—Elisha Kelley, Locust Grove, Ohio.
Union Iron Mills, Pittsburgh, Pa., for lithograph, etc.	nish an improved vise, which shall be so constructed and arranged	88 791 - COMBINED KNOB LATCH AND LOCK - J. B. Kelley
		Brandon Vt
achinists, boiler makers, tinners, and workers of sheet metals	as to securely hold irregular, beveled, or plain work, and which shall, at	88,792.—FLOUR BOLT.—Ira B. Ketchum, Rochester, Minn.
read advertisement of Parker's Power Presses.	the same time, be simple in construction and easily adjusted.	
reau auvernsement of randors reader ressos.	And the second sec	88,793.—HAIR DYE.—Joseph Lory, Memphis, Tenn.
Mill-stone dressing diamond machine, simple, effective, durable.	APPARATUS FOR FORCING LIQUIDS FROM CLOSE VESSELS J. L. Treat,	88,794.—PLOW.—Benjamin F. Masters, Middleport, Ill.
Mill-stone dressing diamond machine, simple, enective, durable.	New York cityThis invention has for its object to furnish a simple, con-	88.795.—MACHINE FOR MANUFACTURING ROOFING TILE.—
Also, Glazier's diamonds. John Dickinson, 64 Nassau st., New York.	venient, and reliable apparatus, by means of which beer or other liquids	Charles Messenger, Cleveland, Chio.
	maybe forced out of close casks, and raised to the desired position by the	
Winans' boiler powder, N. Y., removes and prevents incrusta-	pressure of atmospheric air.	88,797.—SLED BRAKE.—S. A. Mitchell, Alstead Center, N. H.
tions without injury or foaming; 12 years in use. Beware of imitations.		
tions without injury or ioaming; 12 years in use. Dewale of imitations.	SLED BRAKESamuel W. Barber, Heath, MassThis invention has for	88,798.—PLATE FOR ARTIFICIAL TEETH.—George Morrison
The new ships we state the same of all the locations we we for the more		Lockport, Ill.
The paper that meets the eye of all the leading manufacturers	so constructed and arranged as to be applied by the action of the team in	88,799METAL BIRD HOUSEJohn Murdock, Jersey City,
throughout the United States-The Boston Bulletin. \$400 a year	so constructed and arranged as to be ablined by the action of fife from 11	N. J., assignor to John Savery's Sons, New York city.

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88.981.—MACHINE FOR HEADING BOLTS.—T. T. Prosser

Chicago, III.
88,982.—MANUFACTURE OF ILLUMINATING GAS.—A. C. Rand, New York city.
88,983.—CHURN LID SCREEN.—Edward Reynolds, Winnecožne, Wis.
88,984.—STOCKING SUPPORTER.—J. A. Robbins, Boston, Mass.
88,985.—DOOR SPRING.—Wm. Ross, Baltimore, Md.
88,986.—DOOR SPRING.—Wm. Ross, Baltimore, Md.

88,985.—Door SPRING.—Wm. Ross, Baltimore, Md.
88,986.—BASE-BURNING STOVE.—Elihu Smith, Albany, N. Y.
88,987.—BASE-BURNING STOVE.—Elihu Smith, Albany, N. Y.
88,988.—FOLDING TABLE.—J. W. Smith, Charlestown, Mass.
88,990.—METHOD OF TRANSMITTING MOTION IN CAR BRAKES AND OTHER MACHINERY.—Joseph Steger, New York city.
88,992.—TRUNK.—C. A. Taylor, Chicago, III.
88,993.—STAIR ROD.—H. Uhry, New York city.
88,994.—STAIR ROD.—H. Uhry, New York city.
88,994.—STAIR ROD.—H. Uhry, New York city.
88,995.—STAIR ROD.—H. Uhry, New York city.
88,995.—MING AND TRAVELER FOR SPINNING.—Thos.Welham , Philadelphia, Pa.
87,997.—MECHANISM FOR MIXING SOAPSTONE WITH COTTON OF BRING CARBED.—T. Welham, Philadelphia, Pa.

BEING CARDED. T. Welham, Philadelphia, Pa. 88,998.—GANG PLOW.—Geo. Wharton, Jerseyville, Ill. 88,999.—SIRUP PITCHER.—J. P. Whipple, Woonsocket, R. I. 89,000.—WASHING MACHINE.—John Young, Amsterdam, N.Y 89,001.—HAND CORN SHELLER.—JOSPh C. Curryer, Thorn town, Ind.

REISSUES.

83,444.—STEAM ENGINE VALVE DEVICE.—Dated Oct. 27,1868

\$3,444.—STEAM ENGINE VALVE DEVICE.—Dated Oct. 27,1\$68 reissue 3,864.—William Baxter, Newark, N. J.
\$2,957.—HOLLOW AUGER.—Dated Oct. 13, 1868; reissue 3,365 -W. A. Ives, New Haven, Conn.
\$3,435.—ROCK CHANNELING MACHINE.—Dated Oct. 2, 1866; reissue 3,366.—E. G. Lamson, Shelburne Falls, Mass.
16,460.—STONE CHANNELING MACHINE.—Dated Jan. 27, 1857; reissue 3,368.
18,552.—ROCK CHANNELING MACHINE.—Dated Oct. 6, 1857; reissue 3,368. Division A.—E. G. Lamson, Windsor, Vt., assignee of Wil-ham Plumer.
18,352.—ROCK CHANNELING MACHINE.—Dated Oct. 6, 1857; reissue 3,368. Division A.—E. G. Lamson, Windsor, Vt., assignee of Wil-ham Plumer.
18,352.—ROCK CHANNELING MACHINE.—Dated Oct. 6, 1857; reissue 3,369. Division A.—E. G. Lamson, Windsor, Vt., assignee of Wil-ham Plumer.
18,352.—ROCK CHANNELING MACHINE.—Dated Oct. 6, 1857; reissue 3,369. Division A.—E. G. Lamson, Windsor, Vt., assignee of Wil-ham Plumer.
18,367.—HORSE RAKE.—Dated March 19, 1867; reissue 3,370.

DESIGNS.

3,446.-HANDLE OF A TABLE CASTER.-H. A. Dirkes, New

3,440.—IIA IDE OF A. L. A. Fanshawe, New York city.
3,447.—TRADE MARK.—H. A. Fanshawe, New York city.
3,448.—CARRIAGE.—John C. Ham, New York city.
3,449.—ERASER.—Wesley W. Hamilton (assignor to himself and W. G. Vermilye), New York city.

EXTENSIONS.

EXTENSIONS. MACHINE FOR MAKING CANDLES.—John Stainthorp, Brooklyn N.Y.-Letters Patent No. 12,492, dated March 6, 1835. CUT-OFF VALVE FOR STEAM ENGINES.—Noble T. Greene, of Providence, R. L-Letters Patent No. 12,507, dated March 13, 1855. PROCESS OF CURING MEATS.—John C. Schooley, Cincinnati Ohio.—Letters Patent No. 12,530, dated March 13, 1855. BENZOLE VAPOR APPARATUS.—Charles Cunningham, Nashua N.H.—Letters Patent No. 12,535, dated March 13, 1855. CULTIVATOR.—G. W. N. Yost, of Corry, Pa.—Letters Patent No. 12,571, dated March 20, 1855. PRINTING PRESS.—Lemuel T. Wells, of St. Louis, Mo.—Let-ters Patent No. 12,568, dated March 20, 1855. ILLUMINATING VAULT COVERS.—Thaddeus Hyatt, of New York city.—Letters Patent No. 12,554, dated March 27, 1855. OPERATING VALVES IN DIRECT-ACTING STEAM ENGINES.— William H. Guild and William F. Garrison, of Brooklyn, N.Y.—Letters Patent No. 12,262, dated March 27, 1855. PLOW.—Thomas J. Hall, of Bryan, Texas.—Letters Patent No. 12,627, dated April 8, 1855.

APPLICATIONS FOR THE EXTENSION OF PATENTS.

BUCKLES.-Stephen E. Booth, of Orange, Conn., administrator of the es-

PLOW.—Thomas ... 12,627, dated April 8, 1855.

-Elijah Young, Fayetteville, Mo

- 88,802.—WHEELWRIGHT MACHINE.—James O Connor, Jack-son, Mo.
 88,803.—STILT.—Charles Page and George W. Miller, Meriden, Conn.
 88,804.—HORSE HAY FORK.—James A. Park (assignor to himself and William Woodhouse). Lansing, Mich.
 88,805.—FURNACE FOR ANNEALING TACKS, NAILS, ETC.—E.
 98,805.—WASHING MACHINE.—Spencer B. Peugh, Salem, Ind.
 88,807.—PROCESS AND APPARATUS FOR THE MANUFACTURE of Extraor of Bark, src.—John Pickles, Wigan, England.
 89,900.—APPARATUS FOR ARRANGING AND CONVEYING SCREW BLAKES.—E S. Pierce (assignor to National Screw Company), Hartford,
- OF EXTRACT OF BARK, ETC.-John Pickles, Wigan, England. 88,808.-SEWING MACHINE.-Heinrich Pollack and Edwin chmidt, Hamburg, Gern
- 88,809.-NAIL PLATE FEEDER.-I. R. Richardson, New Castle, Pa. 88,810.—TABLE CUTLERY.— Charles L. Robertson, Provi-
- 88,810.—TABLE CUTLERY.—Charles L. RODERSON, Frovidence, R. I.
 88,811.—COMB.—Charles L. Robertson, Providence, R. I.
 88,812.—CORN PLANTER —Andrew Runstetler, Peoria, III.
 88,813.—MILKING STOOL.—Erastus W. Scott, Wauregan, Conn.
 88,814.—BLIND CATCH.—Wm. Frank Seavey, Portland, Me.
 88,815.—VELOCIPEDE.—Samuel M. Skidmore, Brooklyn, N. Y.
 88,816.—WASHING MACHINE.—Hamilton E. Smith, New York city.

- 88,816.—WASHING MACHINE.—Hamilton E. Smith, New York city.
 88,817.—HANDLE FOR DRAWERS.—John Smith, Brockport, N. Y.
 89,818.—GATE.—W. Willard Sowles (assignor to himself and A. D. Wilcox), Manlius, M. Y. Antedated January 18, 1869.
 88,819.—FENCE.—Thomas Stanford, Noblesville, Ind.
 88,820.—FIRE TONGS.—F. Stith, Memphis, Tenn.
 99,991. Depring M: Super M: Super M: Super N. Y.

- 88,820.—FIRE TONGS.—F. Still, Memphis, Tenn.
 88,821.—BORING MACHINE.—Miles Sweet, Troy, N. Y.
 88,822.—HAY SPREADER.—Benjamin F. Taft (assignor to himself and David Needham), Groton Junction, Mass.
 88,823.—MACHINE FOR MIXING TEA.—William Thompson, No. 85 Lower Gardiner Street, Dublin, Ireland.
 88,824.—BOOT AND SHOE.—William H. Towers, Boston, Mass.
 88,825.—TOOTH BRUSH. William B. Watkins, Jersey City. N. J.
- City, N. J. 88,826.—LINIMENT.—Wm. W. Wells, Freehold, N. J.

- 88,833.—CARPENTERS' GAGE.—T. E. Barrow, Mansfield, Ohio.
- 88.834.—VISE.—J. D. Beck, Liberty, Pa. 88.835.—PRINTING PRESS.—Henry Betts (assigner to himself
- and Hart Z. Norton), Norwalk. Conn. Antedated April 3, 1869. 88,836.—SELF-ADJUSTING WATCH KEY.—John S. Birch, New ork cit 88.837
- -DIE FOR MAKING AWLS .- James P. Blake, Rock-SS, S37. — DIE FOR MAKING AWLS. — James P. Blake, Rock-ville, Mass.
 SS, OSS. — BREAST COLLAR. — George W. Blakesley, Rock-ford, II.
 SS, S39. — KNIFE SHARPENER. — Charles A. Bogert, Bay City, Mich.

- City, Mich. 88,840.—RING FOR SPINNING MACHINES.—John Booth (as-s gn r to Orville Peckham, trustee, and said trustee assigns to John Booth, and Fales, Jenks, and Sons) Smithfield, R. I. 88,841.—HAND TRUCK FOR SACKING GRAIN ANDMOVING THE SAME.—William Brocklesby, Jr. Caledonia, Ohio. 88,842.—EXTENSION LADDER.—Moses T. Burbank, Law-rence Mass
- rence, Mass
- -GRAIN FAN BLAST.-John Butterworth and William 88.843.-
- 88,843.—GRAIN FAN BLAST.—John Butterworth and William H. Butterworth, Trenton, N. J.
 88,844.—PROCESS AND APPARATUS FOR EXTINGUISHING FIRE BY MEANS OF WATER CHARGED WITH CARBONIC ACID.—Dawson Milles, Cambridge, Mass., administrator of Philippe François Carlier, deceased, and Alphonse A. C. Vignon, Paris, France.
 88,845.—PICKER FOR LOOMS.—A. H. Carroll, Baltimore, Md.
 88,846.—BALING PRESS.—Nathan Chapman, Milford, Mass.
 88,847.—CHURN.—Nathan Chapman, Milford, Mass.
 88,848.—WRENCH.—John Charlton, Newark, N. J.
 90,940. Convention of Construction of Constructin Construction of Constructin Construction of

- 88,849.—GRAIN CONVEYER FOR ELEVATORS.—D. C. Chester, Ogdensburgh, N. T. 88,850.—CIGAR MACHINE.—R. M. Cole, Burlington, Vt. 88,851.—PLOW.—Wm. S. Colwell, Allegheny City, Pa. 88,852.—MODE OF WARMING RAILWAY CARS.—A. C. Crary,
- Utica, N. Y. 88,853.—MAGAZINE FIREARM.—Thomas Cullen, San Francis-

- co, Cal. 88,854.—VAPOR BURNER.—Joseph R. de Mahy and J. P. Cross, New Orleans, La. 88,855.—SASH HOLDER.—D. M. Donehoo, Beaver Court House,
- 88,856.—DEVICE FOR HOLDING EDGE TOOLS WHILE BEING
- GROUND.-P. V. DUOD. Calamus, Wis. Antedated April 5, 1869. 88,857.-MODE OF HANGING AND FASTENING DOORS.-C. N.
- Earl, Elk River, Minn. 88,858.—HORSE RAKE.—Wm. Emmons, Sandwich, Ill. 88,859.—WAGON BRAKE.—O. F. Evans, Guilford, N. Y. 88,860.—FELT SHOE.—Reese Evans, Milltown, N. J.

- 88,861.—EAR BLANK FOR ELLIPTIC SPRINGS.—Wm. Evans, Pittsburgh, assignor to John Evans, Philadelphia, Pa.
 88,862.—COOKING RANGE.—Francis Falls and John P. Hayes, Philadelphia, Pa., assignors to Francis Falls. Antedated Oct. 13, 1868.
 88,863.—HARVESTER PITMAN.—J. R. Finley, Delphi, Ind.
 88,864.—SMOKE STACK FOR LOCOMOTIVE ENGINES.—Lorenzo Fulton. Cincinnati. Ohio.

- Schulz Briten, Chick For Biccouolin's Englishes. Biologic Putton, Cincinati, Ohio.
 S8,865. MACHINE FOR SHAPING HATS.—G. W. Gallagiere, and E. W. Ruby, New Milford, Conn.
 S8,866. FENCE POST.—E. S. Goodrich, Oakland, Wis.
 S8,867. STOVE AND FURNACE. Wm. P. Hall, Piqua, Ohio.'
 S8,868. CULTIVATOR.—J. R. Hand, Billingsville, Ind.
 S8,868. CAPLING MACHINE Adolph Horkel New York city.

- 88,869.—CARVING MACHINE.—Adolph Henkel, New York city. 88,670.—SEED PLANTER.—I. F. Herrin, San Antonia, Texas. 88,871.—STEAM ENGINE.—W. C. Hicks, New York city. An-
- tedated April 1, 1869. 88,872.—VELOCIPEDE.—W. S. Hill, Manchester, N. H. 88,873.—Compound For DESTROYING INSECTS.—Jacob Hinds, Hindsburg, N.Y.
- 88,958.—LASTING TOOL.—Frederick Henderson, Marietta, Ohio, assignor to himself and Isaac Atkinson.
 88,959.—BOLT.—Chas. H. Hopkins (assignor, by mesne assign-ments, to himself and H. A. Alden), Lyndonville, Vt.
 88,960.—SURFACE CONDENSER.—John Houpt, Springfield, Pa.
 88,961.—HARNESS SADDLE.—W. G. Hull, Sing Sing, N. Y.
 88,962.—WAGON BRAKE AND TONGUE SUPPORT.—Abram C. Jacques, Leavenworth, Kansas. Jacques, Le 88,963.—AM -AMALGAMATOR.-Solomon Johnson, San Francisco,

- 88,800.—COMPOSING STICK.—Francis W. Murray, Cincinati, Ohio.
 88,801.—Well-AUGER.—A. A. McMahen, Oxford, Miss.
 88,801.—BOG-CUTTER AND DRAG.—John W. Newton, Geneva, Wis.
 88,802.—WHEELWRIGHT MACHINE.—James O'Connor, Jack88,803.—STILT.—Charles Page and George W. Miller, Meriden George W. Miller, Meriden George W. Miller, Meriden Machine, State S

 - BLANKS.-E S. Pierce (assignor to National Screw Company), Hartford, Conn. 88,901.-APPARATUS FOR ARRANGING AND CONVEYING SCREW
 - BLANKS.-E. S. Pierce (assignor to National Screw, Company), Hartford, Conn.
 - Conn. 88,902.—DEVICE FOR CONNECTING THE PARTS OF MACHINERY. —E. S. Pierce (assignor to National Screw Company), Hartford, Conn. 88,903.—OIL CAN.—Wm. Polyblank, Cleveland, Ohio. 88,904.—CARRIAGE COUPLING.—H. J. Pringle and Wm. Prin-
 - , Columbus, Ohio. 5.—WASHING AND WRINGING MACHINE.—H. O. Redgle, C 88,905.-
 - 88,905.— WASHING AND WRINGING MACHINE.—H. O. Redr-dish, Linden, N. Y.
 88,906.—LET-OFF MECHANISM FOR LOOMS.—Rensselaer Rey-nolds, Stockport, N. Y.
 88,907.—SasH STOP AND LOCK.—Rensselaer Reynolds, Stock-port, N. Y.

 - 8,908.—LOCK NUT.—Almon Roff, Southport, Conn. 88,909.—ELECTRIC ORGAN ACTION.—H. L. Roosevelt, New
 - York city. 88,910.—ADVERTISING FRAME.—W. H. Sadler, and James M. 88,910.—ADVERTISING FRAME.—W. H. Sadler, and James Drysdale, Baltimore, Md.
 88,911.—TABLE CASTER.—A. B. Searles, Providence, R. I.
 88,912.—TABLE CASTER.—A. B. Searles, Providence, R. I.
 88,913.—FANNING MILL.—H. F. Seibert, Brady's Bend, Pa.

 - 88,913.— FAMING BIDL.—H. F. ISDEND, BERN, BERN, OLD.
 88,914.—COOKING STOVE.—W. G. Semple, Cincinnati, Ohio.
 88,915.—CULTIVATOR.—J. B. Sexton (assignor to himself and J. L. Andrew), Pella, Iowa.
 88,916.—POTATO DIGGER.—Isaiah Shaw, Four Corners, Md. Antedated March 15, 1869.
 88,917.—MOP HEAD.—Emile Sirret and E. G. Sirret, Buffalo, N. V.
- 88,826.—LINIMENT.—Wm. W. Wells, Freehold, N. J.
 88,827.—MANUFACTURE OF PAPER BOXES FROM PULP.—Seth Wheeler and Edgar Jerome. Albany, N. Y.
 88,828.—GATE.—A. D. Wilcox, Manlius, N. Y.
 88,829.—JUG TOP.—Homer Wright (assignor to himself, Henry H. Collins, and Benjamin F. Collins), Fittsburgh, Fa.
 88,830.—MANUFACTURE OF CHEESE.—J. W. Andrews and N.
 88,831.—STEP LADDER.—E. R. Austin, Elmira, N. Y.
 88,832.—SLED BRAKE.—S. W. Barber, Heath, Mass.
 88,833.—CARPENTERS' GAGE.—T. E. Barrow, Mansfield, Ohio.
 88,833.—CARPENTERS' GAGE.—T. E. Barrow, Mansfield, Ohio. N. T.
 N. T.
 S8, 918.—SECURING KNOBS TO THEIR SHANKS.—T. J. Sloan, New York city.
 S8, 919.—SECURING KNOBS TO THEIR SHANKS.—T. J. Sloan, New York city.
 S8, 920.—TOOL FOR SHAVING THE EDGES OF THE SOLES OF DOOTS AND SHORE.—Thomas Smiley, Albia, Lowa.
 S9, 921.—FOLDING MILKING SEAT.—Selden Snow, Somers, Cona.
 S9, 922.—BROOM HEAD.—W. C. Spellman, Baltimore, Md.
 S8, 922.—COTTON GIN.—R. W. Stough, Griffin, Ga.
 S8, 924.—COTTON GIN.—R. W. Stough, Griffin, Ga.
 S8, 926.—COMPOUND FOR FILLING THE PORES AND COATING Woodo.—Horace Thayer, Johnsonburg, N.T.
 S8, 927.—APPARATUS FOR RAISING BEER.—J. L. Treat, New York city.
 S8, 928.—CONSTRUCTION OF BURGLAR-PROOF SAFES.—J. Weit mar. New York city.
 S8, 929.—STEAM POWER BREAK DEVICE.—Geo. Westinghouse, Jr., Schenetcady, N.Y.
 S8, 929.—STEAM POWER BREAK DEVICE.—Geo. Westinghouse, Jr., Schenetcady, N.Y.
 S8, 929.—STEAM POWER BREAK DEVICE.—Geo. Westinghouse, Jr., Schenetcady, N.Y.
 S8, 933.—STOP VALVE FOR STEAM AND OTHER ENGINERY.— B.F. Wilson, Geddes, N.Y.
 S8, 936.—STOP VALVE FOR STEAM AND OTHER ENGINERY.— B.F. Wilson, Geddes, N.Y.
 S8, 936.—STOP VALVE FOR STEAM AND OTHER ENGINERY.— B.F. Wilson, Geddes, N.Y.
 S8, 936.—STOP VALVE FOR STEAM AND OTHER ENGINERY.— B.F. Wilson, Geddes, N.Y.
 S8, 936.—STOP VALVE FOR STEAM AND OTHER ENGINERY.— B.F. Wilson, Geddes, N.Y.
 S8, 936.—STOP VALVE FOR STEAM AND OTHER ENGINERY.— B.F. Wilson, Geddes, N.Y.
 S8, 936.—SEWING MACHINE.—UW. W. Wilson, Geneva, Wis.
 S8, 936.—STOP VALVE FOR STEAM AND OTHER ENGINERY.— B.F. Wilson, Geddes, N.Y.
 S8, 936.—SEWING MACHINE.—UW. W. Wilson, Geneva, Wis.
 S8, 937.—CLOTHES DRYEE.—Louis Winterhalder and David Wilson New York city,

88,931.—HARROW.—B. B. Williams, Laclede, Mo.
88,932.—SASH HOLDER.—B. F. Wilson, Geddes, N. Y.
88,933.—STOP VALVE FOR STEAM AND OTHER ENGNERY.— B. F. Wilson, Geddes, N. Y.
88,934.—STOP VALVE FOR STEAM AND OTHER ENGINERY.— B. F. Wilson, Syracuse, N. Y.
88,935.—WASHING MACHINE.—W. W. Wilson, Geneva, Wis.
88,936.—SEWING MACHINE.—Wm. Winter, Leeds, England, 88,937.—CLOTHES DRYER.—Louis Winterhalder and David Wilson, New York city.

Wilson, New York city. 88,938.—DRIVE WHEEL FOR HARVESTERS.—W. A. Wood, Hoosick Falls, N. Y. 88,939.—MODE OF ROASTING IRON ORES.—Henry Aitken,

strong, Jr., Elmira, Ill. 88,941.—MODE OF PURIFYING IRON.—Ed. Brady, Philadelphia, 88,942.—FINGER SHIELD FOR PENMEN.—Chas. N. Brainerd,

88,942.—FINGER SHIELD FOR FEMMEN.—Chas. IV. Diamera, Hartford, Conn.
88,943.—SHINGLE MACHINE.—Merrill Chase, Jr., and Horace J. Morton (assignor to themselves and F. C. Merrill), South Paris, Me.
88,944.—DEVICE FOR ADJUSTING AND HANGING CARRIAGE BODIES.—J. D. Cole, Phelps, N. Y.
88,945.—HAY LOADER.—Emmett Coopor, Theresa, N. Y.
88,946.—BASE-BURNING STOVE.—D. B. Cox, Troy, N. Y.
88,947.—APPARATUS FOR EXHIBITING HYMNS, ETC.—H. V. Edmond Newlich Conn.

Edmond, Norwich, Conn. 88,948.—MATERIAL FOR CARTRIDGE CASES.—Alfred B. Ely,

88,952.—TRACE BÜCKLE.—Kasson Frazer, Syracuse, N. Y.
88,953.—BULDING.—W. J. Fryer, Jr., New York city.
88,954.—BUGGY AND WAGON TOP.—Gustav Fuchs (assignor to himself and J. E. Wehr), Milwaukee, Wis.
88,955.—DUMPING WAGON.—T. H. Gary, Bristol, Md.
88,956.—LET-OFF MECHANISM FOR CARRIERS FOR BRAIDING MACHINE.—Thomas Greenhalpt (assignor to himself and A. L. Holgate), Raritan, N. J. Antedated April 5, 1869.
88,957.—CHURN DASHER.—W. J. Hale, Ashley, Ill.
89,958.—LASTING TOOL.—Frederick Henderson, Marietta,Ohio, assignor to himself and Isaac Atkinson.

Falkirk, Scotland. 188,940.—GUARD ATTACHMENT FOR CULTIVATORS.—Jas. Arm-strong, Jr., Elmira, Ill. --Elli

88,874.—ADJUSTING FEED ROLLERS FOR CARDING ENGINES. -Lysandur Holmes, Newton, Mass.	88,964.—BLAST HEATING APPARATUS FOR SMELTING FUR-	above patent. Day of hearing, June 21, 1869.
88,875.—BRAN DUSTER.—Stephen Hughes, Hamilton, Ohio. 88,876.—MECHANISM FOR TRANSMITTING MOTION.—C. C. Hull, Williamsburgh, N. Y.	88,965.—O.X. Kent, Phillipsburg, N. J. 88,965.—O.X. YOKE.—Emmaus Knowlton, Stockbridge, and S. F. Smith, Royalton, Vt.	SELF-ADJUSTING WIND MILL.—Addison P. Brown, of Syracuse, N.Y., has petitioned for the extension of the above patent. Day of hearing, June 1, 1960.
 88,877.—COMPOSITION FOR ARTIFICIAL STONE.—C. B. Hutchins, Ann Arbor, Mich. 88,878.—MILE PAN.—B. F. Jewett, North Bangor, N. Y. 88.879.—TREATING WOOD FOR THE MANUFACTURE OF PA- 	88,966.—STAIR ROD.—Moritz Krickl (assignor to H. Uhry), New York city. 88,967.—MELODEON ATTACHMENT FOR PIANOFORTES.—La Fayette Louis, New York city.	LOONS -S T Thomas of Gilford N H, has applied for an extension of
PER PULPV. E. Keegan, Boston (Southern District), Mass. 88,880.—THRESHING AND SEPARATING MACHINE.—J. W. M.	88,968.—LAMP.—Louis Mangeon, New York city. 88,969.—SASH STOP.—W. J. Manker and A. T. Manker, In- dianapolis.Ind.	LOOMSS. T. Thomas, of Gilford, N. H., has applied for an extension of the above patent. Day of hearing June 21, 1869.
Kirkpatrick, Hamburg, Ars. 88,881.—NURSING TABLE.—Jeremiah Larkin, Unionville,S. C. 88,882.—SCREW THREADING MACHINE.—W. J. Lewis, Pitts-	88,970.—PIANOFORTE.—Theo. Marschall, New York city. 88,971.—SEED SOWER AND PLANTER.—E. G. Matthews, New-	SPRING-BED BOTTOM.—Hiram Tucker, of Newton, Mass., has applied for an extension of the above patent. Day of hearing June 21, 1869.
burgh, Pa. 88,883.—PASTRY CUTTER AND CRIMPER.—W. R. Marie, Bos- ton, Mass., assignor to T. A. Mitchell, Washington D. C.	ton, assignor to F. F. Holbrook, Dorchester, Mass. 88,972.—SHEET-METAL LATHE MACHINE.—Edwin May, In- dianapolis, Ind. 88,973.—SALVE FOR CURE OF FOOT-ROT IN SHEEP.—John	SAND-PAPER CUTTING MACHINEWilliam Adamson, of Philadelphia, Pa., has petitioned for an extension of the above patent. Day of hearing, June 21, 1869.
88,884—ATTACHING HOES TO THEIR HANDLES.—J. A. Marine (assignor to himself and A. T. Manker), Mooresville, Ind. 88,885.—MACHINE FOR MAKING SHEET-METAL SCREW CAPS. –J. L. Mason, New York city.	McDowell, Buffalo township, Pa. 88,974.—COMBINED KNOB-LATCH AND LOCK.—John McLeod, San Francisco, Cal.	METHOD OF RAISING AND LOWERING THE CUTTERS OF HARVESTERS Jonathan F. Barrett, of North Granville, N. Y., has petitioned for the ex- tension of the above patent. Day of hearing, June 21, 1869.
 88,886.—MANUFACTURE OF SHEET-METAL SCREW CAPS.—J. L. Mason, New York city. 88,887.—RUBBER HOSE, OR TUBING.—T. J. Mayall, Roxbury, Mass. 	88,975.—STENCIL IMPRESS.—G. V. Metzel, Baltimore, Md. 88,976.—INKING APPARATUS FOR COLOR PRINTING.—Thomas Moore and P. H. Day, Bloomington, Ill. 88,977.—FOLDING BEDSTEAD.—John Muller, Philadelphia,	MACHINE FOR MAKING BOLTSWilliam E. Ward, of Portchester, N. Y., has petitioned for an extension of the above patent. Day of hearing, June
 88,888.—MANUFACTURE OF RUBBER HOSE OR TUBING.—T. J. Mayall, Roxbury, Mass. 88,889.—VELOCIPEDE.—F. W. McCleave, New Bedford, Mass. 88,890.—BREECH-LOADING FIREARM.—John McGoveren, New 	Pa. 88,978.—PROCESS OF PURIFYING PETROLEUM.—C. C. Parsons, New York city. 88,979.—TRUSS PAD.—E. C. Penfield, Philadelphia, Pa.	LANTERNS.—Charles Waters, of Poughkeepsie, N. Y., has petitioned for the extension of the above patent. Day of hearing June 28, 1859. SHIP'S WINCHES.—Peter H. Jackson, of New York city, has petitioned to r
York city.	88,980.—POWER HAMMER.—T. T. Prosser, Chicago, Ill.	the extension of the above patent. Day of hearing, July 19, 1869.