move the causes of the debility existing in the side, to get rid of the flesh and fatty matters. The and arsenic, and to stimulate the skin locally by abundant brushing and some gentle stimulant, such as cologne and aqua ammonia used at the same time.

- (30) H. L. H. says: What will make a cheap jet composition, such as is used for making cheap jet ornaments, which can be worked at the heat of an ordinary fire? A. We believe the materials that have been employed for this purpose are pure asphalt, plumbago or animal charcoal, and gutta percha
- cisterns, the water of which is quite offensive. Can any solution be introduced in the visterus which will correct it? A. Try the remedy recommended to I. E. S., on this page.
- (32) W. F. B. asks: On p. 268, vol. 33, you give a formula for writing ink. What is the best ning. process by which to prepare this ink? A. Digest the crushed galls with a portion of the water (hot) for about 48 hours. Then add by degrees the sulphate of iron in a fine powder, with constant agitation until completely dissolved. When this is effected, gradually add the sulphate of indigo, with continued agitation, and allow to cool. Dissolve the $\ensuremath{\mathbf{gum}}$ in the remaining portion of the water (cold), add this solution to the former, stir well, and allow to stand in closed vessels for seve ral weeks. Finally, filter through a bag of fine muslin, and bottle. The ink improves by age.
- (33) S. W. asks: With carbonic cid gas injure the color of fabrics of silk, cotton, and wool, and rust metals? A. No; but in the presence of moisture and carbonic acid, some of the metals rust very rapidly.
- (34) J. E. S. says: I have a rain water cistern 12 feet deep; it holds water well, and, so far as the cistern is concerned, there is no imperfection. The water at this time of year becomes putrified, having a slimy look and taste: it emits a scent and has the taste of water in which there are dead animals. Can you tell me a remedy? A. small percentage of lime and magnesia. No. 2 has Try the addition of a bushel or two of well burnt some red ocher; but you must have more of it and charcoal in coarse powder.
- (35) J. S. s.y -: I am using raw beef hides for covering saddle trees, and use chrome yellow to get a beautiful color, but do not get it perfect. How can I get the hide perfectly transparent, to have the yellow show through? Λ . This is im-
- (36) B. S. C. asks: Is there any chemical process that will turn the hair gray? A. Frequent washing of the hair with a diluted mixture of strong nitric and muriatic acids will accomplish this result. The proportions should be about 1 part of nitric and 3 parts hydrochloric acids, and 20 or 30 parts warm water. The nitric acid will stain the flesh slightly yellow, but this is not per-
- (37) C. B. M. asks: How can I make asbestos waterproof, and not liable to rot, if placed 3 or 4 feet underground? A. Asbestos is waterproof, and is not liable to decay or rot under either of the conditions mentioned.
- (38) W. S. M. says: I have seen a small blood tester, with a ball at one end and a glass cylinder at the other. In this cylinder, there is a lemon-colored liquid with a little glass figure (hollow) in it. If the blood is very warm and feverish, you can keep this liquid bubbling, and this keeps the figure up. Please explain this. A. The liquid is probably ether, and the bulb and cylinder is filled with the ethereal vapor, the air having been completely expelled. The boiling point of ether being very low, the heat of the hand is sufficient, under these circumstances, to cause ebullition; and the increased tension thereby caused in the bulb grasped in the hand causes the liquid to move from bulb into cylinder.
- (39) J. M. S. asks: 1. What are the proportions of elements in champagne? A. Analysis of genuine champagne, of specific gravity 10341 at 60° Fah., gives the following: Absolute alcohol 7.95, sugar 10.63, total acidity 0.52, potash 0.05, water 80.85; total, 100. 2. How are liquids clarified? A. As a general rule, heat to about 170° Fah., filter
- (40) C. J. D. a-ks: Which can be seen the further, a white or red light? A. A white one.
- (41) W. S. G. says: 1. Your recipe for marine glue gives 1 lb. glue to 2 quarts skimmed milk. I find the following difficulties: 1. Small white specks through it after cooling. 2. It molds if exosed to the air. 3. It dries or sets very slowly I made it in an earthen vessel in a water bath, using the best white glue, and as fresh skimmed milk as I could obtain. Can you help me? A. Filter the milk just before using, and add a little furnished from this office for one dollar. In ordering, alcohol or spirits of wine. 2. What is acid chromate of lime? A. It is a combination of lime with two equivalents of chromic acid. 3. When a recipe calls for parts, and there are liquids and solids mentioned, what am I to understand? A. They are parts by weight.
- (42) J. B. asks: Is there any alloy which melts at about 1,000°, suitable for the cylinder of a toy engine? A. Try the following: Melt together 41/2 lbs. tin, and 1/2 lb. each bismuth, antimony, and lead.
- (43) J. S. asks: Please describe the process of clarifying raw beef hides? A. When the hides are received fresh from the slaughterhouse, they are washed, if water be abundant, and the horns are removed. Dried or salted hides are soaked in water for 10 or 14 days, with occasional friction; and in some cases a kind of fulling mill 18 used to produce the soft, supple condition which is necessary for the working. After the washing, green hides are worked with a knife on the flesh

constitution by tonics, especially chalybeates and 'next operation is to get rid of the hair and scarf phosphoric acid, and (where defective nutritive skin, for which purpose the hides are put into power prevails) by means of preparations of iron troughs or pits containing a mixture of lime and water, of three or four different strengths in the different pits. They are left for a day or two in the weakest, and then transferred to the others in succession, until, in the course of two or three wecks, depending upon the texture of the hide and the state of the atmosphere, the line has dissolved the hair sheath, and combined with the fat of the hide to form an insoluble soap. During the operation the hides are handled, or re-moved from the pits, and allowed to drain in a heap for several hours every day, in order to equal-(31) J. S. W. says: I have two rain water epidermis yield to the touch, the skins are taken out and scraped upon a cylindrical table with a suitable knife, called the unhairing knife. The remaining flesh and fat are then completely removed from the flesh side of the skin; they are washed with water, and are then ready for tan-

> (44) F. D. says: I have attempted to coat wax figures with copper, by first giving them a good coating of plumbago; but when I lower them into the copper solution, the greater part of the the plumbago comes off. Please describe a remedy. A. When you have coated the figures with a fine even covering of plumbago, gently heat the surface.

> MINERALS, ETC. - Specimens have been received from the following correspondents, and xamined, with the results stated:

A. J. W .- No. 1 is quartz rock with silicate of alumina. No. 2 is quartzite with oxide of iron. No. 3 is carbonate of copper. No. 4 is clay and decomposed m ca. No. 5 is quartz with clay and oxide of iron. No. 6 is quartz, iron, and lead, no silver.

-M. M. S.—It is probably a variety of web resembling that of the spider. If it could be collected in any considerable quantity, there would be little difficulty in soon making a market for it.-R. L. They are sulphides of iron and copper.-J. F.M.E. It is a variety of steatite, a kind of soapstone.
 N. W. E.—No. 1 is a silicious clay containing a a softer rock to be of usc. No. 3 is a basalt. It contains some iron, but it could not be profitably

COMMUNICATIONS RECEIVED.

The Editor of the SCIENTIFIC AMERICAN acknowledges, with much pleasure, the receipt of original papers and contributions upon the following subjects:

On Baling Cotton. By J. G. T. On the Mississippi River. By J. S. On the Financial Problem. By J. G. On Ventilation. By W. M.

Also inquiries and answers from the following: J. J.-J. H. R.-A. P. B.-J. McB.-F. W. S.-J. K.-J. C. W.-W. B. A.-B. L.-J. B. D.-J. M.-M. B.-

HINTS TO CORRESPONDENTS.

Correspondents whose inquiries fail to appear should repeat them. If not then published, they may conclude that, for good reasons, the Editor declines them. The address of the writer should always be given.

Enquiries relating to patents, or to the patentability of inventions, assignments, etc., will not be published here. All such questions, when initials only are given, are thrown into the waste basket, as it would fill half of our paper to print them all; but we generally take pleasure in answering briefly by mail, if the writer's address is given.

Hundreds of inquiries analogous to the following are sent: "Who sells bicycle wheels? Who sells telescope eyepieces? Whose is the best student's microscope? Who sells microscopic objects. mounted? Who makes the best chronometers? All such personal inquiries are printed, as will be observed, in the column of "Business and Personal," which is specially set apart for that purpose. subject to the charge mentioned at the head of that column. Almost any desired information can in this way be expeditiously obtained.

[OFFICIAL]

INDEX OF INVENTIONS

Letters Patent of the United States were Granted in the Week Ending, May 9, 1876,

AND EACH BEARING THAT DATE. [Those marked (r) are reissued patents.]

A complete copy of any patent in the annexed list, including both the specifications and drawings, will be please state the number and date of the patent desired, and remit to Munn &Co., 37 Park Row, New York city.

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Flat iron stove lid, G. R. Moore. Fork, horse hay, J. L. Saunders. Furnace, house-heating, Peterson & Irwin Furnace, regenerator, F. H. Elchbaum Gage, water, J. Nicholas. Garbage box, B. Burling Gas making, W. H. Tupper. Gate, sliding, S. E. Daniel. Gearing, frictional, M. Ray Generator, sectional steam, B. Densmore Glass melting furnace, E. Jones. Glassware, making, A. A. Adams Grinding machine, roll, G. Gavit (P). Gypsum, treating, C. T. Tomkins. Hammer, spring power, R. F. Livermore. Ilarness, C. H. Corcy Ilarrow, P. J. Jacoby g arvester, J. H. Elward. Harvester, J. Herris. Harvester, J. J. Piggott.	177,286 177,076 177,280 177,280 177,280 177,091 177,315 177,315 177,273 177,223 177,130 177,087 7,102 177,098 177,098 177,128 177,281 177,281 177,281 177,281	Umbrella tip cup, F. S. Brow Vacuum pan, J. Fairburn Valve gear, exhaust, G. H. C. Valve grinding machine, W. Vchicle hub and axle, A. B. Vchicle hub and axle, A. B. Vchicle hub and axle, A. B. Vchicle spring, W. F. Whitn Vchtilator, A. J. Robinson Vcssels, water closet for, A. Vise, J. E. Brundage Voltaic battery, I. L. Pulver Wagon body, extension, J. I. Wagons, side bar, E. Soper. Wagon spring, G. W. Marble Washing machine, S. L. Den Watch ratchet stop, etc., J. Water closet for vessels, A. Water wheel, turbine, T. Ho Whitp socket, T. L. Whitaer
Flat Iron stove lid, G. R. Moore. Fork, horse hay, J. L. Saunders. Furnace, house-heating, Peterson & Irwin Furnace, regenerator, F. H. Elchbaum Gage, water, J. Nicholas. Garbage box, B. Burling Gas making, W. H. Tupper. Gate, sliding, S. E. Daniel. Gearing, frictional, M. Ray Generator, sectional steam, B. Densmore Glass melting furnace, E. Jones. Glassware, making, A. A. Adams Grinding machine, roll, G. Gavit (P). Gypsum, treating, C. T. Tomkins. Hammer, spring power, R. F. Livermore. Harrose, C. H. Corcy Harrow, P. J. Jacoby Marvester, J. H. Elward. Harvester, J. H. Flygott. Hats, blocking, H. V. Snow.	177,286 177,076 177,280 177,280 177,280 177,281 177,315 177,315 177,278 177,278 177,278 177,087 7,102 177,087 177,087 177,098 177,128 177,281 177,281 177,281 177,281 177,269 177,276 177,276 177,276	Umbrella tip cup. F. S. Brow Vacuum pan, J. Fairburn Valve gear, exhaust, G. H. C. Valve gear, exhaust, G. H. C. Valve grinding machine, W. Vehicle hub and axle, A. B. Vchicle spring, W. F. Whitn Ventilator, A. J. Robinson Vessels, water closet for, A. Visc, J. E. Brundage Voltaic battery, I. L. Pulver Wagon body, extension, J. Wagons, side bar, E. Soper. Wagon spring, G. W. Marble Washing machine, S. L. Den Watch ratchet stop, etc., J. Water closet for vessels, A. Water wheel, turbine, T. Ho Whip socket, T. L. Whitacr Wind wheel, W. Bowes Windmill, E. Williamson
Flat iron stove lid, G. R. Moore. Fork, horse hay, J. L. Saunders. Furnace, house-heating, Peterson & Irwin Furnace, regenerator, F. H. Elchbaum Gage, water, J. Nicholas. Garbage box, B. Burling Gas making, W. H. Tupper. Gate, sliding, S. E. Daniel. Gearing, frictional, M. Ray Generator, sectional steam, B. Densmore Glass melting furnace, E. Jones. Glassware, making, A. A. Adams Grinding machine, roll, G. Gavit (P). Gypsum, treating, C. T. Tomkins. Hammer, spring power, R. F. Livermore. Ilarness, C. H. Corcy Ilarrow, P. J. Jacoby g arvester, J. H. Elward. Harvester, J. Herris. Harvester, J. J. Piggott.	177,286 177,076 177,280 177,289 177,091 177,315 177,315 177,323 177,223 177,027 177,087 177,081 177,195 177,293 177,291 177,291 177,291 177,291 177,291 177,291 177,291	Umbrella tip cup, F. S. Brow Vacuum pan, J. Fairburn Valve gear, exhaust, G. H. C. Valve grinding machine, W. Vehicle hub and axle, A. B. Vchicle spring, W. F. Whitn Ventilator, A. J. Robinson Vessels, water closet for, A. Vise, J. E. Brundage Voltaic battery, I. L. Pulver Wagon body, extension, J. I. Wagons, side bar, E. Soper. Wagon spring, G. W. Marble Washing machine, S. L. Den Watch ratchet stop, etc., J. Water closet for vessels, A. Water wheel, turbine, T. Ho Whip socket, T. L. Whitaer Wind wheel, W. Bowes Windmill, E. Willamson Window blind, metallic, M.,
Flat Iron stove lid, G. R. Moore. Fork, horse hay, J. L. Saunders. Furnace, house-heating, Peterson & Irwin Furnace, regenerator, F. H. Elchbaum Gage, water, J. Nicholas. Garbage box, B. Burling Gas making, W. H. Tupper. Gate, sliding, S. E. Daniel. Gearing, frictional, M. Ray Generator, sectional steam, B. Densmore Glass melting furnace, E. Jones. Glassware, making, A. A. Adams Grinding machine, roll, G. Gavit (P) Gypsum, treating, C. T. Tomkins. Hammer, spring power, R. F. Livermore. Harrose, C. H. Corcy Harrow, P. J. Jacoby navester, J. H. Elward Harvester, J. H. Elward Harvester, J. J. Piggott. Hats, blocking, H. V. Snow Health lift, H. U. Johnson Hides, drying, J. Finnigan Hoc, G. Wright.	177,286 177,076 177,269 177,091 177,315 177,315 177,315 177,278 177,278 177,281 177,102 177,001 177,001 177,001 177,001 177,108 177,128 177,281 177,281 177,281 177,281 177,271 177,271 177,271 177,271 177,271 177,271 177,271	Umbrella tip cup. F. S. Brow Vacuum pan, J. Fairburn Valve gear, exhaust, G. H. C. Valve gear, exhaust, G. H. C. Valve grinding machine, W. Vehicle hub and axle, A. B. Vchicle spring, W. F. Whitn Ventilator, A. J. Robinson Vessels, water closet for, A. Visc, J. E. Brundage Voltaic battery, I. L. Pulver Wagon body, extension, J. Wagons, side bar, E. Soper. Wagon spring, G. W. Marble Washing machine, S. L. Den Watch ratchet stop, etc., J. Water closet for vessels, A. Water wheel, turbine, T. Ho Whip socket, T. L. Whitacr Wind wheel, W. Bowes Windmill, E. Williamson
Flat Iron stove lid, G. R. Moore. Fork, horse hay, J. L. Saunders. Furnace, house-heating, Peterson & Irwin Furnace, negenerator, F. H. Elchbaum Gage, water, J. Nicholas. Garbage box, B. Burling Gas making, W. H. Tupper. Gate, sliding, S. E. Daniel. Gearing, frictional, M. Ray Generator, sectional steam, B. Densmore Glass melting furnace, E. Jones. Glassware, making, A. A. Adams Grinding machine, roll, G. Gavit (r) Gypsum, treating, C. T. Tomkins. Hammer, spring power, R. F. Livermore. Ilarness, C. H. Corcy Harrow, P. J. Jacoby Harvester, J. H. Elward Harvester, J. J. Piggott. Hats, blocking, II. V. Snow Health lift, H. U. Johnson Hides, drying, J. Finnigan Hoc, G. Wright. Holdback, W. P. White. Hoof parer, Burroughs & Carrothers	177,286 177,076 177,076 177,269 177,091 177,091 177,315 177,315 177,315 177,231 177,102 177,087 7,102 177,081 177,098 177,129 177,098 177,129 177,270 177,169 177,271 177,111 177,271 177,111 177,271 177,111 177,211	Umbrella tip cup. F. S. Brow Vacuum pan, J. Fairburn Valve gear, exhaust, G. H. C. Valve gear, exhaust, G. H. C. Valve grinding machine, W. Vehicle hub and axle, A. B. Vchicle spring, W. F. Whitn Ventilator, A. J. Robinson Vessels, water closet for, A. Vise, J. E. Brundage Voltaic battery, I. L. Pulver Wagon body, extension, J. I. Wagons, side bar, E. Soper. Wagon spring, G. W. Marbie Washing machine, S. L. Den Watch ratchet stop, etc., J. Water closet for vessels, A. Water wheel, turbine, T. Ho Whip socket, T. L. Whitacr Wind wheel, W. Bowes Window, show, O. B. Potter Yarn, etc., making rosettes
Flat Iron stove lid, G. R. Moore. Fork, horse hay, J. L. Saunders. Furnace, house-heating, Peterson & Irwin Furnace, regenerator, F. H. Elchbaum Gage, water, J. Nicholas. Garbage box, B. Burling Gas making, W. H. Tupper. Gate, sliding, S. E. Daniel. Gearing, frictional, M. Ray Generator, sectional steam, B. Densmore Glass melting furnace, E. Jones. Glassware, making, A. A. Adams Grinding machine, roll, G. Gavit (P). Gypsum, treating, C. T. Tomkins. Hammer, spring power, R. F. Livermore. Ilarness, C. H. Corcy. Ilarness, C. H. Corcy. Ilarness, C. H. Corcy. Harvester, J. H. Elward Harvester, J. H. Flward Harvester, J. J. Piggott. Hats, blocking, II. V. Snow Health lift, H. U. Johnson Hides, drying, J. Finnigan. Hoc, G. Wright. Holdback, W. P. White. Hoof parer, Burroughs & Carrothers Hook, button, S. M. Brougham.	177,286 177,076 177,269 177,269 177,091 177,315 177,315 177,328 177,228 177,230 177,001 177,001 177,001 177,001 177,098 177,281 177,281 177,281 177,281 177,281 177,281 177,270 177,69 177,791 177,181 177,181 177,181 177,191	Umbrella tip cup, F. S. Brow Vacuum pan, J. Fairburn Valve gear, exhaust, G. H. C. Valve grinding machine, W. Vehicle hub and axle, A. B. Vichele spring, W. F. Whitn Ventilator, A. J. Robinson Vessels, water closet for, A. Vise, J. E. Brundage Voltaic battery, I. L. Pulver Wagon body, extension, J. I. Wagons, side bar, E. Soper. Wagon spring, G. W. Marbie Washing machine, S. L. Den Watch ratchet stop, etc., J. Water closet for vessels, A. Water wheel, turbine, T. Ho Whip socket, T. L. Whitaer Window blind, metallic, M, Window, show, O. B. Potter
Flat Iron stove lid, G. R. Moore. Fork, horse hay, J. L. Saunders. Fornace, house-heating, Peterson & Irwin Furnace, negenerator, F. H. Elchbaum Gage, water, J. Nicholas. Garbage box, B. Burling Gas making, W. H. Tupper. Gate, sliding, S. E. Daniel. Gearing, frictional, M. Ray Generator, sectional steam, B. Densmore Glass melting furnace, E. Jones. Glassware, making, A. A. Adams Grinding machine, roll, G. Gavit (r). Gypsum, treating, C. T. Tomkins. Hammer, spring power, R. F. Livermore. Ilarness, C. H. Corcy Harrow, P. J. Jacoby Harvester, J. H. Elward. Harvester, J. J. Plggott. Hats, blocking, II. V. Snow Health lift, H. U. Johnson Hides, drying, J. Finnigan. Hoc, G. Wright. Hoof parer, Burroughs & Carrothers Hook, button, S. M. Brougham. Horseshoe nalis, finishing, N. W. Goodrich Hose pipe adjustable nozzle, T. Haley.	177,286 177,076 177,076 177,269 177,091 177,091 177,314 177,278 177,281 177,181 177,087 7,102 177,087 7,102 177,098 177,193 177,195 177,291 177,270 177,270 177,111 177,271 177,271 177,271 177,271 177,271 177,271 177,271 177,271 177,271 177,271 177,271 177,271 177,271 177,271 177,271 177,271 177,271 177,271	Umbrella tip cup. F. S. Brow Vacuum pan, J. Fairburn Valve gear, exhaust, G. H. C. Valve grinding machine, W. Vchicle hub and axle, A. B. Vchicle spring, W. F. Whitn Vchilator, A. J. Robinson Vessels, water closet for, A. Visc, J. E. Brundagc Voltaic battery, I. L. Pulver Wagon body, extension, J. IWagons, side bar, E. Soper. Wagon spring, G. W. Marble Washing machine, S. L. Den Watch ratchet stop, etc., J. Water closet for vessels, A. Water wheel, turbine, T. Ho Whip socket, T. L. Whitacr Windwheel, W. Bowes Window, show, O. B. Potter Yarn, etc., making rosettes DESIGNS F. 9,272.—HASSOCKS.—A. A. Ge 9,273.—STATUE.—H. Gebhar
Flat Iron stove lid, G. R. Moore. Fork, horse hay, J. L. Saunders. Furnace, house-heating, Peterson & Irwin Furnace, negenerator, F. H. Elchbaum Gage, water, J. Nicholas. Garbage box, B. Burling Gas making, W. H. Tupper. Gate, sliding, S. E. Daniel. Gearing, frictional, M. Ray Generator, sectional steam, B. Densmore Glass mclting furnace, E. Jones. Glassware, making, A. A. Adams. Grinding machine, roll, G. Gavit (P). Gypsum, treating, C. T. Tomkins. Hammer, spring power, R. F. Livermore. Ilarness, C. H. Corcy Ilarrow, P. J. Jacoby y arvester, J. H. Elward. Harvester, J. H. Elward. Harvester, J. H. Flward. Harvester, J. J. Piggott. Hats, blocking, II. V. Snow Health lift, H. U. Johnson. Hides, drying, J. Finnigan. Hoc, G. Wright. Holdback, W. P. White. Hoof parer, Burroughs & Carrothers Hook, button, S. M. Brougham. Horseshoe nails, finishing, N. W. Goodrich.	177,286 177,076 177,076 177,269 177,091 177,091 177,315 177,315 177,315 177,278 177,223 177,230 177,091 177,091 177,091 177,091 177,098 177,123 177,231 177,231 177,270 177,193 177,270 177,191 177,111 177,311 177,311 177,311 177,111 177,311 177,111 177,111 177,111 177,111 177,111 177,111 177,111 177,111 177,111 177,111	Umbrella tip cup, F. S. Brow Vacuum pan, J. Fairburn Valve gear, exhaust, G. H. C. Valve grinding machine, W. Vchicle hub and axle, A. B. Vchicle hub and axle, A. B. Vchicle hub and axle, A. B. Vchicle spring, W. F. Whitn Vchiclator, A. J. Robinson Vcssels, water closet for, A. Vise, J. E. Brundage Voltaic battery, I. L. Pulver Wagon body, extension, J. I. Wagons, side bar, E. Soper. Wagon spring, G. W. Marbie Washing machine, S. L. Den Watch ratchet stop, etc., J. Water closet for vessels, A. Water wheel, turbine, T. Ho Whip socket, T. L. Whitaer Window blind, metallic, M, Window, show, O. B. Potter Yarn, etc., making rosettes DESIGNS F. 9,272.—Hassocks.—A. A. Ge
Flat Iron stove lid, G. R. Moore. Fork, horse hay, J. L. Saunders. Furnace, house-heating, Peterson & Irwin Furnace, negenerator, F. H. Elchbaum Gage, water, J. Nicholas. Garbage box, B. Burling Gas making, W. H. Tupper. Gate, sliding, S. E. Daniel. Gearing, frictional, M. Ray Generator, sectional steam, B. Densmore Glass melting furnace, E. Jones. Glassware, making, A. A. Adams. Grinding machine, roll, G. Gavit (r). Gypsum, treating, C. T. Tomkins. Hammer, spring power, R. F. Livermore. Ilarness, C. H. Corcy Ilarrows, P. J. Jacoby. Jarvester, J. H. Elward. Harvester, J. H. Elward. Harvester, J. H. Elward. Harvester, J. J. Piggott. Hats, blocking, II. V. Snow. Health lift, H. U. Johnson. Hides, drying, J. Finnigan. Hoc, G. Wright. Holdback, W. P. White. Hoof parer, Burroughs & Carrothers Hook, button, S. M. Brougham. Horseshoe nalls, finishing, N. W. Goodrich. Hose pipe adjustable nozzle, T. Haley. Ice creeper, Abrahams & Rummig. Ice pick, H. F. Dernell. Injector, W. B. Mack.	177,286 177,076 177,076 177,269 177,091 177,091 177,314 177,273 177,223 177,087 7,102 177,087 7,102 177,081 177,123 177,123 177,123 177,241 177,270 177,271 177,271 177,111 177,271 177,111	Umbrella tip cup. F. S. Brow Vacuum pan, J. Fairburn Valve gear, exhaust, G. H. C. Valve grinding machine, W. Vchicle hub and axle, A. B. Vchicle spring, W. F. Whitn Vchicle by Fring, W. F. Whitn Vchilator, A. J. Robinson Vessels, water closet for, A. Visc, J. E. Brundage Voltaic battery, I. L. Pulver Wagon body, extension, J. Wagons, side bar, E. Soper. Wagon spring, G. W. Marble Washing machine, S. L. Den Watch ratchet stop, etc., J. Water closet for vessels, A. Water wheel, turbine, T. Ho Whip socket, T. L. Whitaer Wind wheel, W. Bowes Window, ill, E. Williamson Window, show, O. B. Potter Yarn, etc., making rosettes DESIGNS F. 9,272.—HASSOCKS.—A. A. G. 9,273.—STATUE.—H. Gebhare, 9,274.—FENCES.—J. E. Rick, 9,275.—CANISTER.—J. B. Bo
Flat Iron stove lid, G. R. Moore. Fork, horse hay, J. L. Saunders. Furnace, house-heating, Peterson & Irwin Furnace, negenerator, F. H. Elchbaum Gage, water, J. Nicholas. Garbage box, B. Burling Gas making, W. H. Tupper. Gate, sliding, S. E. Daniel. Gearing, frictional, M. Ray Generator, sectional steam, B. Densmore Glass melting furnace, E. Jones. Glassware, making, A. A. Adams. Grinding machine, roll, G. Gavit (P). Gypsum, treating, C. T. Tomkins. Hammer, spring power, R. F. Livermore. Ilarness, C. H. Corcy Ilarrow, P. J. Jacoby 11 arvester, J. H. Elward. Harvester, J. H. Elward. Harvester, J. J. Piggott. Hats, blocking, II. V. Snow Health lift, H. U. Johnson Hides, drying, J. Finnigan. Hoc, G. Wright. Hook parer, Burroughs & Carrothers Hook, button, S. M. Brougham. Horseshoe nails, finishing, N. W. Goodrich Hose pipe adjustable nozzle, T. Haley Ice plek, H. F. Dernell.	177,286 177,076 177,269 177,269 177,091 177,315 177,315 177,315 177,315 177,223 177,230 177,007 7,102 177,301 177,098 177,123 177,231 177,231 177,231 177,231 177,231 177,231 177,231 177,231 177,231 177,231 177,231 177,231 177,231 177,231 177,231 177,231 177,231 177,231 177,193 177,231 177,193 177,193 177,193 177,193 177,193 177,193 177,193 177,193 177,193 177,193 177,193 177,193 177,195 177,106 177,106	Umbrella tip cup. F. S. Brow Vacuum pan, J. Fairburn Valve gear, exhaust, G. H. C. Valve grinding machine, W. Vehicle hub and axle, A. B. Vchicle spring, W. F. Whitn Ventilator, A. J. Robinson Vessels, water closet for, A. Vise, J. E. Brundage Voltaic battery, I. L. Pulver Wagon body, extension, J. I. Wagons, side bar, E. Soper. Wagon spring, G. W. Marble Washing machine, S. L. Den Watch ratchet stop, etc., J. Water closet for vessels, A. Water wheel, turbine, T. Ho Whip socket, T. L. Whitaer Wind wheel, W. Bowes Winding, E. Willamson Window, show, O. B. Potter Yarn, etc., making rosettes 19,273.—STATUE.—H. Gebhard 9,274.—FENCES.—J. E. Rick 9,275.—CANISTER.—J. B. Bo
Flat Iron stove lid, G. R. Moore. Fork, horse hay, J. L. Saunders. Furnace, house-heating, Peterson & Irwin Furnace, negenerator, F. H. Elchbaum Gage, water, J. Nicholas. Garbage box, B. Burling Gas making, W. H. Tupper. Gate, sliding, S. E. Daniel. Gearing, frictional, M. Ray Generator, sectional steam, B. Densmore Glass mclting furnace, E. Jones. Glassware, making, A. A. Adams Grinding machine, roll, G. Gavit (P). Gypsum, treating, C. T. Tomkins. Hammer, spring power, R. F. Livermore. Ilarness, C. H. Corcy Ilarrow, P. J. Jacoby y arvester, J. H. Elward. Harvester, J. H. Elward. Harvester, J. H. Elward. Harvester, J. J. Piggott. Hats, blocking, II. V. Snow Health lift, H. U. Johnson. Hides, drying, J. Finnigan. Hoc, G. Wright. Hook pare, Burroughs & Carrothers Hook, button, S. M. Brougham. Horseshoe nails, finishing, N. W. Goodrich Hose pipe adjustable nozzle, T. Haley Ice creeper, Abrahams & Rummig. Ice clek, H. F. Dernell. Injector, W. B. Mack. Inkstank, J. Oesterling. Invalids, supporting rest for, P. T. Clement. Ironing board, Catt & Harrod.	177,286 177,076 177,076 177,280 177,269 177,091 177,315 177,314 177,273 177,087 7,102 177,087 7,102 177,081 177,193 177,193 177,231 177,241 177,270 177,270 177,271 177,111 177,127 177,111 177,128 177,291 177,197 177,291 177,197 177,291 177,197 177,197 177,291 177,197 177,197 177,197 177,198	Umbrella tip cup. F. S. Brow Vacuum pan, J. Fairburn Valve gear, exhaust, G. H. C. Valve gear, exhaust, G. H. C. Valve gerinding machine, W. Vehicle hub and axle, A. B. Vchicle spring, W. F. Whitn Ventilator, A. J. Robinson Vessels, water closet for, A. Vise, J. E. Brundage Voltaic battery, I. L. Pulver Wagon body, extension, J. I. Wagons, side bar, E. Soper. Wagon spring, G. W. Marble Washing machine, S. L. Den Watch ratchet stop, etc., J. Water closet for vessels, A. Water wheel, turbine, T. Ho Whip socket, T. L. Whitacr Wind wheel, W. Bowes Window, show, O. B. Potter Yarn, etc., making rosettes DESIGNS F. 9,272.—HASSOCKS.—A. A. G. 9,273.—STATUE.—H. Gebhard, 9,274.—Fences.—J. E. Ricke, 9,275.—Canister.—J. B. Bo [A copy of any one of the
Flat Iron stove lid, G. R. Moore. Fork, horse hay, J. L. Saunders. Furnace, house-heating, Peterson & Irwin Furnace, regenerator, F. H. Elchbaum Gage, water, J. Nicholas. Garbage box, B. Burling Gas making, W. H. Tupper. Gate, sliding, S. E. Daniel. Gearing, frictional, M. Ray Generator, sectional steam, B. Densmore Glass melting furnace, E. Jones. Glassware, making, A. A. Adams Grinding machine, roll, G. Gavit (P) Gypsum, treating, C. T. Tomkins. Hammer, spring power, R. F. Livermore. Harness, C. H. Corcy Harrow, P. J. Jacoby Harvester, J. H. Elward Harvester, J. H. Elward Harvester, J. J. Piggott. Hats, blocking, H. V. Snow Health lift, H. U. Johnson Hides, drying, J. Finnigan Hoc, G. Wright. Holdback, W. P. White. Hoof parer, Burroughs & Carrothers Hook, button, S. M. Brougham. Horseshoe nails, finishing, N. W. Goodrich Hose pipe adjustable nozzle, T. Haley Lice creeper, Abrahams & Rummig Lice pick, H. F. Dernell. Injector, W. B. Mack. Invalids, supporting rest for, P. T. Clement.	177,286 177,076 177,081 177,289 177,091 177,091 177,314 177,278 177,281 177,192 177,087 7,102 177,087 7,102 177,098 177,193 177,193 177,291 177,270 177,271	Umbrella tip cup, F. S. Brow Vacuum pan, J. Fairburn Valve gear, exhaust, G. H. C. Valve grinding machine, W. Vehicle hub and axle, A. B. Vchicle hub and axle, A. B. Vchicle hub and axle, A. B. Vchicle spring, W. F. Whitn Ventilator, A. J. Robinson Vessels, water closet for, A. Vise, J. E. Brundage Voltaic battery, I. L. Pulver Wagon body, extension, J. Wagons, side bar, E. Soper. Wagon spring, G. W. Marble Washing machine, S. L. Den Watch ratchet stop, etc., J. Water closet for vessels, A. Water wheel, turbine, T. Ho Whip socket, T. L. Whitaer Wind wheel, W. Bowes Window blind, metallic, M, Window, show, O. B. Potter Yarn, etc., making rosettes DESIGNS F. 9,272.—HASSOCKS.—A. A. G. 9,273.—STATUE.—H. Gebhar 9,274.—FENCES.—J. E. Rick 9,275.—CANISTER.—J. B. Bo IA Copy of any one of the remitting one dollar to Mux York city.
Flat Iron stove lid, G. R. Moore. Fork, horse hay, J. L. Saunders. Furnace, house-heating, Peterson & Irwin Furnace, negenerator, F. H. Elchbaum Gage, water, J. Nicholas. Garbage box, B. Burling Gas making, W. H. Tupper. Gate, sliding, S. E. Daniel. Gearing, frictional, M. Ray Generator, sectional steam, B. Densmore Glass mclting furnace, E. Jones. Glassware, making, A. A. Adams Grinding machine, roll, G. Gavit (P). Gypsum, treating, C. T. Tomkins. Hammer, spring power, R. F. Livermore. Ilarness, C. H. Corcy Ilarrow, P. J. Jacoby	177,286 177,076 177,076 177,091 177,091 177,091 177,091 177,091 177,091 177,091 177,091 177,091 177,097 7,102 177,097 177,098 177,193 177,193 177,291 177,291 177,291 177,197 177,197 177,291 177,197 177,291 177,291 177,197 177,197 177,197 177,197 177,197 177,197 177,197 177,197 177,197 177,197 177,197 177,197 177,197 177,197 177,197 177,197 177,197 177,197 177,197 177,198	Umbrella tip cup. F. S. Brow Vacuum pan, J. Fairburn Valve gear, exhaust, G. H. C. Valve grinding machine, W. Vehicle hub and axle, A. B. Vchicle spring, W. F. Whitn Ventilator, A. J. Robinson Vessels, water closet for, A. Vise, J. E. Brundage Voltaic battery, I. L. Pulver Wagon body, extension, J. I. Wagons, side bar, E. Soper. Wagon spring, G. W. Marble Washing machine, S. L. Den Watch ratchet stop, etc., J. Water closet for vessels, A. Water wheel, turbine, T. Ho Whip socket, T. L. Whitaer Wind wheel, W. Bowes Winding, E. Willamson Window, show, O. B. Potter Yarn, etc., making rosettes 19,273.—STATUE.—H. Gebhard 9,274.—FENCES.—J. E. Rick 9,275.—CANISTER.—J. B. Bo
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Flat Iron stove lid, G. R. Moore. Fork, horse hay, J. L. Saunders. Furnace, house-heating, Peterson & Irwin Furnace, negenerator, F. H. Elchbaum Gage, water, J. Nicholas. Garbage box, B. Burling Gas making, W. H. Tupper. Gate, sliding, S. E. Daniel. Gearing, frictional, M. Ray Generator, sectional steam, B. Densmore Glass mclting furnace, E. Jones. Glassware, making, A. A. Adams. Grinding machine, roll, G. Gavit (P). Gypsum, treating, C. T. Tomkins. Hammer, spring power, R. F. Livermore. Ilarness, C. H. Corcy Ilarrow, P. J. Jacoby	177,286 177,076 177,269 177,315 177,315 177,315 177,315 177,315 177,315 177,316 177,087 7,102 177,087 7,102 177,081 177,123 177,281 177,281 177,291 177,271 177,111 177,271 177,111 177,271 177,111 177,311 177,271 177,187 177,287 177,187 177,187 177,087 177,187 177,087 177,087 177,087 177,087 177,087 177,087 177,087 177,181 177,192 177,192 177,191 177,192 177,191 177,192 177,191 177,192 177,191 177,192 177,191 177,191 177,192 177,191 177,191 177,192 177,191 177,191 177,191 177,192 177,191	Umbrella tip cup. F. S. Brow Vacuum pan, J. Fairburn Valve gear, exhaust, G. H. C. Valve grinding machine, W. Vehicle hub and axle, A. B. Vchicle spring, W. F. Whitn Vehicle hub and axle, A. B. Vchicle spring, W. F. Whitn Ventilator, A. J. Robinson Vessels, water closet for, A. Vise, J. E. Brundage Voltaic battery, I. L. Pulver Wagon body, extension, J. I. Wagons, side bar, E. Soper. Wagon spring, G. W. Marbie Washing machine, S. L. Den Watch ratchet stop, etc., J. Water closet for vessels, A. Water wheel, turbine, T. Ho Whip socket, T. L. Whitacr Wind wheel, W. Bowes Window, show, O. B. Potter Yarn, etc., making rosettes DESIGNS F. 9,272.—HASSOCKS.—A. A. G. 9,273.—STATUE.—H. Gebhary 9,274.—FENCES.—J. E. Rick 9,275.—CANISTER.—J. B. Bo [A copy of any one of the remitting one dollar to Mux York city. SCHEDULE OF On each Caveat
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	177,18 nt 177,27 7,10

9,272.—HASSOCKS.—A. A. Ganlard, Brooklyn, N. Y. 9,273.—Statue.—H. Gebhard, New York city. 9,274.—Fences.—J. E. Ricker, Lock Haven, Pa. ,275.—CANISTER.—J. B. Bohrman, Philadelphia, Pa.

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