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Answers to Correspondents.

CORRESPONDENTS who expect to receive answers to their letter's must, in all cases, so their names. We have a right to know those who seek in-formation from us; besides, as sometimes happens, we may prefer to an dress correspondents by mail.

SPECIAL NOTE .- This column is designed for the general interest and in struction of our readers, not for gratuitous replies to questions of a purely business or personal a curve. We will publish such inquiries, houever, when puid for as advertisements at 100 a line, under the head of "Business and Personal. All reference to back numbers should be by volume and page.

A. S. W., of Ca.-Evidently your chimney is not of sufficient capacity for your boiler furnace. Undoubtedly the cheapest way in the long run will be to increase the hight of the chimney by masonry, not by a 11-inch pipe, as proposed, in one corner of the chimney. Such a pipe would reduce the sectional area of the chimney flue, now 400 square inches, to 95 square inches. We consider the area of 400 square inches small enough for your boiler. The best thing for you to do is to get a competent engineer to calculate for you the proper dimensions of the chimney, and correct its deficiencies under his direction

A G. G., of N. Y., wishes to know the correct spelling of the name of the frame which supports the step and spindle of a flouring-mill stone. He says it is spelled by different people, "Hearsh," "Hurst," and "Husk." We answer that the latter spelling is correct, and that the word is pronounced as spelled, "Husk."

B. B. D., of N. Y., wants to know if imperfectly glazed earthenware bottles may be rendered so tight by the use of water glass that they will not leak under the pressure of fermentation when holding root beer?-The beeris put into the bottles while hot. As water glass is dissolved in hot water, this substance will not answer the purpose. Perhaps some of our correspondents may have met with a similar difficulty, and found a good way to remedy it.

H. L., of Wis.-The scale which adheres to the inside of teakettles is difficult to remove without injury to the kettle. There are no acids we can recommend for the purpose. It may often be mechanically removed by tapping the outside of the kettle with a hammer. Sometimes boiling oak bark, or slippery elm bark in the kettle will start the scale More often, however, it resists removal, except by chipping with a pointed steel instrument-a tedious operation.

F. E. M., of Pa.-The explanations you seek comprise a some what extensive course of reading. They cannot be made in our columns. They cover nearly the whole fundamental basis of mechanics and physics. For enlightenment you should peruse some able treatises on celestial and terrestrial physics and mechanics.

D. P. R., of Mo.-Colza oil is a general commercial name employed in France, Belgium, etc., for the oil manufactured by expression from the seeds of different species of *Brassica*, and has there the samesig-nification as "rape oil" in England. "Colza"koolzaad, means cole or cabbage seed. "Colza" is the French name for "rape seed."

L. V. R., of N. Y .- A "noggin" is a wooden cup or mug of no definite capacity. We do not recollect everseeing it used in any work as a definite measure, though it would seem that it has been, since the treatise on dyeing, of which you speak, so uses it. We are informed that in Ireland it is a measure of one gill.

R. S., of Pa.-The gas issuing from the spring you describe is undoubtedly sulphureted hydrogen. You can test it by holding over the spring a piece of paper wet with solution of acetate of lead. If suppureted hydrogen be present it will turn the paper black.

W. J. H., of Ind.-Directions for softening water for manufacturing purposes, may be found on page 217, Vol. XX1., of the SCIENTIFIC AMERICAN, and in any good and complete treatise on dyeing.

N. A. H., of Ca., has tried several recipes for covering the soles of boots with rubber without success. He now appeals to our correg spondents for information. If any have been successful we shall be happy to publish their method.

- S. R. V., of Tenn.-A preparation for marking the glossy black letters used on show cards, and highly recommended, is lamp black, from which the oil has been removed by roasting, mixed with whites of eggs.
- L. M., of N. Y.-The words upward and downward, when applied to direction, mean away from or toward the earth's center, in radial lines. It is obvious, therefore, that up or aown, is not precisely the same direction for any two persons on the earth's surface.

W. P. D., of Vt.-The smell of petroleum is very difficult to gremove from barrels which have contained it. We know of no method whereby you can accomplish it.

D. L. M. of Va.-The pressure of a vertical shaft and its appurtenances upon the step, is just the same while revolving, as when at rest.

C. L. P., of Minn.-Temper your brass plates for springs by hammering them cold. You can give elasticity to the softest brass in this

D. T. D., of R. I.-The notion that a given head of water will drive a wheel faster in the night than in the daytime, is a mistaken one.

L. P. W., of La.-The plates upon which music is engraved are made of 90 parts block tin, and 10 parts antimony.

PEPPER SAUCE,-E. McIlhelmy, New Iberia, La.-This invention relates to a new process of preparing an aromatic and strong sauce from the pepper known in the market as Tobasco pepper.

SHUTTER BAR.-Julius Berbecker, New York city.-This invention relates to a new construction of the shutter bars or fastenings used on inside shut ters.

WASHING MACHINE .- E. S. Harper, Sutherland Springs, Texas.- This invention has for its object to furnish an improved washing machine, which shall be simple in construction, effective in operation, and easily operated, and which will not injure the clothes.

MOUSE TRAP.-W. K. Bachman, Columbia, S. C.-This invention has for its object to furnish an improved mouse trap, which shall be simple in construction, not liable to get out of order, easily se and reliable in operation.

OYSTER TONGS .- Edward Ward, Smyrna, Del.-This invention relates to a new and useful improvement in tongs for taking oysters from the water, and consists in such a construction and arrangement of parts that the tongs are opened and closed by means of cords.

MELODEANS .- J. C. Briggs, Ansonia, Conn.- The object of the present inventionis to provide for a more even motion of the valve in an expression chamber, and not to allow the sudden violent movements of the same which are produced if the air only acts on one side of the pivot.

HORSE HAY RAKE.-G. E. Carleton, Oldtown, Me .- This invention has for its object to improve the construction of horse hay rakes, so that the rake may be raised to discharge the collected hay by the advance of the machine.

WHEAT STEAMER AND DRYER .- C. T. Hanna, Keokuk, Iowa .- This in vention has for its object to furnish an improved apparatus for steaming and drying wheat to soften it preparatory to grinding, which apparatus shall be simple in construction, effective in operation, and easily applied.

HEMMER.-Abel H. Bartlett, Spuyten Duyvil, N. Y.-This invention relates to improvements in that class of hemmers for sewing machines which are designed for making hems of different widths, and which are attached to the presser foot.

STEM-WINDING ATTACHMENT FOR WATCHES .- Fritz Robert Theurer Chaux de Fonde, Switzerland,-This invention relates to improvements in attachments to watches for winding and setting them by turning the stem, and consists in an improved arrangement of means having for its object, mainly, to provide an apparatus which may be applied to watches already made, as well as to those being made.

ELEVATORS .- Theo. H. Rudiger, Lawrence, Kansas .- This invention relates to improvements in elevators, and consists in arranging the spout on to which the articles elevaied by the buckets are dumped, so that previous to the dumping the upper end will swing back under the bucket, so as to ensure the receiving of all the contents of the bucket, and then swing out of the way of the downward movement of the bucket in time to let it pass without obstruction.

WAGON SEATS .- C. E. Hollenbeck, Kirkville, Mo .- This invention relates to improvements in the detachable spring wagon seats, used by placing them on the tops of the sideboards of the wagon boxes, or on cleats or ribs attached to the sides. The invention consists in an improved construction and arrangement of the springs.

WIFING ATTACHMENTFOR FEED ROLLERS .- Lyman Crawford, Holyoke Mass.-This invention relates to improvements in wiping apparatus for the feed rollers of carding machinery, and consists in a combination with the rollers of wiping plates, one placed above the upper rollers, and another below the lower ones, each plate, having a concave face, to be provided with a wiping cloth, acting on the surface of the roller; also, a slot behind the wiper, through which the substance wiped from the said rollers, and collecting in masses, may escape or be removed, and the lower wiping plate is provided with a guard or scraper plate, arranged in conjunction with the lower roller to prevent any large collections of waste from being carried up by the said roller to the sliver.

DUMPING CAR.-Ed. C. Hegeler, La Salle, Ill.-This invention relates to improvements in dumping cars, and consists in arranging the boxes with one side, or end, as the case may be sloping from about the center of the bottom upward, and providing the sloping side with rockers, on which the box, in tilting, will roll towards the edge for dumping, instead of tilting on hinges, as heretofore. The said rockers are provided with flanges, to keep them on the rails whereon they roll, and they have chains attached to their ends, and to the truck frame, in a way to prevent them from sliding on the rails they roll upon.

| FURNACE GRATE.-Abraham L. Pennock, Upper Darby, Pa.-This invention relates to a new and useful improvement in grate bars for furnaces, whereby they are made cheaper, more useful, and more durable than they have heretofore been, and it consists in locking the bars together by means of locking pins running through, and at right angles with the bars, the said locking pins having notches for holding the bars, by means of which the distance of the bars apart may be varied so as to adapt the grate to either coarse or fine coal.

COTTON-SEED PLANTER.-Fletcher Sloan, Bolivar, Tenn.-This invention has for its object to furnish an improved cotton-seed planter, simple in construction, and effective in operation, and which shall be so constructed that it may be readily adjusted for planting corn, peas, and other seeds, and for distributing guano and other fine fertilizers

PLOW.-David Morris, Bunker Hill, Ill.-This invention has for its object to improve the construction of plows in such a way as to enable the beam to be adjusted laterally to adapt the plows for use as a two or three-horse plow, as may be required, and which shall, at the same time, be simple in construction and effective in operation, holding the beam securely how ever adjusted.

ATTACHING DRAFT TO PLOWS, ETC .- George W. Kidwell, Elwood, Ind .-This invention has for its object to furnish an improvement in attaching draft to plows, harrows, reapers, mowers, and other machinery where the draft is attached by means of a clevis, which shall be so constructed that should the plow or other machine strike a stone or other obstruction. the horses will be keptfrom being injured and the machine from being broken by the sudden shock, and which will enable the line of draft to be adiasted to cause the plow to cut a wideror narrower furrow, as may be desired.

Official List of Batents.

Issued by the United States Patent Office

FOR THE WEEK ENDING Sept. 27, 1870.

Reported Officially for the Scientific American

SCHEDUME OF LATENT OFFICE FEES

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On filing each appneation for a Patent (seventeen years)
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a reasonable cost, the price depending upon the case, may be had by as areas the number of visios. Fill information us to price of drainings, in each case, may be had by as areas ing MUNN & CO., ing Passar Solicitors. No. 37 Park Row, New York

107,646.—PULLEY FOR GATES.—Ephraim S. Axtell, Macomb

107,647.—MOUSE TRAP.—William K. Bachman, Columbia,

- s. C. 107,648.—TRUSS.—Sir William Baker, Austin, Texas. 107.649.—METALLIC ROOF.—William M. Barry, Nashville,
- 107,650.-HEMMER FOR SEWING MACHINES.-A. H. Bartlett, Spuyten Duyvil, N. Y. 107,651.—SHUTTLE FASTENING.—Julius Berbecker, New York
- 107,652.-WASHING MACHINE. John T. Bever, Lathrop,
- Mo. 197,653.—TOOL FOR CUTTING WOOD MOLDINGS.—Charles E. Boynton (assignor to himself and Isaac N. Vosburg), San Francisco,
- Cal. 107,654.—Machine for Cutting Material for Baskets.---
- L. H. Bridgeman, Rock Stream, New York. 107,655.—MELODEON.—J. C. Briggs, Ansonia, Conn. 107,656.—COUPLING JACK.—H. A. Brown and E. B. Keith,
- Galesburg, Mich. 107,657.—FLUTING MACHINE.—Samuel G. Cabell, Washing-ton, D. C. 107,658.—Ageing Spirits.—Andrew Caldwell, Lexington,
- Ky. 107.659.—FLOOD GATE.—John Campbell and Addison Wat-
- son. London, Ohio. 107,660.—HORSE HAY RAKE.—Guy E. Carleton, Old Town,
- -WASH STAND AND TANK .- H. W. Catlin, Burling-107,661.-
- ton, Vt. 107,662.—STALK CUTTER,---Martin Caywood, Peoria, III.

107,663.—Mode of Inserting Glass in Vault Lights.-Zenas Cobb, Chicago, Ill. 107,664.—TIN ROOFING.—Benjamin Coddington, La Fayette,

107,665.—BLOWER.—W. S. Colwell, Pitisburgh, Pa

107,666.-Roller For Sewing Machines.-R. W. Courts.

- Russellville, Ky. 107,667.—WIPING APPARATUS FOR FEED AND OTHER ROLL-ERS.—Lyman Crawford, Holyoke, Mass. 107,668.—CARRIAGE GEARING.—Cornelius Custer, Norristown,
- Pa. Antedated Sept. 17, 1870. 107.669.—JOINTED OAR.—Christian Dann, La Crosse, Wis.
- 107.609.—JOINTED OAR.—CURISTIAN DANN, LA CROSSE, WIS. 107.670.—MACHINE FOR SHAPING THE HEADS OF HORSE-SHOE NAILS.—NORMAN DEXTO, BOWER HILL, PARK DOUG-107.671.—BLIND-SLAT TENONING MACHINE.—Frank Doug-lass. Norwich, Conn. 107.672.—PENCIL CASE.—Charles H. Downes, Hudson City
- N. J. 107,673.—EGG BEATER.—Timothy Earle, Valley Falls, Smith-
- field, and Gilbert K. Dearborn, Fawincket, R. I., assignors, by r assignments, to Thuchy Earle and E. D. Goodrich, Boston, Mass. 107,674.—KNIFE SCOURER.—H. E. French, Unity, N. H.
- 107,675.-MACHINE FOR SAWING MARBLE.-J. E. French and
- J. M. Stephenson, Pendleton, Ind. 107.876.—Prow. David Fulton, St. Helena, Cal. 107.677.—SEWING MACHINE.—Charles W. Godown, Lambert-
- ville, N. J. 107.678.—MACHINE FOR JOINTINS STAVES.—S. S. Gray, Bos-
- ton, Mass. 107.679.—EAR RING.—Gottfried Haberland. Bloomington, Ill. 107.680.—WHEAT STEAMER AND DRIER.—Cyrus T. Hanna,
- Keokuk, Iowa. 107,681.—WASHINO MACHINE.—Elijah S. Harper, Sutherland Springs, Texas. 107,682.—CARPET LINING.—J. R. Harrington (assignor to G.
- ⁶. Harrington), Brooklyn, N. Y. 107,683.—DUMPING CAR.—E. C. Hegeler (assignor to F. W Mathiesson & Hereler), La Salle, II. 107,684.—WAGON SEAT.—Charles F. Hollenbeck, Kirkville,
- Mo. 107,685.—CHAIR AND FURNITURE TIPS.—Francis H. Holton.
- 107,680,—ODATA AND FORMITORE AND FORMITORE AND TROUBLE TO BROOKLYN, N. Y.
 107,686,—APPARATUS FOR PREPARING PARCHMENT OR WATTER-PROOF PAPER.—E. P. Hudson, New York city, assignor to New York Water-proof Paper Co., New York city, assignor to New York Water-proof Paper Co., New York city, assignor to New York Water-proof Paper Co., New York city, assignor to New York Water-proof Paper Co., New York city, assignor to New York Water-proof Paper Co., New York city, assignor to New York Water-proof Paper Co., New York city, assignor to New York Water-proof Paper Co., New York city, assignor to New York Water-proof Paper Co., New York city, assignor to New York Water-proof Paper Co., New York city, assignor to New York Water-proof Paper Co., New York city, assignor to New York Water-proof Paper Co., New York city, assignor to New York Water-proof Paper Co., New York city, assignor to New York Water-proof Paper Co., New York city, assignor to New York Water-proof Paper Co., New York city, assignor to New York Water-proof Paper Co., New York city, assignor to New York Water-proof Paper Co., New York City, assignor to New York Water-proof Paper Co., New York City, assignor to New York Water-proof Paper Co., New York City, assignor to New York Water-proof Paper Co., New York City, And 107,688.—BALING PRESS.—Wm. Iler, Shreveport, La.
- 107,689.-METHOD OF PRESERVING FRUIT. Geo. Jaques, ston, Mas
- 107,690.—COMPOSITION OF MATTER FOR PRESERVIN• FRUITS FROM DECAY.—Geo. Jaques, Boston, Mass. 107,691.—SASH HOLDER.—William F. Kells, San Francisco
- 107,692.—ATTACHING DRAFT TO PLOWS.—G. W. Kidwell, El-
- EARRINGS, DROPS, ETC.-Gottfried Haberland, Bloomington, 111.-The 107,693.-CHEWING GUM.-Weston W. Kilbourn, Sanford,

	object of this invention is to so construct earrings and drops that the	N. Y.
Berent American and Foreign Latents.	same may be applied without requiring the perforation of the lobes. The	107,694.—CHIMNEY ATTACHMENT.—A. H. Lanphear, Atchison,
Under this heading we shall publish weekly notes of some of the more prom- inent home and foreign patents.	invention consists in constructing the earring in form of a spring which will retain itself on the ear by spring pressure ; the application and remov-	107.695.—HAY ELEVATOR. — James Linderman, Bullville,
	al of earrings and drops is thereby considerably facilitated. MANUFACTURE OF HYDROCARBON OILSWilliam Spears, Jamestown, N.	N.Y. 107.696.—HEATING STOVE. — Adolphus Lotze, Cincinnati,
WASHER CUTTERPatrick McCormick, Newark, N. JThis invention	Y.—The object of this invention is to produce a highly valuable hydrocar- bon oil or liquid for illuminating or other purposes, from the products of	Ohio. 107,697.—VALVE COCK. — John C. Macdonald, St. Louis
has for its object to provide an instrument by means of which two or more concentric washers can at once be cut from one piece, and their size regu- ated at will.	distillation in the process of manufacturing oils from crude petroleum,	107.698.—POTATO DIGGER.—George M. Marks, Half Moon,
	and consists in uniting (by the application of heat) the first and most volatile product of distillation (benzine) with the refuse tar, thereby form-	107,699.—LAMP BRACKET. — Riverius Marsh, New York
CURTAIN FIXTUREW. P. Yates, Elmira, N. YThis invention relates	ing a compound from which a highly valuable oil is distilled. VALVE COCKJohn C. Macdonald, St. Louis, MoThis invention has for	107,700WASHER CUTTERPatrick McCormick, Newark,
to a new and useful improvement in curtain fixtures, having particular reference to the mode of revolving the cutter roller, and consists in so ap-	its object to improve the construction of valve cocks so as to enable them	107,701.—PEPPERSAUCE.—Edmund McIlhenny, New Iberia,
plying the power to the roller that a variable purchase is obtained, and so that at one point in each revolution the curtain will balance the spring.	to be ground to their seat at any time when necessary without removing them from their fittings, and, at the same time, to have a true working	107,702.—FRICTION LOCOMOTIVE.—T. S. Minniss, Meadville,
Lock NutJames Moorcroft, Newport, R. IThis invention relates to a	guide while being re-ground.	Pa. Antedated Sept. 17, 1870. 107,703.—GRAIN-BINDING ATTACHMENT FOR HARVESTERS.—
new manner of locking a nut by applying it to the split end of a bolt, to- gether with a conical screw for expanding said bolt within the nut, where	Cayents are desirable if an inventor is not fully prepared to apply for a	T. S. Minniss, Meadville, Pa. Antedated Sept. 17, 1870. 107,704.—NUT LOCK.—James Moorcroft, Newport, R. I.
by the nut will be securely fastened.	patent. A Caveat affords protection for one year against the issue of a	107,705.—PLOW.—David Morris, Bunker Hill, Ill. 107.706.—SCAFFOLD BRACKET.—Charles Mudge, Ovid, Mich
, METALLIC ROOFW. M. Barry, Nashville, TennThis invention relates to a new and useful improvement in the construction of roofs for railroad	patent to another for the same invention. Patent Office fee on filing a Caveat, \$10. Agency charge for preparing and filing the documents from	Antedated Sept. 17, 1870. 107,707.—WASHING MACHINE. — Abraham Mutersbaugh.
and other purposes, whereby many of the objections which have hitherto	\$10 to \$12 Address MUNN & CO., 37 Park Row , New York.	Lewinsville, Va.
been met with in the construction of roofs are obviated.	CRCY SUBSCRIBERS The SCIENTIFIC AMERICAN will be	107,708.—FOLDING CHAIR.—Julius Nicoli, Boston, Mass. 107,709.—CORN PLOW AND PLANTER.—H. C. Osborn, Clark
JOINTED OARC. Dann, La Crosse, WisThe object of this invention is o provide an oar which can be operated by a person facing the bow of a	delivered in every part of the city at \$3:50 a year. Single copies for sale at all the News Stands in this city, Brooklyn, Jersey City, and Williams-	county, Ohio. 107,710.—DITCHING MACHINE.—Jason C. Osgood, Troy
at.	burgh, and by most of e News Dealers in the United States.	N. Y

MAKING STEEL .- John Neville, of Brooklyn, N.Y., has petitioned for the

itioned for an extension of the above patent. Day of hearing Nov. 23,1870 MACHINE FOR GRINDING SAWS .- Edmund Andrews, Williamsport, Pa.

has applied for an extension of the above patent. Day of hearing Nov. 30

MODE OF SECURING SPRINGS IN UPHOLSTERY .- Wendell Wright, Bloomfield, N. J., has applied for an extension of the above patent. Day of hear.

MACHINERY FOR WEAVING SHADE CORD .- Thomas Nelson, Troy, N. Y. has applied for an extension of the above patent. Day of hearng Nov. 30,

MACHINERY EOR GRINDING PAPER PULP .- Joseph Kingsland, Jr., Franklin, N. J., has petitioned for an extension of the above patent. Day of hear

Loom .- Benjamin G. Dawley. North Providence, R. I., haspetitioned for an extension of the above patent. Day of hearing Dec. 7, 1870.

New Patent Law of 1870.

41400-12-1

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ropcan Patent Agency is that the practice has been tenfold greater than that of any other agency in existence, with the additional advantages of having the aid of the highest professional skill in every department and a Branch Office at Washington, that watches and supervises cases when necessary, as they pass through Official Framination.

extension of the above patent. Day of hearing Nov. 23, 1870. MACHINE FOR FORGING IRON .- Silas S. Pulman, Neponset, Mass., has

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- 107.711.—TREATING TIN SCRAP FOR THE MANUFACTURE OF STANNATE OF POTAGE, BTC.—Adolph Ott, New York city. 107.712.—FURNACEFORSMELTING SCRAP IRON.—Adolph Ott, New York city. 107.713.—TANNING.—C. F. Panknin, Charleston, S. C. 107.796.—PLANTER AND DISTRIBUTOR.—Duncan McKellar, ^t
- New York city. 107,713.—TANNING.—C. F. Panknin, Charleston, S. C.

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- 107,714.—IRONING MACHINE.—C. F. Parker, Greenfield, as-signor to Joseph Parker, Goothope, Ohio. 107,915.—FURNACE GRATE.—A. L. Pennock, Upper Darby,

- 107,722.—COVER FOR STOVEPIPE HOLES.—Jos. A. Reed, biladelphia, Pa. 107,723.—STEAM ENGINE.—W. F. Richardson, Pittsburgh,
- 107.724.—HINGE FOR SCHOOL DESKS.—A. E. Roberts, Des
- Molnes, Iowa. 107,725.—TWEER.—Joseph Rogers, Detroit, Mich. 107,726.—ELEVATOR. -- Theodore H. Rudiger, Lawrence,
- 107,727.-HORSE-DETACHING DEVICE.-Anton Schmitt, Cin-

- 107,727.—HORSE-DETACHING DEVICE.—Intel and a comparison of the second se
- 107,731.—METALLIC TUBING.—C. G. Smith, Chelsea, assignor to American Metallic Tubing Co., Boston, Mass. 107,732.—BEEHIVE.—Jonathan L. Smith, Liberty Centre,
- 107,733.-SAW SET.-Wm. A. Smith, Dresserville, N. Y

- 107,734.—MANUFACTURE OF HYDROCARBON OILS.—William Spears, Jamestown, N. Y.
 107,735.—KILN.—P. C. Taylor, San Antonio, Texas.
 107,736.—STEM-WINDING AND SETTING ATTACHMENT TO WATCHES.—F. R. Theurer, Chaux De Fond, Switzerland.
 107,737.—VAPOR BURNER.—Wm. Thompson, Cleveland, assignor to himself, Jeremiah S. Bollman, and M. H. Kline, Mansfield, Ohio.
 107,738.—SNAPPED CURER. Lub. T. T.
- 107,738.—SNAPPER CLEAT.—John T. Thompson, Southport.
- Mc. 107.739.—LUBRICATOR.—Ernest Von Jeinsen, San Francisco,
- 107,740.-OYSTER TONGS.-Edward Ward, Smyrna, Del. 107.741.-VAPOR BURNER.-Henry Wellington, Chicago,
- 107,742.—BRUSH.—John L. Whiting, Boston, Mass

- 107,742.—BRUSH.—John L. Whiting, Boston, Mass.
 107,743.—GAS CARBONIZING ATTACHMENT FOR STREET AND OTHER LIGHTS.—Samuel Whitney, Newark, N. J.
 107,744.—FASTENING FOR NECKTIE.—W. A. Wicks, Baltimore, Me.
 107,745.—MILL PICK.—S.* G. Williams, Trumansburg, N. Y.
 107,746.—AUTOMATIC CUT-OFF FOR STEAM ENGINE.—D. A. Woodbury, Rochester, N. Y.
 107,747.—CURTAIN FIXTURE.—William P. Yates, Elmira, N.Y.
- 107,748.—STEAM ENGINE CONDENSER.—Harrison Anderson,

- 107,748.—STEAM ENGINE CONDENSER.—Harrison Anderson, Peoria, III.
 107,749.—KNIT FABRIC.—C. J. Appleton (assignor to himself Earl L. Stimson, and S. E. Stimson, Coroes), N. Y.
 107,750.—KNITTING MACHINE.—C. J. Appleton (assignor to himself, Earl L. Stimson, and S. E. Stimson, Cohoes), N. Y.
 107,751.—FEEDING DEVICE FOR CARDING MACHINES.—J. W. Barbour, Winooski Falls, Vt., assignor to himself and William Earl, Nashna, N. H.
 107,752.—POLLED SHEET IRON.—Silas Barker and Henry S. Pratt. Hartford. Conn.
- Pratt, Hartford, Conn. 107,753.—SHOW CASE.—Milo M. Belding, Brooklyn, N. Y. 107,754.—CULTIVATOR PLOW.—Victor Bolis, St. Mary's parish,
- 107,755.—REED BOARD FOR ORGANS.—Riley Burdett, Chica-
- go, Ill. 107,756.—CEMENT WALK, PAVEMENT, AND ROAD.—Charles
- Burgess, Rochester, N. Y. 107.757.—PLANE.— T. O. Callahan, Boston, Mass.
- 107,758.—SADDLE FOR SPINNING MACHINES.—J. S. Casey
- voluntown, Conn. 107,759.—FANNING MILL.—G. E. Clarke, Racine, Wis. 107,760.—CORN CULTIVATOR.—Jesse Clements, Blooming
- Grove, Ind. Grove, Ind. 107.761.—CORN SHELLER, ETC.—G. S. Coleman, Alexandria, va. Anteated September 21, 1870. 107.762.—ADJUSTABLE STOP FOR CASTER FOR STOVE LEGS. —William Coughlin, Clarksville, Ohio. 107.763.—CLOTHES DRYER.—Lewis Cutting, San Francisco,

- Cal. 107,764.—CURTAIN FIXTURE.—John Doyle, Hoboken, N. J. 107,765.—SPLINT PLANE.—P. N. Drake and David Drum mond, McGregor, Iowa. 107,766.—INGOT MOLD
- INGOT MOLD.—Z. S. Durfee, Troy, N. Y. 107,766.—INGOT MOLD.—Z. S. Durfee, Troy, N. Y. 107,767.—REMOVABLE SHOE LINING.—H. A. Everts, Cedar
- REISOUES. 4,129.—TANNING AND STUFFING LEATHER.—W. B. Britting,-ham, La Fayette, Ind. Patent No. 89306, dated January 18, 1870. 4,180.—COFFEE MILL.—Thomas W. Brown, Boston, Mass., assignor to Charles Parker, Meriden, Conn.—Patent 105,545; dated July 19, 1870.
- 107,767.—REMOVABLE BIOL ZILL. Falls, Iowa. 107,768.—GRINDSTONE OR TOOL-SHARPENER.—Uriah Faris and Abraham Miller, Red Rock. Iowa. 107,769.—LIQUID METER.—Wilhelm Fischer (assignor to Fischer & Stiehl), Essen, Prussia. 107,770.—SETTING OF FENCE POSTS.—William Fulkerson, Three Bivers. Mich.
- 19, 1870. 4,131.—LUBRICATOR.—H. A. Daniels (assignor to the Daniels, Nichols & Gaylord Manufacturing Company), Waterbury, Conn. Patent No. 92,283, dated July 6, 1869. 4,132.—FURNACE FOR ROASTING ORES.—E. P. Hudson, New York city, assignor to the Hudson Ore-Refining Company. Patent No. 78,456, dated June 2, 1865. Three Rivers. Mich. 107,771.—COFFEE ROASTER.—H. M. Gilbert, Ada, Ill. 107,772.— PICKER COLLAR.— J. M. Gotham, Blackstone, Mass., assignor to himself and Lewis Devlin, Central Falls, R. I. 107,773.—SASH HOLDER.—P. W. Greenwood, Peterborough, York city, assignor to the Hudson Ore-Refining Company. Patent No, 78,455, dated June 2, 1865.
 4,133.—Rein HOLDER FOR CARRIAGES.—Elias C. Patterson, Rochester, N. Y. Patent No. 62,879, dated March 12, 1867.
 4,134.—COMPOSITION FOR COVERING STEAM BOILERS, STEAM PIRES, ETC.—John Riley and C. W. Bissell (assignors, through meane assignments, to the United States and Foreign Salamander Feling Co.). Troy, N. Y.-Patent No. 95,517, dated October 5, 1869.
 4,135.—MILLSTONE DRESS.—Joseph Sedgebeer, Painesville, Ohio.-Patent No. 53,585, dated July 8, 1862.
 4,136.—SOLAR CAMERA.—W. H. Masters, Princeton, Ill.—Patent No. 53,9917, dated November 20, 1866.
- 107,774.—BEDSTEAD CLAMP.—T. B. Gregory, Champaign
- 107,775.—PERMUTATION LOCK.—W. N. Hall, Springfield,
- 10va. 107,776.—SLED.—B. E. Heminway (assignor to himself and W. L. Prince, Fortland, Me. 107,777.—CULTIVATOR.—Louis Homrighouse, Baltimore,

- selma, Ala. 107.797.—GRAIN BINDER.—Daniel McPherson, Caledonia,

- 107,714.—IRONING BARGE Signor to Joseph Parker, Goothope, Onio.
 107,915.—FURNACE GRATE.—A. L. Pennock, Upper Daroy, Parker, Burnace Grate.—A. L. Pennock, Upper Daroy, Parker, Goothope, Onio.
 107,716.—CAR VENTILATOR AND REFRIGERATOR.—William E. Phelps, Eliwwood, III.
 107,717.—TREADLE FOR SEWING AND OTHER MACHINES.— B. C. cole, Washington, D. C.
 107,718.—MACHINE FOR ORNAMENTING THE SURFACE OF Wood, J.R. Aucherman, Bucyrus, Ohio.
 107,719.—STEERING APPARATUS.—T. C. Purington, Vallejo, C.J.
 107,803.—COVER FOR COOKING UTENSILS.—L. B. Oviatt Brooking Village, Ohio.
 107,804.—HARVESTER REEL.—C. N. Owen, Salem, Ohio.
 107,805.—WATER WHEEL.—Ezra Parker, Beverly, Ohio.
 107,806.—HEATING STOVE.—Nathan Parish, Kalamazoo, Nathan Parish, Kala

 - 107,806.—HEATING STOVE.—Nathan Parish, Kalamazoo, Mich. Anteiated September 21, 1870. 107,807—HOISTING MACHINE.—Nathan Parish, Kalamazoo,
 - 107,808.—SAW.—John Phillips, Chicago, Ill. 107,809.—MANUFACTURE OF ILLUMINATION GAS.—E. A. Pond, G. H. Pond, and M. S. Richardson, Rutland, Vt, Antedated Sep-tember 24, 1870.

 - tember 24, 1870. 107,810. MANUFACTURE OF FRICTION MATCH CIGAR LIGHT-WR. William Porter, St. Stephen, Canada. 107,811. LIQUID FOR GALVANIC BATTERIES. Emil Prevost, New York efty. 107,812. BEDSTEAD FASTENING. C. D. Purdy, La Porté,

 - 107,813.—Spring Hinge for Doors, ETC.—Andrew Rankin,
 - Philadelphia, Pa. 107,814.—CAR COUPLING.—Bennett R. Rose, Kansas City,
 - 107,815.-MANUFACTURE OF ASPHALTIC COMPOSITION FOR
 - PAVEMENTS, ROADS, ETC. Albert Ruthay, New York city. 107,816.—VAPOR GENERATING BURNER FOR STOVES.—D. E. Ryan, St. Louis, Mo. 107,817.—KITCHEN BOILER.—William B. Scaite, Pittsburgh, 107.818.—SAUCEPAN.—Fridolin Schifferle, St. Louis, Mo.
 - 107,819.—Spring Hinge for Doors, etc.—A. F. Schiffling, Evansville, Ind.
 - 107,820.—STONE-WORKING MACHINE.—C. F. Schlickeysen Berlin, Frusia. 107,821.—REFRIGERTOR.—Samuel R. Scoggins, Baltimore,
 - Md. 107.822.—EXTENSION LADDER.—J. W. Scott. Philadelphia.

 - Pa. 107,823.—GRAIN BINDER.—Gilman A. Scribner, Rochester
 - 107,824.—SHIELD FOR GAS BURNERS.—Ira W. Shaler, Brook-
 - lýn, N. Y. 107,825.—STOVEPIPE SHELF. James H. Shaut, Andover,
 - 107,826.—LUBRICATOR.—Levi F. Smith, Philadelphia, Pa.
 - 107,827.—SHOVEL.—Wm. H. Smith, Jackson, Pa. 107,828.—PLOW.—Cyrus Snyder, Middletown, Ill.
 - 107.829.-GANG PLOW.-Naaman Spencer, Jr., Eagle Point,

 - 107,830.—DEVICE FOR ACTUATING THE VALVES OF FLUID METERS.—D. B. Spooner, Syracuse, N. Y. 107,831.—CORPSE PRESERVER.—Samuel Stockton and John Schepler, Lambertville, N. J.
 - 107,832.-HORSE HAY RAKE.-J. C. Stoddard, Worcester, Mass. 107.833 — SEPARATING ANIMAL FROM VEGETABLE FIBERS.-
 - James Stuart, London, Edgard, Patented in England, August 107,834.—MILK PALL.—Church Tabor, Craftsbury, Vt. 107,835.—LANTERN.—Church Tabor, Craftsbury, Vt. 107,836.—PAPER FILE.—Church Tabor, Craftsbury, Vt.

 - 107.837.—CAR COUPLING.—**4**. B. Terry, Pittstord, and W. G. Hawley, Gorham, N. Y. 107.838.—WATER PIPE.—John F. Ward, Jersey City, N. J.

 - 107.838.—WATER PIPE.—Jonn F. Ware, Jersey City, N. J.
 107,839.—MEAT HOOK.—Samuel Weaver, Pottstown, Pa.
 107.840.—STEAM GENERATOR.—William Weston, William R.
 Weston, N. R. Weston, and Burt Brett, Stevens'Point, Wis.
 107,841.—PUMP VALVE.—James T. Whipple, Chicago, Ill.
 107.842.—CARDING-MACHINE TEETH.—William H. Whiting,
 Wilmington, Conn., assignor to himself and Marcus M. Johnson.
 107,843.—HARNESS SADDLE-TREE.—P. H. Wiedersum, New
 - York city. 107,844.—ANIMAL TRAP.—John J. Wood, North Manchester, Ind. Antelated September 17,1870. 107,845.—WHIP-SOCKET CLASP.—Alva Worden, Ypsilanti,
 - 107,846.-WOOL-WASHING MACHINE. John Yewdall and
 - Wm. Yewall, Philadelphia, Pa. 107,847.—MACHINE FOR CUTTING STONE.— Hugh Young, Middletown, Conn., and James L. Young, New York city. Antedated September 26, 1870.
 - September 26, 1870. 107,848.—MANUFACTURE OF ILLUMINATING GAS.—William
 - Young, Magdalen Bridge, and Peter Brash, Leith, Scotland. Patented in England, April 6, 1870. REISSUES.

DESIGNS

107,778.—LOCKING-CAP FOR BOTTLE.—J. T. Hough, New Nork city Antedated Sentember 26, 1870. York city. Antedated September 25, 1870. 107,779.—SELF ACTING TILTS FOR BARRELS.—Isaac Hudson and William Minshall, Stockport, Great Britain. 107,780.—GRATE FOR FURNACE.—R. A. Hutchinson, Bergen, 107,781.-CONVERTING CAST IRON AND CAST IRON ARTICLES INTO STEEL-R. A. Jackson (assignor to himself, William B yundis Hugh Bleakly, H. P. McIntosh, F. M. Orr, and Peter Kaplinger), Alli-ance, Ohio. 107.782.—THILL COUPLING.—J. H. Jenings, New Bedford, 107.783.—CARRIAGE AXLE.—Henry Killam, New Haven, Conn. 107,784.—HARVESTER CUTYER HOLDER FOR GRINDERS.—'T. E. King, Cleveland, and G. C. Dolph, West Andover, Obio. 107,785.—WHIFFLETREE HOOK.—Judson Knight, Newark, 107,786.—SPOOL HOLDER.-J. C. Koch and B. J. Beck, Brook-Brocklyr, N. Y. 4.372.—BADGE.—William Riker, Newark, N. J. lyn, assignors to Koch, Sons & Co., New York city. 107.787.-MANUFACTURE OF SPIRITS FROM STARCH.-Herr-107,787.—MANUFACTORE OF SPIRITS FROM STARCH.—AC mann Koehler, New York city.
107,789.—PITMAN HEAD.—J. L. Kretser, Tusten, Wis.
107,789.—WATER WHEEL.—Dennis Lane, Montpelier, Vt.
107,790.—WRENCH.—O. C. Lawbaugh, Shanesville, Ohio. 107.791.—MUSIC STAND.—Carl Lehnert, West Roxbury, as-signor to B. F. Richardson, Cambridge, Mass. 107.792.—BEE HIVE.—Joseph Leffel and Edward Harrison, APPLICATIONS FOR THE EXTENSION OF PATENTS. 107,792.—BEE HIVE.—Joseph Dener and Edward Harrison, springfeld, ohie. 107,793.—Washing Machine.—Gottlob Lieb, Coeyman's above patent. Da" of hearing Nov. 16, 1870. Hollow, N. Y.

4.361.-BLOWER HOLDER.-F. W. Brocksieper (assignor to 4,361.—BLOWER HOLDER.—F. W. Brocksieper (assignor to Sargent & Co.), New Haven, Conn.
4,362.—FIRE.SET HOLDER.—F. W. Brocksieper (assignor to Sargent & Co.), New Haven, Conn.
4,363.—FIRE.DOM.—F. W. Brocksieper (assignor to Sargent & Co.), New Haven, Conn.
4,364.—DOOR PULL.—F. W. Brocksieper (assignor to Sargent & Co.), New Haven, Conn.
4,365.—COOK STOVE.—Henry H. Culver. Kansas City, Mo.
4,366 and 4,367.—CORSET.—D. H. Fanning, Worcester, Mass. Two patents. Two patents. 4,368.—FIGURE OF A MECHANICAL TOY.—Wm. C. Goodwin, Hamilen, Conn. 4,369.—MECHANICAL TOY FIGURE.—Wm. C. Goodwin, Hamden Conn. 4,370.—FIQURE OE A MECHANICAL TOY.—Wm. C. Goodwin, Handen, Conn. 4,371.—CRADLE-PLATE OF GATE LATCH. — Job Johnson, 4,373.-FUNCH DRAWER.-Alonzo H. Rowe, Newburyport, Mass. 4,374.—STOVE PLATE.—N. S. Vedder and Francis Ritchie, Troy, N. Y., assignors to N. S. Vedder. Address

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