ICE PLANER.-Samuel Lewis, Williamsburgh, N. Y.-This invention has for its object to improve the construction of the improved ice planer patented by the same inventor, March 3d, 1868, and numbered 75,029, so as make it more convenient in use, more easily adjusted, and more effective in operation.

CORN PLANTER.-Robert Forman, Normal, Ill.-This invention has for its object to furnish an improved automatic corn planter, simple in construc tion, accurate and effective in operation, and easily operated.

CHURNING MACHINE.-W. A. Rhoades, Lincolnville, Pa.-This invention has for its object to furnish an improved machine, by means of which the churning may be done easily, quickly, and conveniently.

TOX VELOCIPEDE.-H. C. Alexander, New York city .- This invention has for its object to furnish a toy velocipede, provided with a toy rider, and so constructed as to operate automatically upon a circular track.

Answers to Correspondents.

- **CORRESPONDENTS** who expect to receive answers to their letters must, in all cases, sign their names. We have a right to know those who seek in-formation from us; beside, as sometimes happens, we may prefer to ad dress correspondents by mall.
- 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 nature. We will publish such inquiries, however when paid for as advertisemets at \$100 a line, under the head of "Busi ness and Personal."

IF All reference to back numbers should be by volume and page.

- J. C. C. of Miss.-The smell in the collected rainwater standing exposed to the air in an open wooden vessel does not probably arise from the wooden vessel in which it stands, but from the accumulation of organic matter in it. You can purify it by leaching it through charcoal dust, which, placed in a cask, will make a good filter. When the charcoal loses its deodorizing power it can be renewed by heating it in a closed vessel.
- E. A. D., of Va.-The resisting power of a non-conductor is not diminished by its relative position in regard to other conductors. So if a non-conducting substance be placed between heated gases and the walls confining them, it will not cease its action though another better conductor should afterward be placed between it and the hot gases.
- J. C. K., of Iowa.-While we have no doubt that a locomotive with six-feet driving wheels, having a train attached, may have, at times, attained a speed of a mile per minute on down grades, we do not believe it ever drew a train at that rate. The highest speed at present attained upon any railway, is from London to Liverpool, where trains run at the rate of 50 miles per hour.
- C. A. P., of Ill -' To make tragacanth mucilage take of tragacanth, a troy ounce, and boiling water a pint. Macerate with occasional stirring 24 hours. Then rub the mucilage together thoroughly to produce uniformity, and strain forcibly through linen. Add creasote until the odor is faintly perceptible in order to prevent mold and decomposition. If you wish to make a thick mucilage for sealing enveloves, etc., it will be sufficient to put some lumps of the gum in a small bottle and put in cold water. Let it stand until it softens. If too thick add water, if too thin addgum
- L. L. VanD., of Neb .- The pressure of a liquid on any portion of a lateral wall is equal to the weight of a column of liquid which has for its base this portion of the wall, and for its hight the vertical distance from its superficial center to the surface of the liquid. A column of water 144 fect high weighs 62% lbs. for each square inch of base, if of uniform size throughout.
- A. A. C., of Mich.-The moisture which accumulates upon the outside of a pitcher containing cold water is condensed moisture from the air. The temperature at which water thus deposits upon cold sur faces is called the dew-point, and is higher or lower according to the amount of moisture held in suspension in the atmosphere.

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- 92,139.—HARROW AND FARKER COLLECTION OF THE STATE OF THE STAT -John Anderson, Brooklyn, N. Y. 92,143.—PLOW.—W J. Arrington, Jefferson county, Ga.
- 92,144.—COTTON-SEED PLANTER AND DRILL.—W. J. Arring
- 192,144.—COTTON-SEED I LANTER AND DALLS.
 100, Jefferson county, Ga.
 192,145.—METHOD OF BENDING CHAIR RIMS, ETC.—S. M. Barrett, Cincinnati, Ohio.
 192,146.—KNITTING MACHINE.—Dana Bickford, Boston, Mass.
 192,147.—HAND DATING STAMPS.—Edward Bierstadt (assignor to himself and J. M. Tower), Jersey City, N. J.
 192,148.—AXLE GAGE.—Joseph Birkett, Tazewell county, Ill.
 192,149.—CADE CLOTHING.—A. F. Bishop and John H. Aiken,
- 92,149.—CARD CLOTHING.—A. F. Bishop and John H. Aiken, Norwalk, Conn., and John M. Pendleton and A. W. Gates, New York 92.150.—HINGE.—Etienne Boileau and Charles Mesnier, St.
- Louis, Mo. 92,151.—KNOB LATCH.—A. T. Brooks (assignor to Russell &
- S2,151.—KNOB LATCH.—A. T. BrOOKS (assignor to Russell & Erwin Manufacturing Co.), New Britain, Conn.
 S2,152.—KNOB LATCH.—A. T. Brooks (assignor to Russell & Erwin Manufacturing Co.), New Britain, Conn.
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 92,237.—LOW-WATER INDICATOR FOR BOILERS.—P. D. Wesson, Providence, assignor to himself and James Phillips, Central Falls, R. I.
 92,238.—CARRIAGE HUB.—J. W. Weston, New York city.
 92,239.—WINDOW AWNING.—James B. Wheeden, Baltimore, Mathematical Science Science
- 92,155.-Two-way Rain-water Conductor.-F. M. Buckles (assignor to himself and J. A. Stuckey), Altona. Ill. 92,156.—HORSE RAKE.—Daniel Bull, Amboy, Ill. 92,157.—CARRIAGE JACK.—J. O. Burch, Buffalo, N. Y.

- 92,158.—TRUSS.—John Burnham, Batavia, Ill. 92,159.—CORN PLANTER.—Walter Caldwell, Bryan, Ohio. 92,160.—WHEAT DRILL.—R. W. Campbell, Spurgeon, Ind.
- 92,160.—WHEAT DRILL.—R. W. Campbell, Spurgeon, Ind.
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 92,162.—BAND CUTTER FOR THRASHING MACHINES.—Sanford Cartmel, Henry, Ill.
 92,163.—SAFETY ATTACHMENT FOR BREASTPINS.—Frederick Catlin, New York city.
 92,164.—CHURN.—J. I. Cheatham, Athens, assignor to C. A. Mitchelland R. W. Smith. Greensborough, Ga.
 92,165.—MILKING STOOL.—D. D. Chittenden, Baldwinsville, N.Y.

- 92,166.—HAY SPREADER.—D. B. Clement, Brighton, Mass., assignor to himself and D. H. Nash, New York city.
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- 92,168.—WAGON BRAKE.—L. T. Conant, New Lisbon, Ohiq. 92,169.—BRICK MACHINE.—Jacob Cooke, Muncy, Pa. 92,170.—Oil and Tallow Cup.—R. A. Copeland, Brooklyn,
- 92,253.-FIRE PLATE FOR STOVES.-Etienne Boileau, St.Louis, N.Y. Antedated June 22, 1869.
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- signors to themselves and H. A. Brady, Mount Joy, Pa. 92,256.—LAMP CHIMNEY.—Homer Brooke, New York city. 92,257.—APPARATUS FOR OPERATING SCRAPERS.—James F. 92,173.—PLATE FOR PARLOR STOVES.—Joseph Cox, Philadel-32,337.—APPARATUS FOR OPERATING SCRAPERS.—James F. Brooks, Stafford Springs, Conn.
 32,358.—PROCESS FOR SOLDERING THE JOINTS AND SEAMS OF METALLIC VESSELS.—S. D. Brooks, Baltimore, Md.
 32,259.—DIE FOR MAKING HORSESHOE TOE-CALKS.—P. F. Burke, Worcester, assignor to Thomas Dooley, Boston, Mass.
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- 92,262.-COMBINED DRILL AND SEEDER.-John E. Buxton, city.

92,196.—KNIFE-HANDLE BOLSTER.—W. P. Lathrop, West

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- (assignor to himself, Sabin Hutchings, and Sewell Leach), Penobs 92,198.-TRANSPLANTING AND WEEDING MACHINE.-A. E.
- J. Juman, Northampton, Mass.
 92,199.—METALLIC GROMMET.—John Mair (assignor to him-self and H. W. Cramer), Philadelphia, Pa. Antedated June 22 1869.
- 92,200.-CORN PLANTER.-Wm. H. McCormick, Munice, Ind.
- 92,201. CHEESE PRESS. Samuel B. McCollough, Rock Spring, Md., and John R. West, Lancaster county, Pa.; said West assigns to said McCollough. 92,202.—PRUNING SHEAR.—S. A. McFarlane, Grand Rapids,
- Mich.
 92,203.—METALLIC FLOWER STAND AND HOLDER.—Henry Miller, Cranston, assignor to himself and G. Miller, Johnston, R. I. Antesated Jan. 1869.
 92,204.—SHIP'S BERTH.—Joshua Monroe, New York city.
 92,205.—METALLIC DOOR OR SHUTTER.—A. B. Mullett and Bartholomew ereity, Washington, D. C.
 92,306.—CLOTHES LINE HOLDER.—Harrison Ogborn, Rich mont, assignor to Samuel Watson, Lewisville, Int.
 92,707.—IRONING TABLE.—Wm. P. Patton, Harrisburgh, Pa. Antesated June 26, 1864. Mich.

- ton, N. C. 92,210.—MACHINE FOR DRYING YARN, ETC.—George Richard-
- son, Lowell, Mass. 92,211.—BOILER FLUE BRUSH.—P. H. Ryan, Cincinnati, Ohio. 92,212.—FURNACE FOR GENERATING STEAM GAS.—J. Milton
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 92,318.—YARN EVENER.—G. S. Smith, Bozrahville, Conn.
 92,9218.—PARN EVENER.—G. S. Smith, Bozrahville, Conn.

- 92,218.—YARN EVENER.—G. S. Smith, Bozrahville, Conn.
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 92,220.—PROCESS OF TREATING CAST IRON FOR THE MANU-FACTURE OF HORSESHOES AND OTHER ARTICLES.—JAINES R. Speer, Pitts-burgh, Pa. Antestated June 28, 1890.
 92,221.—MODE OF TREATING PIG IRON FOR MAKING STEEL AND MALLEABLE CAST IRON.—JAS. R. Speer, Pittsburgh, Pa. Antestated June 26, 1869.
 92,222.—WATER METER.—Monroe Stannard (assignor to Pratt Whitney & Co.) Hartford Conn.

- 32,323.—WATER METER.—MODICE Stannard (assignor to Prat, Whitney & Co.), Hartford, Conn. 92,323.—COOKING STOVE.—G. W. Swett, Troy, N. Y. 92,324.—EXCAVATOR.—J. W. Swickard, Galva, assignor to himself and W. H. Howell, Altona, II. 92,325.—MANUFACTURE OF TARPAULINS.—N. C. Szerelmey, Dolumera wood Michiga correspond to W. H. Nelly, No. 4. Control Conv. lielgrave road, Pimlico, assignor to W. H. Valpy, No. 5 Craig's Court Charing Cross, England. Patented in England, Jan. 21, 1869. 92,226.—CARPET SWEEPER.—G. F. Taylor, New York city.

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1.828.-WOOD PLANER.-John Richards, Philadelphia, Pa. June 15, 1869. 1,830.-BAND-SAWING MACHINERY.-John Richards, Philadelphia, Pa. June 15, 1869. 1,839.-HOLDBACKS FOR CARRIAGES.-J. B. Mackinnon and A. B. Halliwell, Cleveland, Ohio. June 15, 1869. 1,857.—APPARATUS FOR THE MANUFACTURE OF PAPER.—James Turner, Robert Turner, Archibaid Turner, M. C. Turner, T. C. Turner, and Georgo M. Turner, New York city. June 16, 1859.

1,858.-VENTILATING APPARATUS.-Sylvester Harnden, Reading, Mass. June 16, 1869. APPARATUS FOR COUNTING THE STITCHES MADE BY A SEWING MACHINE. -Gordon McKay, Boston, Mass. June 16, 1869.

1,863.—PROCESS FOR PREPARING SULPHATES AND OBTAINING FINE SILVER THEREFROM.—Frederick Gutzkow, San Francisco, Cal. June 17, 1869.

1.869.-CULINARY UTENSIL.-Sylvester Bowers, Pen Yan, N. Y. June 17, 1869. 1,879.-PERMANENT WAY OF RAILWAYS.-Benjamin Robinson, Boston, Mass. June 18, 1869.

1,884.-COMPOUNDS FOR RENDERING FABRICS WATER-REPELLENT.-R. O. Lowrey, Salem, N. Y. June 19, 1869.

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- N.J. 92,285.—TELEGRAPH KEY.—W. E. Davis, Jersey City, N. J. 92,286.—ROTARY STEAM ENGINE.—J. F. DeNavarro (assignor to Emery Rotary Machine Company), New York city. 92,2:7.—MEASURING FAUCET.—J. F. DeNavarro (assignor to
- 32,371.—MEASURING FAUCET.—J. F. DENAVATIO (assignor to Emery Rotary Machine Company), New York city. 92,288.—SCROLL SAWING MACHINE.—W. H. Dobson (assignor to himself, and Homer Belding), Medina, N. Y. 92,289.—SHAFT COUPLING.—W. B. Dunning, Geneva, N. Y. 92,290.—MATCH SAFE.—J. W. Durham, Ripley, Tenn. 90,001. Autory are Town. B. M. Exerting (reting to him.)

- 92,291 AUTOMATIC TONG. R. M. Eastman (assignor to him-self and F. L. Boyd), Boston, Mass. 92,292. COMPOSITION FOR STAINING GLASS. H. V. Edmond, Normith, Comp. 32,392.—COMPOSITION FOR STAINING GLASS.—H. V. Edmond, Norwich, Conn.
 92,293.—RAILWAY-CAR COUPLING.—John Elbertson, Kirks-ville, Mo.
 92,294.—HARVESTER.—Geo. S. Ellard, Westerly, R. I.
 92,295.—CORN HUSKER.—Elihu Field, Geneseo, III.

- 92,296.—MARLINE SPIKE.—Fred. Fisher, Rockland, Me. 92,297.—CORN PLANTER.—Robert Forman, Normal, Ill. 92,298.—INDIA-RUBBER TOOTH BRUSH.—Samuel W. Francis,
- New York city. 92,299.—TELEGRAPH INSULATOR.—J. W. Fry, Elizabeth, N. J. 92,300.-KNITTING MACHINE.-Fred. Gardner, Hamilton,
- Canada 92,301.—PHYSIOLOGICAL BATTERY.—A. C. Garratt, Boston,
- 92,302.—ARMOR-PLATING FOR VESSELS.—Domenico Giambas-
- tiani, Washington, D. C. 92,303.—PAPIER MACHE COMPOUND.—G. F. Goetze, New York
- 92,304.—POTATO DIGGER.—I. C. Groom, Albany, N. Y.
- 92,305.—LET-OFF MECHANISM FOR LOOMS.—Wm. Hall, North
- Adams, Mass. 92,306.—APPARATUS FOR PROPELLING CARRIAGES.—Thos. A. Hares, New York city. 92,307.—LUBRICATOR.—A. W. Harris, Providence, R. I. 92,308.—CHURN.—B. N. Harris, Talbotton, Ga.

- 92,309.—CLEANING AND POLISHING ATTACHMENT TO SHEET METAL ROLLS.—J. B. Hastings (assignor to himself and L. T. Dean), Ironton. Ohio.
- 170nton, Ohio. 92,310.—RAILWAY RAIL SPLICE.—W. E. Henry, Joliet, Ill. 92,311.—WINDMILL.—Jas. M. Hill and Hen'y C. Hill, Fairfield
- Post Office. III. 92,312.—ROPE MOLDING MACHINE.—Noah W. House, Adrian,
- Mich. 92.313.—INJECTOR.—Christian Hughes, Niles, Ohio.
- 92,314.—RAILWA¥CAR TRUCK.—G. H. Jones (assignor to him-self and H. L. Wise), Grand Rapids, Mich. 92,315.—DOG MUZZLE.—Hermann Kaempf, Newark, N. J. 92,316.—OIL-CAN FROM PAPER STUFF.—E. G. Kelley, New
- York etty. 92,317.—GAS GENERATOR.—Pat. Kelly, Dayton, Ohio. 92,318.—CLOD-FENDER FOR PLOWS.—R. A. Kelly, Hope, Ind. 92,319.—SHAFT COUPLING.—Wm. Kennedy, New London, Pa. 92,320.—HARROW.—Jay Knickerbocker, Dunning, Pa. 92,321.—FUNNEL.—H. F. Lawrence, Vallejo, Cal.

- 92,322.-GAS HEATER.-H. Y. Lazear and J. L. Sharp, New
- 92,323.—(FAS FIEATER.—11. 1. LEGENT MAY YORK CITY.
 92,323.—MACHINE FOR WASHING DISHES, KNIVES AND FORKS, ETC.—C. M. Leland, Central City, Colorado Territory.
 92,824.—PORTABLE AND CONVERTIBLE COFFER DAM.—Sam. Lewis, Williamsburgh, N. Y.
 92,925.—ICE PLANER.—Samuel Lewis, Williamsburg, N. Y.
 92,925.—ICE PLANER.—Samuel Lewis, Williamsburg, N. Y.

- 92,323.—ICE FLANER.—Samuel Lewis, Williamsburg, N. I.
 92,326.—CLOVER AND FLAX THRASHING MACHINE.—Sam. H. Lintan, Burrows, Ind.
 92,327.—REVOLVING SCREEN FOR CLEANING GRAIN.—Dan'l Loeffel, Mount Vernon. Ind.
 92,328.—DEVICE FOR HOLDING THREAD WHILE DOFFING IN SPINNING MACHINE.—T. L. Luders, Olney, Ill.
 92,329.—GATE.—Christain Mack, Leipsic, Ohio.
 92,329. MACHINE. LANDERD, L. L. MACRO, NAUMORT P. L.

- 92,330.—MAGIC LANTERN.—L. J. Marcy, Newport, R. I.
- 92,331.—VISE.—A. Z. Mason, Adrian, Mich. 92,332.—PROCESS AND APPARATUS FOR MANUFACTURING COMPOSITION PIPES, TUBES, BARRELS, ETC.—J. K. Mayo, Williamsburgh, N. V. -DEVICE FOR DETACHING HORSES FROM CARRIAGES. 92.333.
- C. McElroy, New Baltimore, Mich. 92,334.—FENCE.—Jas. McKee, Mount Vernon, Ohio. 92,335.—CAR BRAKE AND STARTER.—J. M. McMaster, Roch-
- ester, N. Y. 92,336.—RULING PEN.—Rob't McVeen, Cleveland, Ohio. 92,337.—NICKLE-LINED CULINARY VESSELS.—S. C. Moore,
- 92,338.—PIPE LEAK STOPPER.—Stephen Moore (assignor to himselfand Homer Rogers), Sudbury, Mass.
 92,339.—HORSE RAKE.—C. H. Moscy, Mansfield, Ohio.
 92,340.—HAT VENTILATOR.—Geo. Munro, Philadelphia, Pa.
 92,341.—CHIMNEY.—Wm. Musbash, and C. R. Smith, Middletown, N.Y.

- town, N. Y. 92,342.—STRAW CUTTER.—F. B. Newton, Bouckville, N. Y.

- 92,342.—STRAW CUTTER.—F. B. Newton, Bouckville, N. Y.
 92,343.—DEVICE FOR SECURING COVERS TO JARS FOR TRANS-FORTATION.—M. H. Nichols, Hancock, N. Y.
 92,344.—LOCKING WARDROBE HOOK.—Oscar Nicholson, New New York city.
 92,345.—MODE OF HARDENING AND WORKING "RANSOME CONCRETE STONE."—Richard Norris, Jr., Baltimore, Md.
 92,345.—ILULMINATOR FOR STOVES, RANGES, ETC.—Benj. Nott. Albany. N. Y. lott. Albanv. N. Y
- 92,347.—BAG FILLER.—A. J. Olney, Van Buren, Ind. 92,348.—BEEHIVE.—J. A. Paddock, and J. S. Estep, Casscoun-
- 111 92,849.-PLATE FOR PLOWSHARE BLANKS.-Wm. Parlin, Can-III
- ton, III. 92,350.—CULTIVATOR.—D. H. Paul, De Witt, Iowa. 92,351.—GRATE BAR.—B. F. Penny, and Jas. Jones, Roches.
- N. Y. .---REVERSIBLE STOVEPIPE SHELF.--John Perham, Be 92,352.
- 92,352.—REVERSIBLE STOVEPIPE SHELF.—John Pernam, Beloit, Wis.
 92,353.—RUBBER OR GUTTA-PERCHA HOSE.—E. L. Perry, and Chas. Manheim, New York city.
 92,354.—REVERSIBLE KNOB LATCH.—F. P. Pfleghar, New Haven Conn.

- 92,280.—DOOR LATCH.—JOS. O. CUTTYET and Wm. C. YOUNG, Thorntown, Ind.
 92,281.—SAUSAGE STUFFER.—Henry Curtner, Anna, Ohio.
 92,281.—SAUSAGE STUFFER.—Henry Curtner, Anna, Ohio.
 92,282.—HOT-AIR FURNACE.—M. A. Cushing, Aurora, Ill.
 92,283.—LUBRICATOR.—H. A. Daniels, Thomaston, Conn.
 92,283.—TELEGRAPH SOUNDER.—W. E. Davis, Jersey City, N.J.
 92,285.—TELEGRAPH KEY.—W. E. Davis, Jersey City, N.J.
 92,286.—ROTARY STEAM ENGINE.—J. F. DeNavarro (assignor to Emery Rotary Machine Company), New York city.
 92,377.—MEASURING FAUCET.—J. F. DeNavarro (assignor to Emery Rotary Machine Company), New York city.
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 92,377.—MEASURING FAUCET.—J. F. DeNavarro (assignor to Emery Rotary Machine Company). New York city.
 92,377.—FLY-STRING CUTTER AND ROUNDER.—S. W. Sheller, Munt Carroll, Ill.
 92,378.—OTLING DEVICE.—Andrew M. Shoenfelt and Joseph M. Shoenfelt, Waterside, Pa.
 92,380.—INVALID BELSTEAD.—Franklin H. Smith and Wm. F. Wood, North Hebron, N. Y.
 92,382.—MULE FOR SPINNING.—John Burns Smith, Cohoes, N. Y.

 - N. Y.
 - 92,383.-RAILWAY CAR COUPLING.-J. C. Smith, Stoughs-
 - 92,385.—RALWAT CAR COUPLING.—J. C. Shirin, Stought town, Pa.
 92,384.—WATER GATE.—Vernon E. Smith, Lancaster, N. H.
 92,385.—GRAIN CLEANER.—Wm. B. Smith (assignor to himself, Reid Wallace, and Cyrus Finley), Clayton, Ill.
 92,386.—RAILWAY CAR COUPLING.—D. G. W. Snyder, Wil-

 - 92,880.—RAILWAY CAR COUPLING.—D. d. W. Snyder, Williamsport, Ma.
 92,887.—RAILWAY CAR REPLACER.—Enos Snyder, Providence, Pa.
 92,388.—DEVICE FOR TURNING AND LOADING LOGS.—Samuel Snyder, Delaware, Ohio.
 92,389.—COTTON SEED PLANTER.—A. V. M. Sprague and R.
 - 7. Osgood, Rochester, N. Y. 390.—CONCRETE PAVEMENT.—Harvey B. Steele, Winches-92,390.
 - 192,390.—CONCRETEPAVEMENT.—Harvey B. Steele, Winches-ter, Conn. 192,391.—APPARATUS FOR GENERATING AND CARBURETING GAS FOR LIGHTING RALEGAD CARS.—John H. Stiner, St. Louis, Mo. 192,392.—HARVESTER DROPPER.—George Stevenson, Zions-ville, Ind.

 - 92,393.—BREECH-LOADING FIREARM.— John T. Stoakes, Champlain, N. Y. Antedated June 29, 1869. 92,394.—COMPOUND FOR CURE OF DROPSY.—John R. Strick-

 - land, Sayville, N. Y. 92.395.-BORING TOOL. Charles Carrol Strong, Defiance, Ohio
 - 92,396 .- FOLDING MATTRESS.-M. Sulzbacher, New York citp. 92,397.—RAILWAY.—Wm. Allen Sutton, New York city, and Eugene Crowell, San Francisco. Cal. 92,398.—GUN CAP.—John Talbott, Albany, Ga.

 - 92,399.- LUBRICATOR. Hugh Thomas, New York city. 92,400, CLOTHES RACK. Hugh Thomas and Robert Wal-lace, New York city. 92,401. SEED SOWER. J. G. Thompson, Stockton, N. Y. 92,402. POTATO DIGGER AND PICKER. Wm. J. Thompson,
 - Normal, III. 92,403.—COATING HOOP-SKIRT WIRE.—Wm. Henry Towers,

 - 92,405.—COATING HOOP-SKIRT WIRE.—Wm. Henry Towers, Boston. Mass.
 92,404.—STOVE DRUM.—Marshall Turly and J. D. Bayliss, Council Bluffs, Iowa.
 92,405.—MANUFACTURE OF HYDRATE OF MAGNESIA.—Carl Wantel, Waldau, near Bernburg, North German Confederation, assign-or to F. O. Matthiessen and W. A. Wiechers, New York city.
 92,406.—MANUFACTURE OF GRANULATED SUGAR.—Carl Wan-del Waldau, near Bernburg North German Confederation, assignor to divide a grant and the second statement of the second statement o

 - del Waldau, near Bernhurg, North German Confederation, assignor to same. F. O. Matthiessen and W. A. Wiechers, New York city. 92,407.— v. INDOW SASH BALANCE.—R. A. Warner, Colum-bus, Ga.

 - 92,408.—PLOW.—George Watt, Richmond, Va. 92,409.—CLEVIS ATTACHMENT FOR PLOWS.—George Watt, Richmond, Va.
 - 92,410.—CORN SHELLER. Theophilus Weaver, Harrisburg,
 - Pa. 92,411.—CHURN.—Daniel Widmaye, Lansing. Mich. 92,412.—VELOCIPEDE.—Albert Oliver Willcox, Jr., Port Rich-mond, N.Y. 92,912.—PEVOLVING DINING TABLE.—R. Wilson, Rees Cor-
 - 92,313.--REVOLVING DINING TABLE.-R. Wilson, Rees Corers, Md.
 - -LOCK FOR HANDCUFFS.-James A, Wisner and Mon-92.314.on Hoyt, East Saginaw, Mich

REISSUES.

- 82,073.—VISE.—Dated September 15. 1868; reissue 3,530.— Thomas L. Baylies and Edwin Crawley, Richmond, Ind. 11,608.—MANUFACTURE OF IN: IA-RUBBER.—Dated August 29,1854; extended seven years; reissue 3,531.—James S. Carcew, Norwich, Comn., assignee of Caleb Swan, executor of Daulel Hayward, deceased. 55,067.—RAILWAY CAR BRAKE.—Dated May 29, 1866; reissue 3,532.—John Davis, Alleghe y City, Pa. 9,947.—MACHINE FOR PEGGING BOOTS AND SHOES.—Dated Argen 16, 1853; antredated seven years; reissue 6, seven years; reissue 4, seven ded seven years; reissue 6, without glue, and neatly painted. The name of the invention consists of argen are to be added by the seven years; reissue 6, without glue, and neatly painted. The name of the invention consists of ment upon some other machine, full working model of the wh will not be necessary. But the medel must be sufficiently perf

August 16, 1853; antedated February 18, 1853; extended seven years; re-issue 3,533.-Alpheus C. Gallahue, Riverdale, N. Y. 87,075.-PROCESS OF REPAIRING CRUCIBLES.-Dated Febru-

1980e 3,333.-Alpheus C. Gallanue, Riveraale, N.Y.
87,075.-PROCESS OF REPAIRING CRUCHLES.-Dated February 16, 1869; reissue 3,534.-Wm. F. Sherman, Bucksport, Me.
76,992.-SAFETY VALVE.-Dated April 21, 1808; reissue 3,535.
-Albert G. Buzby, Philadelphia, Pa.
82,267.-STRIKING MtCHANISM FOR CLOCKS.-Dated September 5, 1868; reissue 3,536.-Jonn B. Mayer.
19,442.-HARVESTER.-Dated February 23, 1858; reissue 3,537.
19,442.-HARVESTER.-Dated February 23, 1858; reissue 3,538.
-Division A.-C. H. McCormick, Chicago, Ill., assignee, by mesne assignments, of Hamilton A. Parkhurst.
19,442.-HARVESTER.-Dated February 23, 1858; reissue 3,538.
-Division B.-C. H. McCormick, Chicago, Ill., assignee, by mesne assignments, of Hamilton A. Parkhurst.
49,799.-PLOW.-Dated September 5, 1865; reissue 3,539.20,191.-CULTIVATOR-Dated September 15, 1868; reissue 3,540.-Claus Spreckels, San Francisco, Cal.
82,191.-CULTIVATOR-Dated September 15, 1866; reissue 3,540.-Claus Spreckels, San Francisco, Cal.
29,510.-IRON RAHLWAY CAR.-Dated August 7, 1860; reissue 1,523; dated July 2, 1862; reissue 3,542.-Division A.-Richard Montgomery, New York city.
29,510.-FLOOR FOR CARS AND BUILDINGS.-Dated August 7, 1360.-Richard Montgomery, New York city.

29,510.—FLOOR FOR CARS AND BUILDINGS.—Dated August 7,

1860; reissue 1,325, dated July 22, 1862; reissue 3,543.—Division B.—Richard Montgomery, New York city.
 866,238.—NUT MACHINE.—Dated July 2, 1867; reissue 3,544.— David Howell Lowierille, Kr.

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erson, N. J. 3,568.—TRADE MARK.—Henry Brunner, Baltimore, Md. 3,569.—TOP OF AN OIL CAN.—T. W. Burger, New York city. 2,570.—CAST IRON SETTEE.—David W. Downs and Franklin P. Rand, North Providence, R. I. 3,571.—WINDOW FASTENING.—George Byron Kirkham, New Vork city.

York city. 3,572.—TABLE KNIFE.—B. Raven, Pleasantville, Pa.

3,567.—PHOTOGRAPHIC PORTRAIT HOLDER.—Hans Bach, Pat- tures of all kinds.

David Howell, Louisville, Ky.

 92,354.—REVERSIBLE KNOB LATCH.—F. P. Pfleghar, New Haven, Conn. 92,355.—METHOD OF MAKING HORSESHOE NAILS.—A. M. Polsey, Boston, Mass., assignor to F. H. Fuller. 92,356.—STAIRS.—Niels Poulson, New York city. 92,357.—STEAM WATER-ELEVATOR.—W. E. Prall, Washington, D. C., assignor to himself, and A. C. Rand, New York city. 92,358.—ARTIFICIAL STONE.—A. Quesnot, Bloomington, Ill. 92,359.—FARM FENCE.—C. W. Reeder, Trenton, Mo. 92,360.—CHURNING MACHINE.—W. A. Rhoades, Lincolnville, Pa. 92,362.—YARD MARK AND KNIFE.—E. D. Richardson, Chardon, O. Philo. 	 5,573.—BARN DOOR HANGER OR ROLLER.—Henry M. Ritter (assignor to M. Greenwood and Company), Cincinnati, Okto. 3,574.—SASH WEIGHT.—Julius Benedict, Brooklyn, N. Y. 3,575.—SCARF PATTERN.—Conyers Button, Philadelphia, Pa. 3,576.—AIR-CHAMBER FOR PARLOR STOVES.—M. B. Hudson, Canandaigua, N.Y. 3,577.—COOK STOVE.—Isaac B. Resor (assignor to W. Resor & Co.), Cincinnati, Ohio. EXTENSIONS. MACHINE FOR MITRING PRINTERS' RULES.—Wm. McDonald, Morrisania. N.YLetters Patent No. 13,197, dated July 3, 1855; reissue No. 2,599, dated March 17, 1868. 	pared and taken a larger number of European patents than any other American Agency. They have Agents of great experience in London, Paris, Berlin, and other cities. For instructions concerning Foreign Patents, Reissues, Interferences, Hints on Selling Patents, Rules and Proceedings at the Patent Office, the Pat- ent Laws, etc. see our Instruction Book. Sent free by mail on application.
 92,363.—OSCILLATING STEAM-ENGINE.—F. C. Richer, Gilmer, Texas. 92,364.—PORTABLE BATH TUB.—J. P. Rider, Brooklyn, N. Y. 92,365.—RAILWAY CAR COUPLING.—Jas. Riley, Chicago, Ill. 92,366.—TOY CAME.—Chas. Robinson, Cambridge, Mass. 92,367.—WEATHER STRIP.—H. A. Robison, Cleveland, Ohio. 92,368.—APPARATUS FOR CUTTING AND SHEARING METAL.— Thomas A. Robinson, Boston, Mass. 92,369.—MILL-PICK HANDLE.—Nathan Rose, Belmont, N. Y. 92,370.—PICKS.—Nathan Rose, Belmont, N. Y. 92,371.—PLOW.—Geo. W. Russell, Rockford, Ill. 92,373.—PUMP.—Christian Schmidt, Rock Island, Ill. 92,374.—FUUTING MACHINE.—Carl Schortau (aasignor to himselfand A. L. Bogant), New York city. 92,375.—SPRING BED BOTTOM.—D. A. Scott, Cincinnati, Ohio. 	Inventions Patented in England by Americans. [Compiled from the "Journal of the Commissioners of Patents."] PROVISIONAL PROTECTION FOR SIX MONTHS. 1,791.—REPLACER FOR RAILWAY LOCOMOTIVES, AND OTHER ROLLING STOCK THROWN OFF THE RAILS.—RODEr'S BUSLIN, St. John, New Brunswick, June 10, 1869. 1,802.—INSTRUMENTS FOR DRESSING STORE.—I.E. Newton, Waterbury, Conn. June 11, 1869. 1,814.—STEMBARKE DRILLING APPARATUS.—Samuel Lewis and William MCFarlane, Brooklyn, N.Y. June 11, 1869. 1,814.—STEMM GAGE.—J.H. Miller, Cleveland, Ohio. June 12, 1869. 1,814.—Stewing Machinez.—Daniel Mills, Brooklyn, N.Y. June, 14, 1869. 1,820.—ATTACHMENT FOR AND MODE OF ACTUATING SHIPS' FUMP ⁵ – Almon Roff, Southport, Conn. June 14, 1869. 1,823.—MACHINE FOR SEWING BOOTS AND SHORS.—Daniel Mills, Brooklyn, N.Y. June 14, 1869.	Those who receive more than one copy thereot will oblige by presenting it to their friends. Address all communications to MUNN & CO., No. 37 Park Row, New York City. Office in Washington, corner of F and Thistreets. Schedule of Patent Office Fees : On each Caveat On miling each application for a Patent, (seventeen years) Sig On application for Relssue. On mapplication for Design (three and a half years) On an application for Design (three and a half years) On an application for Design (fourteen years) Sig On an application for Design (fourteen years) On an application for Design (fourteen years) Sig On a application for Design (fourteen years) Sig On an application for Design (fourteen years) Sig On an application for Design (fourteen years) Sig On an application for Design (fourteen years) Sig On a application for Design (fourteen years) Sig On application for Design (fourteen years) Sig On application for Design (fourteen years)