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.-RobertForman, 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 add gum.
- 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 feet high weighs 621/2 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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 Imaddition to which there are some small revenue-stamp taxes. Residents of Canada and Nova Scotia pay \$500 on application.

- 92,138.-SEWING MACHINE.-John Q. Adams, North Brookfield, Mass 92,139.—HARROW AND MARKER COMBINED.—Wm. Addleton,

- 92,139.—HARROW AND MARKER COMMEND.
 Motiville, N.Y.
 92,140.—HORSE RAKE.—F. M. Allerton, Alliance Ohio.
 92,141.—PAPER CLIP.—W. A. Amburg, Chicago, Ill.
 92,142.—Shield For Protecting Horses from Sunstroke. -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.—CUTTON-SEED I LANTER AND DALL.
 192,145.—METHOD OF BENDING CHAIR RIMS, ETC.—S. M. Barrett, Cincinnati, ●hio.
 92,146.—KNITTING MACHINE.—Dana Bickford, Boston, Mass.
 92,147.—HAND DATING STAMPS.—Edward Bierstadt (assignor to himself and J. M. Tower), Jersey City, N.J.
 92,148.—AXLE GAGE.—Joseph Birkett, Tazewell county, Ill.
 02,148.—CLUDE CLOPHUNG —A F Bishon 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.
- 92,150.—HINGE.—Etlenne Doneau and Character Louis, Mo.
 92,151.—KNOB LATCH.—A. T. Brooks (assignor to Russell & Erwin Manufacturing Co.), New Britain, Conn.
 92,152.—KNOB LATCH.—A. T. Brooks (assignor to Russell & Erwin Manufacturing Co.), New Britain, Conn.
 92,153.—KNOB LATCH.—A. T. Brooks (assignor to Russell & Erwin Manufacturing Co.), New Britain, Conn.
 92,154.—ScruBBING BRUSH.—G. W. Brown, Providence, R. I. 202155. Two way Bain-Water Conductor.—F. M. Buckles
- 92,155.-Two-way RAIN-WATER CONDUCTOR.-F. M. Buckles (assignor to himself and J. A. Stuckey), Altona. Ill. 92,156.—Herse Rake.—Daniel Bull, Amboy, Ill. 92,157.—CARRIAGE JACK.—J. O. Burch, Buffalo, N. Y.

- 92,158.—TRUSS.—John Burnham, Batavia, III. 92,159.—CORN PLANTER.—Walter Caldwell, Bryan, Ohio. 92,160.—WHEAT DRILL.—R. W. Campbell, Spurgeon, Ind.
- 32,160.—WHEAT DRILL.—R. W. Campbell, Spurgeon, Ind.
 32,161.—MACHINERY FOR MANUFACTURING COMPOSITE PAPER. —Wellington Campbell, Milburn, N. J.
 32,162.—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. Mitchell and R. W. Smith. Greensborough, Ga.
 92,165.—MILKING STOOL.—D. D. Chittenden, Baldwinsville, N.Y.

- N. Y. 92,166.—HAY SPREADER.—D. B. Clement, Brighton, Mass., as-signor to himself and D. H. Nash, New York city. 92,167.—CIRCULAR KNITTING MACHINE.—C. G. Cole, Ben-nington, Vt., assignor to Dana Bickford, Boston, Mass.
- 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, N.Y. Antedated June22,1869.
 92,171.—COMBINED SEED PLANTER, DROPPER, AND CULTIVA-TOR.—Co.M. Cornell, Ionia, Mich. 92,254.—EYELET-MAKING MACHINE.—H. C. Bradford, Provi-dence, R. I. 92,255.—LIFTING JACK.—Wm. Brady and C. H. Brady (as-
- 92,172.—COAL STOVE.—David B. Cox and Albert Brown, Troy,
- 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 SUBATERS.—James F. Brooks, Stafford Springs, Conn.
 32,258.—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.
 32,260.—ELECTRO-MAGNETIC ALARM.—John G. Butler, New York attr.
- 92,173.—I LATE FOR TARLOR STOVES.—Soseph Co., I maderphia, Pa.
 92,174.—BASKET RACK FOR RAILROAD CARS.—W.G. Creamer, Brooklyn, N. Y.
 92,175.—HORSE HAY FORK.—W. E. Derrick (assignor to himself and G. B. Garrison), Jordan, N. Y.
 92,176.—METHOD OF OBTAINING BENZOLE AND ITS HOMO-100 LOSUES FROM COAL GAS.—Fritz Engelhorn, August Clemm, Heinrich Carro, Carl Clemm, Mannheim, Germany. 92,177.—LUMBER SLED.—Geo. Engle, Patch Grove, Wis.
- 92,261.—CONTERSINK.—R. P. Buttles, Mansfield, Pa. 92,178.—CONSTRUCTION OF SAFES.—John Farrel, New York 92,262.-COMBINED DRILL AND SEEDER.-John E. Buxton,
- city.

92,196.—KNIFE-HANDLE BOLSTER.—W. P. Lathrop, West Winsted, Conn. 92,197.—NAVIGATORS' BEARING INDICATOR.—J. D. Leach

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- ssignor to himself, Sabin Hutchings, and Sevvell Leach), Penobso 92,198.-TRANSPLANTING AND WEEDING MACHINE.-A. E.
- Lyman, 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. Mich.
 92,203.—METALLIC FLOWER STAND AND HOLDER.—Henry Miller, Cranston, assignor to himself and G. O. Miller, Johnston, R. I. Antedated Jan. 5, 1860.
 92,204.—SHIP'S BERTH.—Joshua Monroe, New York city.
 92,205.—METALLIC DOOR OR SHUTTER.—A. B. Mullett and Bartholomew Ortly, Washington, D. C.
 92,206.—CLOTHES LINE HOLDER.—Harrison Ogborn, Rich mond, assignor to Samuel Watson, Lewisville, Ind.
 92,207.—IRONING TABLE.—Wm. P. Patton, Harrisburgh, Pa. Antedated June 26, 1869.

- Antedated June 26, 1869. 92, 208.—COTTON GIN.—W. F. Pratt (assignor to the E. Carver Co.), East Bridgewater, Mass. 92, 209.—MEDICAL COMPOUND.—Mary H. Ramsaur, Lincoln-
- ton, N. C. 92,210.—MACHINE FOR DRYING YARN, ETC.—George Richard-

- 92,210.—MACHINE FOR DRYING TARN, EIC.—George Henald son, Lowell, Mass.
 92,211.—BOLLER FLUE BRUSH.—P. H. Ryan, Cincinnati, Ohio.
 92,212.—FURNACE FOR GENERATING STEAM GAS.—J. Milton Sanders, New York city.
 92,213.—WASHING MACHINE.—M. J. Sanford, Fredonia, N.Y.
 92,214.—POST AUGER.—S. S. Sherman and J. G. Sherman, Melanyr III
- 32;214.—POST AUGER.—S. S. Sherman and J. G. Sherman, McHenry, III.
 92;215.—APPARATUS FOR FILTERING LIQUIDS UNDER PRESS-URE.—T. R. Sinclaire, New York city.
 92;216.—ReoFING.—C. T. Smith, Nyack, N. Y.
 92;217.—POCKET CUTLERY.—D. E. Smith, Bronxville, N. Y.
 92;218.—YARN EVENER.—G. S. Smith, Bozrahville, Conn.
 92;218.—DEVENCE, CUTLERY. W. M. Smith, Augusta Ga

- 32,218.—YARN EVENER.—G. S. Smith, Bozrahville, Conn.
 32,219.—RAHLWAY CAR TRUCK.—W. M. Smith, Augusta, Ga.
 92,220.—PROCESS OF TREATING CAST IRON FOR THE MANU-FACTURE OF HORSESHORS AND OTHER ARTICLES.—JAINES R. Speer, Pitts-burgh, Pa. Antedated June 28, 1589.
 92,221.—MODE OF TREATING PIG IRON FOR MAKING STEEL AND MALLFABLE CAST IRON.—JAS. R. Speer, Pittsburgh, Pa. Antedated June 28, 1569.
 92,222.—WATER METER.—Monroe Stannard (assignor to Prett Writner & Co.) Hartfard Conn.

- 32,222.—WATER METER.—MODICE Stannard (assignor to Pratt, Whitney & Co.), Hartford, Conn.
 32,223.—COOKING STOVE.—G. W. Swett, Troy, N. Y.
 32,224.—EXCAVATOR.—J. W. Swickard, Galva, assignor to himself and W. H. Howell, Altona, II.
 32,225.—MANUFACTURE OF TARPAULINS.—N. C. Szerelmey, Delement and W. H. Wells, and W. H. Veller, No. 4.
- helgrave road, Pimlico, assignor to W. H. Valpy, No. S. Craig's Court Charing Cross, England. Patented in England, Jan 2.1, 1869. 2266.—CARPET SWEEPER.—G. F. Taylor, New York city. 92,226.—CARPET ŚwEEPER.—G. F. Taylor, New York city. 92,227.—RETAINER FOR TOBACCO PRESSES.—Enoch Thomas,

Craigsville, Va. 92,228.—REFLECTING GALVANOMETER.—William Thomson,

Glasgow College. Scotland. 92,229.—PROCESS OF TREATING VEGETABLE SUBSTANCES TO

OBTAIN FIBER.-B. C. Tilghman, Philadelphia, Pa. 92,230.-RAILWAY CAR BRAKE.-Frederick Townsend, Albany,

92,230.—KAILWAY CAR DRAKE.—FIGURATED FOR STEAM ENGINES.—C. 92,231.—BALANCE PISTON VALVE FOR STEAM ENGINES.—C. W. Tremain, Chicago, Ill. 92,232.—WASHING MACHINE.—D. J. True and E. Fairfield,

Portland, Me. 92,233.- CLOD BREAKER AND PULVERIZER.-J. B. Turner, Jacksonville, Ill., assignor to himself and Bronson Murray, New York

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92,238.—CARRIAGE HUB.—J. W. Weston, New York city. 92,239.—WINDOW AWNING.—James B. Wheeden, Baltimore,

92,241.-NUT-LOCKING WASHER.-Wm. H. Williams, Canton,

92,242.-TRUING GRINDSTONES.-C. E. Wilson, Boston, Mass.

92,243.—Toy VELOCIPEDE.—H. C. Alexander, New York

2244.—TEACHER'S TOY.—E. F. Anderson, Mansfield, Conn.

92,245.—THRASHING MACHINE.—H. K. Averill, New Oregon,

on Ship-Board, -J. F. Baldwin, Provincetown, Mass. 92,247.—BILLIARD COUNTER.—Harvey Ball. Walpole, N. H. 92,248.—MEDICAL COMPOUND FOR TREATING HOG CHOLERA.

-S. S. Barger, Golconda, Ill. 92,249.—CAR COUPLING.—R. F. Baughn, Lexington, Miss. 92,250.—HOISTING APPARATUS.—John Beattie (assignor to

Wm. Baker), Chicago, Ill. 92,251.—PAPER FILE OR BINDER.—B. J. Beck, Brooklyn, N. Y.

92,252.—TURBINE WATER WHEEL.—S. A. Bell, Newtown, O.

92.253.-FIRE PLATE FOR STOVES.-Etienne Boileau, St. Louis

-PRESERVING ANIMAL AND VEGETABLE SUSTENANCES

92,234.—SEEDER.—M. L. Utter, Rockford, Ill.

92,240.—APPLE PARER.—G. H. Wilde, Aurora, Ill.

19. 1869

Antedated Ju

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Iowa. 92,246.–

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Continental Screw Company's Stock wanted. Address J. C. Clark, 66 Leonard st., New York.	TANNING.—August Fau and Eugene Fau, Castres, France.	• • watonna, Minn. 92,263. – P• WER PRESS. – Daniel Campbell, Elizabeth, N. J., assignor to Charles Parker, Meriden, Conn. 92,264.– HAND STAMP.– E. D. Chamberlain, New York city.
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Charles Steinmann, Napoleonville, La.	92,182.—RAILWAY CAR SPRING.—Perry G. Gardiner, New York Sity. 92,183.—RAILWAY CAR SPRING.—Perry G. Gardiner, New	92,266.—SAW-FILING MACHINE.—C. P. Case, Troy, Pa. 92,267.—RAILWAY CAR SPRING.—J. W. Cochran, New York
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Mill-stone dressing diamond machine, simple, effective, durable Also, Glazier's diamonds. John Dickinson, 64 Nassau st., New York.	Providence, R. I. 92,186.—COMBINED SEEDER, ROLLER, AND CULTIVATOR.—W. S. Grover, •conomowoc, Wis.	HATS AND OTHER AFTICLES.—D. A. Conner (assignor to himself, Chas. Roder, and R. E. Wirsching), Milford, Conn. 92,270.—BRICK MACHINE.—A. E. Cooke, Philadelphia, Pa.
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cinnati Postoffice, ●hio.	92,194.—SPRINKLING CAN.—H. Kaiser and A. Kaiser, Colum-	92,278.—MEDICINE SPOON AND BOTTLE STOPPER COMBINED.
Tempered steel spiral springs made to order. John Chatillon, 91 and 93 Cliffst., New York.	91,195.—SHREDDING AUGER FOR BARRELS.—Archibald Kel- ley, Sharpsburg, Pa. Antedated June 19, 1869.	92,279.—POTATO WASHER.—I. J. Currier and Joseph Hawse', Wolcott, Vt.