- (38) H. T. R. asks: What boat ever made swer. I want some harder metal which can be poured the fastest time from New York to Albany? A. It is and will not cut the guides. A. You can harden Babbitt stated that the trip of the Chauucey Vibbard from New metal by melting it and addinga quantity of antimony York to Albany in six hours and twenty minutes, April 18, 1876, is the fastest on record. If any of our we would be glad to hear from them.
- (39) R. J. K. asks: How fast will a 15 foot and 4 miles an hour.
- (40) R. S., Jr., asks: What size engine, boiler, and propeller would work to the best advantage in a small boat 15 feet long and 5 feet beam, and what speed may I expect to obtain in smooth water? A. Boiler 24 inches diameter, 31/2 feet high. Cylinder 21/2 by 3 inches. Propeller, 18 to 30 inches diameter, 30 inches pitch. Probable speed 5 to 6 miles an hour.
- (41) J. W. W. asks: Can you send me a prescription for weak kidneys? A. You should consult is the number of our correspondents, so wide the rang a physician.

- Thickness of the boiler iron 36 of an inch. A. We do Astronomical queries by a practical astronomer. Chemi faults of construction and deterioration by use,
- (43) J. C. asks; Why do propeller shafts break? A. In such cases as have come to our notice, the cause was insufficient strength, either by reason of being too small, or on account of imperfections.
- cylinder 4, has it the same power as a 4 x 8? A. See CAN. These, with the replies, are printed; the remainp. 33, vol. 33.
- (45) R. W. K. says: I have a steam boiler 30" x 42", 18 2" tubes (party from whom I bought it respondents desire a special reply by post, but very few said it was a 5 horse power boiler); how large an engine, of them are thoughtful enough to inclose so much as a screw, and boat could this run, and what speed? I have a small 2 cylinder oscillating engine, each cylinder is reply by mail if the writer were to inclose a small fee, a 2" x 2". How large a boiler should I use to run my boat (12 feet x 31/2 feet) with side wheels, for safety? the case. When we cannot furnish the information, the A. See pp. 33 and 225, vol. 33.
- (46) B. C. M. says: I think G. W. W., July 28 (31), would find the information he desires in Thomas Oxley's "Gem of the Astrial Sciences," in ceived from the following correspondents, and which the author treats at length on the construction of planispheres
- inch iron was cut with two threads, one right and the .- The clay is of a low quality and would not probably other left handed, commenced opposite and of the same pay to mine for market. It might be used in the vicinpitch, would the screw enter a nut cut with the same ity for the manufacture of bricks and some kinds of potthreads, the same pitch? A. Yes, but if the threads tery. The other specimen is not logwood extract but were fine and of small pitch, the thread in the nut would be nearly obliterated.
- (48) T. E. asks: What is enamel made of, and how is it put on iron? A. Enamel is a species of vitreous varnish, colored with metallic oxides, applied in a thin stratum to metallic surfaces. In small articles it is fused on the surface by the flame of a blowpipe and in larger articles by means of the heat of a furnace, Ordinary enamel is common glass fused with oxide of lead. Hollow ware is enameled by a mixture of powdered glass, borax, and carbonate of soda, mixed, fused, cooled and ground. The ware is cleaned with acid, wetted with gum water, the powder dusted on, and then fused by heat carefully applied.
- (49) L. D. asks for a good ink that has a pale color when first written, then turning to a deep black. A. For 1 quart of ink take Aleppo galls 4 ozs., soft water 1 quart; macerate in a clean corked bottle for ten or twelve days with frequent agitation; then add 1¼ oz. gum arabic dissolved in a wine glassfull of water, ½ oz. lump sugar. Afterward add 1½ oz. sulphate of iron; agitate occasionally for two or three days, when the ink may be decanted for use, but it is better if the whole be left to digest together for two or three weeks When time is an object, the whole ingredients may be put into the bottle at once and agitated daily until the ink is made, and boiling water may be used instead of
- (50) S. T. asks for the process of making an impression of a photograph on glass. A. In photographing on glass the clean plate is first coated with a thin, uniform film of collodion (gum cotton dissolved in ether and alcohol) containing a little ammonium iodide or bromide, and often similar salts of cadmium. While the film is still moist, the plate is immersed in the dark in a bath of silver nitrate dissolved in water. This causes the film of collodion to become filled with insoluble iodide and bromide of silver, and in a few minutes the plate is ready to be placed (wet) in the camera and exposed therein for half a minute, more or less. On re- that, for good reasons, the Editor declines them. The moval from the camera it is treated in the dark room, first with a strong aqueous solution of ferrous sulphate (copperas), which developes the picture, and then, after of inventions, assignments, etc., will not be published washing, immersed in a fixing bath, which may be either here. All such questions, when initials only are given, a solution of sodium hyposulphite, or of potassium cyanide. The photograph is finished by washing with our paper to print them all; but we generally take pleaswater, drying, and coating with a film of transparent ure in answering briefly by mail, if the writer's address varnish. In the Woodbury and similar processes for is given. preparing glass photographic transparencies, the picture is printed with a fatty ink from the impression in a plate of zinc of a photographic gelatin bichromate film. Consult Vogel's "Chemistry of Light and Photography."
- (51) J. L. & Co. ask: By what method can we temper the blades of our steam shears, so that they will stand to cut old saw blades or any thin tempered steel? A. Harden as for ordinary tempering and draw the temper to a bright straw color.
- (52) J. C. says: I have an engine which requires lining up on the crosshead. Having no adjustable gibs I pour in Babbitt metal, which does not an- | way be expeditiously obtained.

- (53) G. L. L. says: What is the new process of coating old table knives so they look like silver? readers possess records of faster time over this route, A man has been collecting knives and plating or coating them so they look like silver. He claims they will last for years and that it is neither silver or nickel but some boat go with a screw propeller 12 inches in diameter and kind of metal which is kept secret and that no battery 18 inches pitch, a boiler 12 x 20 inches, cylinder 11/2 is used. A. The coating may be of tin, or an alloy of inches, bore 3 inches stroke. A. Probably between 3 this with some other metal, applied to the clean blades by simply dipping in a bath of the molten metal under suitable conditions. We cannot say positively, from your statements. Such a coating would not be very durable.

It has been our custom for thirty years past to devote a considerable space to the answering of questions by correspondents; so useful have these labors proved that the Scientific American office has become the factorum. or headquarters, to which everybody sends, who wants specialinformationupon any particular subject. So large of their inquiries, so desirous are we to meet their wants Is an improvement in link motion for steam engines and supply correct information, that we are obliged to patentable? Are any links on locomotives patented? employ the constant assistance of a considerable staff of A. Certainly it is. There have been many patents re-experienced writers, who have the requisite knowledge lating to link motion, and it would be well for you to or access to the latest and best sources of information. study up the subject and become acquainted with the For example, questions relating to steam engines, boilmost advanced practice before attempting to effect im- ers, boats, locomotives, railways, etc., are considered and answered by a professional engineer of distinguished (42) E. H. R. asks: Is it safe to carry 120 ability and extensive practical experience. Inquiries lbs. steam on a boiler of the following description: Di. relating to electricity are answered by one of the most ameter 48 inches, length 26 feet, four 12 inch flues. able and prominent practical electricians in this country. not think that this figure allows a sufficient margin for cal inquiries by one of our most eminent and experienced professors of chemistry; and so on through all the various departments. In this way we are enabled to answer the thousands of questions and furnish the large mass of information which these correspondence columns present. The large number of questions sentthey pour in upon us from all parts of the world-ren-(44) A. A. McN. asks: What is the horse dersitimpossible forus to publish all. The editor selects power of a 4 x 8 steam engine when worked up to its from the mass those that he thinks most likely to be of fullest capacity, also if the length of stroke is 7 and the general interest to the readers of the Scientific Amerider go into the waste basket. Many of the rejected questions are of a primitive or personal nature, which should be answered by mail; in fact, hundreds of corpostage stamp. We could in many cases send a brief dollar or more, according to the nature or importance of money is promptly returned to the sender

> MINERALS, ETC.—Specimens have been reexamined, with the results stated:

J. J. S .- The clay may be used for brick and tile ma-(47) Machinist says: Suppose a piece of king, etc. It is too impure for fine pottery.-C. W. G. asphalt .- S. L. P .- It consists principally of oxide of iron. The glimmering particles are magnetite. The specimen in bottle will be noticed subsequently.-G. G. -It is iron pyrites. See p. 7, vol. 36, Scientific Amer-ICAN.-D. C. S.-It is magnetite-magnetic oxide of iron.-H. C .- It consists of lime carbonate and a little clay, sand, and oxide of iron. Properly calcined it might yield a good lime or cement, but it does not excel as a polishing powder.-D. L. P., Curagao, South Amer ica.—The sample of cave earth much resembles bat manure, as the per cent of organic matter and ammonia is very small. It contains a large quantity of phos -principally calcium phosphate-together with some lime carbonate, a little iron and silicates-clay and sand. If treated with oil of vitriol so as to form the superphosphate it would be of some value as a fertilizer, alone or mixed with others. Its value could not be named even approximately, until a quantitative an alysis determines its composition.

COMMUNICATIONS RECEIVED.

The Editor of the Scientific American acknowledges vith much pleasure, the receipt of original papers and ontributions upon the following subjects:

On a Puzzle of Ropes and Pulleys. By A Subscriber On Bacteria. By F. G. Fairfield.

On How to Draw an Octagen. By I. M.

On a Lightning Draughtsman Also inquiries and answers from the following: A. A. R.—P. G. H.—W. C. C.—M. B. M.—T. D. S.— J. A. McC,-J, M.-E. M.-H, F.-J. W,-E, F.-O. C.

-C. B. C. HINTS TO CORRESPONDENTS.

We renew our request that correspondents, in referring to former answers or articles, will be kind enough to name the date of the paper and the page, or the number of the question.

Correspondents whose inquiries fail to appear should

repeat them. If not then published, they may conclude address of the writer should always be given.

Inquiries relating to patents, or to the patentability are thrown into the waste basket, as it would fill half of

Hundreds of inquiries analogous to the following are sent: "Who makes covering for steam pipes, to prevent radiation of heat? Who makes steam road engmes? Who makes steam pumps? Who makes instruments to assist the hearing of deaf persons? makes kerosene lamps suitable for lighting cotton mills? Who makes a utensil for scrubbing, made of iron rings?" All such personal inquiries are printed, as will be observed, in the column of "Business and Per sonal," 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

OFFICIAL.

INDEX OF INVENTIONS

FOR WHICH

Letters Patent of the United States were Granted in the Week Ending July 17, 1877,

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 furnished from this office for one dollar. In ordering, please state the number and date of the patent desired, and remit to Munn & Co., 37 Park Row, New York city.

Anchor points, W. N. Fisher	193,237
Animal trap, F. E. Rice (r)	7.798
Ash sifter, Dean & Kingsbury Bale tie, R. G. Stewart.	193,230
Baling press, B. F. Miller	193,265
Balloon, W. Beckley	193,148
Bed bottom, O. Brewster Bed spring, J. A. Johntry	193,218
Beer cask, M. Brand	193,074
Billiard table, W. GardnerBinder, T. Orton	193,156 193,128
Bobbin holder, Slater & Ball Boiler, tube expander for, O. Pagan	193,290
Book binding, E. S. Boynton	193,109
Book binding, O. & J. S. Routh Book coverprotector, C. B. Browne	193,183 193,139
Book, memorandum. W. A. Cooke Boot, etc., machine, M. V. B. & F. N. Ethridge.	193,146
Boot crimper, A. T. Moore	193,310
Bottle stopper, A. E. Rich (r) Brake, H. L. Perrine	7,797 193,279
Brake, J. Raddin	193,178
Brickmachine, J. L. Haws	193,245
Brush, R. BisbeeBrush, A. Worthington	193,137 193,308
Buckle, S. Ward Burglar alarm, B. N. Bailey	193,303
Burglar alarm, J. C. Mackie	193,260
Button mold, A. Alexander, JrButter worker, E. D. & E. W. Kitchen (r)	7,793
Canal boat propeller, J. Tascher	193,196 193 147
Car axle box, O. Tomlinson (r)	7,800
Car coupling, G. W. Mathews	7,795
Car, T. Purviance	193,281 193,101
Car, G. W. Bemis	193,214
Car replacer, J. B. Barnes	193,232
Carpet bags, A. Kaufmann	193,162
Cartridge implement, C. Eutebrouk	193,150
Chair fan attachment, C. F. Ruset	
Churn, D. A. Fiske	193,151 193,119
Cloth-finishing machine, Springborn & Baush	193,193
Cloth-measuring machine, T. M. Brintnall Clothes drier, C. B. Koon	193,164
Clothes drier, J. Simmons	193,132 193,143
Coating metal rollers, H. Wilde	193,204
Composition, H. Bayle	193,214
Cordage, C. E. Brownell	193,141
Corn sheller, C. D. Read	193,141 193,130 193,200
Corn sheller, C. D. Read	193,141 193,130 193,200
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing. W. A. Smith	193,141 193,130 193,200 193,203 193,094 193,299
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne	193,141 193,130 193,200 193,203 193,094 193,299 193,251 193,239
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp	193,141 193,200 193,203 193,094 193,299 193,251 193,239 193,115 193,300
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell	193,141 193,130 193,200 193,203 193,094 193,299 193,251 193,239 193,115 193,300 193,222
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis.	193,141 193,130 193,200 193,203 193,094 193,299 193,251 193,239 193,115 193,300 193,222 193,249 193,154
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis. Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz	193,141 193,130 193,200 193,203 193,094 193,299 193,251 193,239 193,115 193,300 193,222 193,249 193,154 193,172 193,158
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit	193,141 193,130 193,203 193,203 193,094 193,299 193,251 193,300 193,229 193,229 193,224 193,154 193,172 193,172 193,158 193,080
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis. Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland	193,141 193,130 193,200 193,293 193,299 193,251 193,239 193,151 193,300 193,222 193,154 193,154 193,172 193,153 193,154 193,172 193,154
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Feed trough, A. J. Rush Fence, D. R. Ostrander	193,141 193,130 193,200 193,203 193,203 193,209 193,251 193,239 193,115 193,300 193,154 193,154 193,158 193,306 193,306 193,306 193,316 193,316 193,316
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Feed trough, A. J. Rush Feence, D. R. Ostrander. File, D. H. Thomas	193,141 193,200 193,200 193,209 193,299 193,251 193,239 193,239 193,222 193,249 193,154 193,154 193,154 193,154 193,155 193,306 193,111 193,185 193,296
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Feed trough, A. J. Rush Fence, D. R. Ostrander File, D. H. Thomas Fire arm, revolving, D. Moore Fire escape, Lewis & Holman	193,141 193,200 193,200 193,209 193,299 193,299 193,251 193,390 193,152 193,152 193,158 193,158 193,158 193,158 193,158 193,274 193,158 193,296 193,274 193,274 193,274 193,296 193,296
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Feed trough, A. J. Rush Frence, D. R. Ostrander File, D. H. Thomas Fire arm, revolving, D. Moore Fire escape, Lewis & Holman Fire escape, Lewis & Holman Fire escape, E. R. Menzel	193,141 193,130 193,200 193,293 193,094 193,299 193,115 193,239 193,115 193,300 193,172 193,172 193,172 193,183 193,181 193,274 193,274 193,269 193,269 193,269 193,269 193,269
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Frence, D. R. Ostrander File, D. H. Thomas Fire arm, revolving, D. Moore Fire escape, Lewis & Holman Fire escape, C. Palatini Firuit drier, S. R. Griffith Fire fire, S. R. Griffith	193,141 193,130 193,200 193,203 193,094 193,299 193,251 193,299 193,151 193,152 193,154 193,154 193,154 193,159 193,306 193,292 193,294 193,306 193,296 193,296 193,296 193,296 193,296 193,296 193,296 193,296
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotothkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Feed trough, A. J. Rush Frence, D. R. Ostrander File, D. H. Thomas Fire arm, revolving, D. Moore Fire escape, Lewis & Holman Fire escape, C. Palatini Fiuting machine, C. Felder Fruit drier, S. R. Griffith Fuel, machine for pressing, etc., J. E. Hackett	193,141 193,130 193,200 193,203 193,004 193,209 193,251 193,239 193,151 193,300 193,222 193,249 193,158 193,169 193,306 193,269 193,269 193,269 193,269 193,269 193,269
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Freed trough, A. J. Rush Fence, D. R. Ostrander File, D. H. Thomas Fire arm, revolving, D. Moore Fire escape, Lewis & Holman Fire escape, E. R. Menzel Fruting machine, C. Felder Fruit drier, S. R. Griffith Fuel, machine for pressing, etc., J. E. Hackett Frunace, J. J. Jarves Grain binder, J. H. Gordon	193,141 193,290 193,292 193,293 193,294 193,293 193,295 193,29
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Frence, D. R. Ostrander File, D. H. Thomas Fire arm, revolving, D. Moore Fire escape, Lewis & Holman Fire escape, C. Palatini Fluting machine, C. Felder Fruit drier, S. R. Griffith Fuel, machine for pressing, etc., J. E. Hackett Furnace, J. J. Jarves. Grain binder, O. O. Storle	193,141 193,200 193,203 193,094 193,299 193,251 193,299 193,151 193,292 193,292 193,294 193,172 193,180 193,193 193,396 193,296 193,296 193,296 193,296 193,296 193,296 193,296 193,296 193,296 193,296 193,296 193,296 193,296
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Freed trough, A. J. Rush Fence, D. R. Ostrander File, D. H. Thomas Fire scape, Lewis & Holman Fire escape, Lewis & Holman Fire escape, Lewis & Holman Fire escape, C. Palatini Fluting machine, C. Felder Fruit drier, S. R. Griffith Fuel, machine for pressing, etc., J. E. Hackett Furnace, J. J. Jarves Grain binder, J. H. Gordon Grain drier, T. S. Morris	193,141 193,200 193,203 193,094 193,299 193,251 193,299 193,215 193,172 193,172 193,152 193,172 193,152 193,172 193,153 193,172 193,153 193,172 193,153 193,172 193,173 193,173 193,174 193,264 193,274
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish vasher, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Feed trough, A. J. Rush Fence, D. R. Ostrander File, D. H. Thomas Fire arm, revolving, D. Moore Fire escape, Lewis & Holman Fire escape, E. R. Menzel Fruit drier, S. R. Griffith Fuel, machine for pressing, etc., J. E. Hackett Furnace, J. J. Jarves Grain binder, J. H. Gordon Grain binder, O. O. Storle Grain drill, Brennan, Taylor, & Lynam Grain elevator and bag filler, G. R. Hockenhull. Grate bar, J. R. Kelly	193,141 193,290 193,291 193,291 193,291 193,291 193,291 193,293 193,291 193,291 193,291 193,291 193,291 193,291 193,291 193,291 193,195 193,291 193,195 193,291 193,195 193,291 193,195 193,291 193,195 193,291 193,195 193,291 193,29
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Freed trough, A. J. Rush Fence, D. R. Ostrander File, D. H. Thomas Fire arm, revolving, D. Moore Fire escape, Lewis & Holman Fire escape, C. Palatini Fire iscape, C. Palatini Fruting machine, C. Felder Fruit drier, S. R. Griffith Fuel, machine for pressing, etc., J. E. Hackett Furnace, J. J. Jarves Grain binder, J. H. Gordon Grain drier, T. S. Morris Grain drier, T. S. Morris Grain drill, Brennan, Taylor, & Lynam Grain elevator and bag filler, G. R. Hockenhull Grate bar, J. R. Kelly Grate, L. P. Rider Grinding machine, G. W. Jones	193,141 193,290 193,291 193,29
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish deaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Feed trough, A. J. Rush Fence, D. R. Ostrander Ffile, D. H. Thomas Fire escape, Lewis & Holman Fire escape, E. R. Menzel Frier drier, S. R. Griffith Ffuel, machine for pressing, etc., J. E. Hackett Furnace, J. J. Jarves Grain binder, J. H. Gordon Grain binder, J. H. Gordon Grain binder, O. O. Storle Grain drier, T. S. Morris Grain drill, Brennan, Taylor, & Lynam Grain binder, J. R. Kelly Grate, L. P. Rider Grinding machine, G. W. Jones Hair switch, S. J. Wells	193,141 193,200 193,203 193,204 193,205 193,20
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Freed trough, A. J. Rush Fence, D. R. Ostrander File, D. H. Thomas Fire escape, Lewis & Holman Fire escape, Lewis & Holman Fire escape, C. Palatini Fruitng machine, C. Felder Fruit drier, S. R. Griffith Fuel, machine for pressing, etc., J. E. Hackett Furnace, J. J. Jarves Grain binder, O. O. Storle Grain drier, T. S. Morris Grain drier, T. S. Morris Grain clevator and bag filler, G. R. Hockenhull Grate bar, J. R. Kelly Grate, L. P. Rider Harrow, O. Slagle Harrow, O. Slagle Harrow, O. Slagle	193,141 193,200 193,203 193,004 193,203 193,004 193,203 193,004 193,203 193,004 193,203 193,004 193,105 193,20
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Feed trough, A. J. Rush Fence, D. R. Ostrander File, D. H. Thomas Fire arm, revolving, D. Moore Fire escape, E. R. Menzel Fruet drier, S. R. Griffith Fuel, machine for pressing, etc., J. E. Hackett Furnace, J. J. Jarves Grain binder, J. H. Gordon Grain binder, O. O. Storle Grain drill, Brennan, Taylor, & Lynam Grain elevator and bag filler, G. R. Hockenhull Grate bar, J. R. Kelly Grate, L. P. Rider Grinding machine, G. W. Jones Hair switch, S. J. Wells Harrow, O. Slagle Harvester, J. H. Elward Harvester, J. W. Levalley	193,141 193,290 193,269 193,269 193,269 193,269 193,274 193,279 193,27
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Freed trough, A. J. Rush Fence, D. R. Ostrander File, D. H. Thomas Fire escape, Lewis & Holman Fire escape, Lewis & Holman Fire escape, E. R. Menzel Fruit drier, S. R. Griffith Fuel, machine, C. Felder Fruit drier, S. R. Griffith Fuel, machine, C. Felder Grain binder, J. H. Gordon Grain binder, J. H. Gordon Grain drier, T. S. Morris Grain drier, T. S. Morris Grain drier, J. R. Kelly Grate, L. P. Rider Grinding machine, G. W. Jones Harrow, O. Slagle Harvester, G. Esterly Harvester, G. Esterly Harvester, G. M. Mayfield	193,141 193,293 193,294 193,295 193,296 193,295 193,29
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish vasher, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Feed trough, A. J. Rush Fence, D. R. Ostrander File, D. H. Thomas Fire arm, revolving, D. Moore Fire escape, Lewis & Holman Fire escape, E. R. Menzel Fruit drier, S. R. Griffith Fuel, machine for pressing, etc., J. E. Hackett Furnace, J. J. Jarves Grain binder, O. O. Storle Grain drill, Brennan, Taylor, & Lynam Grain elevator and bag filler, G. R. Hockenhull Grate bar, J. R. Kelly Grate, L. P. Rider Grinding machine, G. W. Jones Hair switch, S. J. Wells Harrow, O. Slagle Harvester, J. H. Elward Harvester, J. H. Elward Harvester, G. Esterly Harvester, G. W. Levalley Harvester, G. W. Levalley Harvester, W. B. Mayfield Harvester, W. B. Mayfield	193,141 193,154 193,154 193,154 193,154 193,154 193,155 193,269 193,155 193,269 193,155 193,269 193,155 193,269 193,155 193,269 193,155 193,274 193,157 193,155 193,274 193,157 193,269 193,155 193,274 193,157 193,269 193,151 193,369 193,151 193,160 193,16
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish vasher, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Feed trough, A. J. Rush Fence, D. R. Ostrander File, D. H. Thomas Fire arm, revolving, D. Moore Fire escape, Lewis & Holman Fire escape, E. R. Menzel Freit drier, S. R. Griffith Full machine for pressing, etc., J. E. Hackett Furnace, J. J. Jarves Grain binder, J. H. Gordon Grain binder, O. O. Storle Grain drill, Brennan, Taylor, & Lynam Grain elmer, T. S. Morris Grain drill, Brennan, Taylor, & Lynam Grain binder, O. O. Storle Grain drier, T. R. Kelly Grate, L. P. Rider Grinding machine, G. W. Jones Hair switch, S. J. Wells Harrow, O. Slagle Harvester, G. Esterly Harvester, G. Esterly Harvester, G. Esterly Hay press, F. Boalt Hay press, F. Boalt Heating, etc., apparatus, B. Holly	193,141 193,267 193,274 193,274 193,274 193,274 193,275 193,27
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish vasher, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Feed trough, A. J. Rush Fence, D. R. Ostrander File, D. H. Thomas Fire arm, revolving, D. Moore Fire escape, Lewis & Holman Fire escape, E. R. Menzel Fruit drier, S. R. Griffith Fuln, machine for pressing, etc., J. E. Hackett Furnace, J. J. Jarves Grain binder, O. O. Storle Grain drill, Brennan, Taylor, & Lynam Grain elevator and bag filler, G. R. Hockenhull Grate bar, J. R. Kelly Grate, L. P. Rider Grinding machine, G. W. Jones Hair switch, S. J. Wells Harrow, O. Slagle Harvester, J. H. Elward Harvester, G. Esterly Harvester, G. Esterly Harvester, G. Esterly Harvester, G. W. Levalley Harvester, W. B. Mayfield Harvester, W. B. Mayfield Harvester, W. B. Mayfield Harvester, W. B. Mayfield Harvester, S. Johnston Hay elevator, Banks & Coning Hay press, F. Boalt Heel stiffener, C. Y. Gardner	193,141 193,292 193,125 193,244 193,131 193,263 193,294 193,251 193,299 193,251 193,299 193,251 193,299 193,251 193,299 193,251 193,299 193,25
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler. Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne. Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis. Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Feed trough, A. J. Rush Fence, D. R. Ostrander Ffle, D. H. Thomas Fire arm, revolving, D. Moore Fire escape, Lewis & Holman Ffut drier, S. R. Griffith Ffutl machine for pressing, etc., J. E. Hackett Frunace, J. J. Jarves Grain binder, J. H. Gordon Grain binder, O. O. Storle Grain drill, Brennan, Taylor, & Lynam Grain binder, O. O. Storle Grain drill, Brennan, Taylor, & Lynam Grain binder, J. R. Kelly Grate, L. P. Rider Grainding machine, G. W. Jones Hair switch, S. J. Wells Harrow, O. Slagle Harvester, C. W. Levalley Harvester, C. Esterly Harvester, C. Baker Heating, etc., apparatus, B. Holly Heel stiffener, C. Y. Gardner Hinge, spring, G. Greer Hoe handle, W. R. Littleton	193,141 193,120 193,209 193,203 193,204 193,209 193,205 193,20
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Freed trough, A. J. Rush Fence, D. R. Ostrander File, D. H. Thomas Fire arm, revolving, D. Moore Fire escape, E. R. Menzel Fire escape, E. R. Menzel Fire trit drier, S. R. Griffith Fuel, machine for pressing, etc., J. E. Hackett Furnace, J. J. Jarves Grain binder, J. H. Gordon Grain binder, J. H. Gordon Grain drier, T. S. Morris Grain drien, S. J. Relly Grate, L. P. Rider Harvester, G. Esterly Harvester, G. Esterly Harvester, G. W. Levalley Harvester, G. W. Levalley Harvester, W. R. Mayfield Harvester, S. Johnston Hay press, F. Boalt Heating, etc., apparatus, B. Holly Heel stiffener, C. Y. Gardner Hog-catching apparatus, I. E. Winchell Hoop machine, G. B. Selden (r).	193,141 193,293 193,294 193,294 193,295 193,294 193,295 193,29
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish vasher, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Feed trough, A. J. Rush Fence, D. R. Ostrander File, D. H. Thomas Fire arm, revolving, D. Moore Fire escape, Lewis & Holman Fire escape, E. R. Menzel Fruit drier, S. R. Griffith Fuel, machine for pressing, etc., J. E. Hackett Furnace, J. J. Jarves Grain binder, O. O. Storle Grain drill, Brennan, Taylor, & Lynam Grain drill, Brennan, Taylor, & Lynam Grain delevator and bag filler, G. R. Hockenhull Grate bar, J. R. Kelly Grate, L. P. Rider Grinding machine, G. W. Jones Harvester, G. Esterly Harvester, G. Esterly Harvester, G. Esterly Harvester, G. Esterly Harvester, G. W. Levalley Harvester, G. Esterly Harvester, G. W. Levalley Harvester, G. W. Levalley Harvester, G. Esterly Heel stiffener, C. Y. Gardner Hinge, spring, G. Greer Hoe handle, W. R. Littleton Hog-catching apparatus, I. E. Winchell Hoop machine, G. R. Selden (r) Horse hay rake, W. Adriance	193,141 193,154 193,162 193,162 193,173 193,269 193,269 193,274 193,175 193,269 193,274 193,175 193,274 193,175 193,274 193,175 193,274 193,175 193,274 193,175 193,274 193,175 193,274 193,175 193,274 193,175 193,274 193,175 193,274 193,175 193,274 193,175 193,274 193,175 193,274 193,175 193,274 193,175 193,274 193,175 193,274 193,175 193,27
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Freed trough, A. J. Rush Fence, D. R. Ostrander File, D. H. Thomas Fire escape, E. R. Menzel Fire escape, E. R. Menzel Fire escape, E. R. Menzel Frire thring machine, C. Felder Fruit drier, S. R. Griffith Fuel, machine for pressing, etc., J. E. Hackett Furnace, J. J. Jarves Grain binder, J. H. Gordon Grain binder, J. H. Gordon Grain drill, Brennan, Taylor, & Lynam Grain dreir, T. S. Morris Grain drill, Brennan, Taylor, & Lynam Grain drill, Spensan, Spensan	193,141 193,293 193,294 193,294 193,294 193,295 193,29
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Feed trough, A. J. Rush Fence, D. R. Ostrander File, D. H. Thomas Fire scape, Lewis & Holman Fire escape, Lewis & Holman Fire escape, C. Palatini Fivel, machine, C. Felder Fruit drier, S. R. Griffith Fuel, machine for pressing, etc., J. E. Hackett Furnace, J. J. Jarves Grain binder, J. H. Gordon Grain drier, T. S. Morris Grain drier, T. S. Morris Grain drier, T. S. Morris Grain drier, J. R. Kelly Grate, L. P. Rider Grate bar, J. R. Kelly Grate bar, J. R. Kelly Grate, L. P. Rider Harvester, G. Esterly Harvester, G. Esterly Harvester, G. W. Levalley Harvester, S. Johnston Hay elevator, Banks & Coning Hay press, F. Boalt Heating, etc., apparatus, B. Holly Heel stiffener, C. Y. Gardner Hoe handle, W. R. Littleton Hog-catching apparatus, B. Holly Horse hay rake, W. Adriance Hose coupling, C. F. Littlejohn Hot alt runnace, G. T. Flint Hydrantvalve, F. Shriver	193,141 193,293 193,294 193,294 193,295 193,29
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Feed trough, A. J. Rush Fence, D. R. Ostrander File, D. H. Thomas Fire arm, revolving, D. Moore Fire escape, Lewis & Holman Fire escape, Lewis & Holman Fire escape, C. Palatini Fluting machine, C. Felder Fruit drier, S. R. Griffith Fuel, machine for pressing, etc., J. E. Hackett Furnace, J. J. Jarves Grain binder, J. H. Gordon Grain binder, J. H. Gordon Grain drier, T. S. Morris Grain elevator and bag filler, G. R. Hockenhull Grate bar, J. R. Kelly Grate, L. P. Rider Grinding machine, G. W. Jones Hair switch, S. J. Wells Hair switch, S. J. Wells Harvester, G. Esterly Harvester, G. Bisterly Harvester, G. W. Levalley Harvester, S. Johnston Hay elevator, Banks & Coning Hay press, F. Boalt Heating, etc., apparatus, B. Holly Heel stiffener, C. Y. Gardner Hoe handle, W. R. Littleton Hog-catching apparatus, I. E. Winchell Hotose hay rake, W. Adriance Hoose coupling, C. F. Littlejohn Hotose hay rake, W. Adriance Hotose coupling, C. F. Littlejohn Hotose hay rake, W. Adriance Hotose coupling, C. F. Firtlein Hotair furnace, G. T. Flint Hydranlic press, A. H. Emery (r) 7,790, Ice creeper, H. Antes.	193,141 193,265 193,264 193,274 193,274 193,275 193,284 193,275 193,285 193,29
Cordage, C. E. Brownell Corn sheller, C. D. Read Corset, I. D. V. & L. C. Warner Cotton, treating, F. G. Wheeler Cotton cleaner, R. Kitson Counterfeiting, preventing, W. A. Smith Curry comb, C. A. Hotchkiss Curtain fixture, A. Fontayne Cutlery, Hallas, Flower, & Pearson Dental engine, G. W. Tripp Dish cleaner, D. C. Buell Dish washer, J. J. Hoffman Door check, J. Francis Dredge bucket, J. McSpirit Dyeing yarn, etc., W. J. S. Grawitz Ellipticspring, A. French Emery wheels, W. W. White Faucets, W. Cleveland Feed trough, A. J. Rush Fence, D. R. Ostrander File, D. H. Thomas Fire escape, Lewis & Holman Fire escape, E. R. Menzel Frier escape, E. R. Menzel Fruit drier, S. R. Griffith Fuch, machine for pressing, etc., J. E. Hackett Furnace, J. J. Jarves Grain binder, O. O. Storle Grain drill, Brennan, Taylor, & Lynam Grain elevator and bag filler, G. R. Hockenhull Grate bar, J. R. Kelly Grate, L. P. Rider Grinding machine, G. W. Jones Hair switch, S. J. Wells Harrow, O. Slagle Harvester, J. H. Elward Harvester, G. Esterly Harvester, G. Esterly Harvester, G. Esterly Harvester, G. H. Elward Harvester, G. H. Elward Hay press, F. Boalt Heating, etc., apparatus, I. E. Winchell Hoop machine, G. R. Jittlejon Hot air furnace, G. T. Flint Hydrantvalve, F. Shiver Hydrantvalve, F. Shiver Hydrantvalve, F. Shiver Hydrantvalve, F. Shiver Hemery C. T. Sider Hydrantvalve, F. Shiver Hydrantvalve, F. Shiver Hydraulic press, A. H. Emery (r) 7,790, Ice creeper, H. Antes.	193,141 193,200 193,203 193,204 193,203 193,204 193,205 193,215 193,115 193,115 193,117 193,117 193,127 193,127 193,128 193,217 193,21

- 1	Lamp bracket, J. Forster. Lamp burner, A. W. Sangster.	193,15
	Lantern, O. I. King	193,25
İ	Latch, etc., G. F. Joyce Leather-crimping machine, J. Smith	193,093 193,191
	Leather-cutting gage, J. Potter (r)	
	Lifting jack, W. Z. Black	
	Lubricating compound, J. H. Pitt	
	Match safe, E. K. Haynes	
	Milk cooler, E. F. Preston	193,177
	Mould for casting, S. H. Bingham	193,072
	Motion, converting, T. Tascher	193,197
	Mower, H. L. Hopkins	193,250
•	Musical instruments, W. Spethmann	
	Nut lock, J. A. Nicols	193,215
•	Oil can, W. H. Bartels	193,212
	Oil can, J. Fleming Oil can holder, G. D. Clark	193,142
	Oil well tubing, L. Patterson	193,278
	Ores, etc., A. B. Paul (r) Overalls, J. Wallach	7,794 193,199
	Overalls, S. H. Emanuel	193,149
	Pail, P. Hickey Paper cutting, etc., G. L. Jaeger	193,247 193 161
i	Paper cutting machine, clamp for, J. Keith	193,256
•	Paper holder, A. Newbury	
į	Parer, apple, W. E. Brock	
ĺ	Pedometer, B. S. Church	193,224
i	Pen and pencil case, J. B. Smith Pen, H. C. Benson	193,190
1	Pen holder, A. S. Hubbell	193,118
İ	Pen holder, P. Schrag Pipe coupling, R. H. Moss	
	Pipe couplings, E. Griffin	193,082
	Pitcher, E. A. Parker	193,277
	Plaiting machine, H. B. Rorke	193,131
	Planter, W. L. Chism	193,110
	Planter, Lancaster & Schull	193,129
	Planter, W. Moores	193,268
	Plow, Lauer & Hartmann (r)	193,10
	Plow, T. J. Crump	193,22
	Plow, J. L. Florence	193,152
	Press, H. W. Clum	193,144
	Printing press, J. Milligan	193,000 193,27
	Pump, J. W. Collins	193,145
	Pump, E. Daggett	
	Railroad, W. H. & H. M. Stow	193,291
	Railroad switch, J. H. Ainsworth	193,206
	Road scraper, U. & L. L. Thompson	193,297
	Rotary engine, J. Davenport	193,229 193,139
i	Rotary engine, A. Vivarttas	
	Safe and vault, Taylor & Williams	193,293
•	Safes, door and hinge, P. F. King (r)	193,120
	Sand conveyer, R. C. Garcia	
	Sash fastener, E. Leverich	
i		193,124
!	Saw mill gage, F. Wheeler	193,124 193,202 193,182
!	Saw mill gage, F. Wheeler	193,124 193,202 193,182 193,209
!!!!	Saw mill gage, F. Wheeler Saw set and file guide, H. C. Root Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall Seed heaters, R. Macdonald	193,124 193,202 193,182 193,209 193,270 193,168
!!!!	Saw mill gage, F. Wheeler Saw set and file guide, H. C. Root Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Sewer cleaner, C. Loscher.	193,124 193,202 193,182 193,209 193,276 193,168 193,096
	Saw mill gage, F. Wheeler Saw set and file guide, H. C. Root Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall Seed heaters, R. Macdonald Sewer cleaner, C. Loscher Sewer, trap, J. B. Moore Sewing machine, G. H. Thiele	193,124 193,202 193,182 193,209 193,266 193,266 193,266 193,294
	Saw mill gage, F. Wheeler Saw set and file guide, H. C. Root Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall Seed heaters, R. Macdonald Sewer cleaner, C. Loscher Sewer, trap, J. B. Moore Sewing machine, G. H. Thiele Sewing machines, H. A. Blanchard	193,124 193,202 193,182 193,209 193,276 193,096 193,266 193,294 193,216
i !: ii	Saw mill gage, F. Wheeler Saw set and file guide, H. C. Root Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Sewer cleaner, C. Loscher Sewer, trap, J. B. Moore Sewing machine, G. H. Thiele Sewing machines, H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady	193,124 193,202 193,182 193,203 193,270 193,168 193,096 193,260 193,294 193,216 193,173 193,217
i !: ii	Saw mill gage, F. Wheeler Saw set and file guide, H. C. Root Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall Seed heaters, R. Macdonald Sewer cleaner, C. Loscher Sewer, trap, J. B. Moore Sewing machine, G. H. Thiele Sewing machines, H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell	193,124 193,202 193,182 193,203 193,270 193,168 193,096 193,260 193,294 193,175 193,217 193,217 193,217
i !: ii	Saw mill gage, F. Wheeler Saw set and file guide, H. C. Root Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Sewer cleaner, C. Loscher. Sewer, trap, J. B. Moore. Sewing machine, G. H. Thiele. Sewing machines, H. A. Blanchard Shade holder, G. H. Reck. Shears, T. H. Brady Sheet metal can, G. W. Bell. Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman.	193,124 193,202 193,182 193,209 193,270 193,168 193,090 193,260 193,294 193,179 193,217 193,108 193,077 193,309
i !: ii	Saw mill gage, F. Wheeler Saw set and file guide, H. C. Root Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall Seed heaters, R. Macdonald Sewer cleaner, C. Loscher Sewer, trap, J. B. Moore Sewing machine, G. H. Thiele Sewing machines, H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd	193,124 193,202 193,182 193,203 193,277 193,168 193,266 193,294 193,216 193,217 193,108 193,077 193,309
i !: ii	Saw mill gage, F. Wheeler Saw set and file guide, H. C. Root Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Sewer cleaner, C. Loscher. Sewer, trap, J. B. Moore. Sewing machine, G. H. Thiele. Sewing machine, H. A. Blanchard Shade holder, G. H. Reck. Shears, T. H. Brady Sheet metal can, G. W. Bell. Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch	193,124 193,205 193,185 193,206 193,266 193,266 193,266 193,294 193,175 193,217 193,106 193,095 193,095 193,095 193,117 193,255
i !: ii	Saw mill gage, F. Wheeler Saw set and file guide, H. C. Root Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Sewer cleaner, C. Loscher. Sewer, trap, J. B. Moore. Sewing machine, G. H. Thiele. Sewing machines, H. A. Blanchard Shade holder, G. H. Reck. Shears, T. H. Brady Sheet metal can, G. W. Bell. Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace.	193,124 193,205 193,185 193,206 193,266 193,266 193,296 193,216 193,175 193,217 193,106 193,097 193,309 193,117 193,225 193,242
i !: ii	Saw mill gage, F. Wheeler Saw sta and file guide, H. C. Root Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Sewer cleaner, C. Loscher Sewer, trap, J. B. Moore Sewing machine, G. H. Thiele Sewing machines, H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott.	193,124 193,205 193,185 193,206 193,266 193,266 193,294 193,216 193,175 193,216 193,106 193,094 193,117 193,225 193,237 193,247 193,247 193,247 193,247
i !: ii	Saw mill gage, F. Wheeler Saw set and file guide, H. C. Root Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Sewer cleaner, C. Loscher. Sewer, trap, J. B. Moore. Sewing machine, G. H. Thiele. Sewing machine, G. H. Thiele. Sewing machines, H. A. Blanchard Shade holder, G. H. Reck. Shears, T. H. Brady Sheet metal can, G. W. Bell. Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace. Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp mill, H. H. Scoville, Jr.	193,124 193,202 193,205 193,206 193,266 193,266 193,296 193,216 193,217 193,217 193,306 193,096 193,117 193,222 193,242 193,737 193,242 193,737 193,242 193,737 193,242
i !: ii	Saw mill gage, F. Wheeler Saw stand file guide, H. C. Root Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald Sewer cleaner, C. Losscher Sewer, trap, J. B. Moore Sewing machine, G. H. Thiele Sewing machines, H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp mill, H. H. Scoville, Jr Stamp, revenue, E. A. Locke Steam boller, Allen & Farrington	193,124 193,202 193,202 193,203 193,203 193,204 193,094 193,214 193,174 193,077 193,303 193,212 193,212 193,213 193,074 193,213 193,21
i !: ii	Saw mill gage, F. Wheeler Saw set and file guide, H. C. Root Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Sewer cleaner, C. Loscher. Sewer, trap, J. B. Moore. Sewing machine, G. H. Thiele. Sewing machine, G. H. A. Blanchard Shade holder, G. H. Reck. Shears, T. H. Brady Sheet metal can, G. W. Bell. Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace. Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp mill, H. H. Scoville, Jr Stamp, revenue, E. A. Locke Steam boiler, J. Hughes	193,124 193,207 193,207 193,207 193,207 193,207 193,207 193,207 193,217 193,07
i !: ii	Saw mill gage, F. Wheeler Saw stand file guide, H. C. Root Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Seed heaters, R. Macdonald. Sewer cleaner, C. Loscher Sewer, trap, J. B. Moore. Sewing machine, G. H. Thiele Sewing machines, H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell. Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace. Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp mill, H. H. Scoville, Jr Stamp, revenue, E. A. Locke. Steam boiler, Allen & Farrington Steam boiler, Allen & Farrington Steam boiler, Millen & Feely. Steam valve, W. Andrews.	193,124 193,205 193,206 193,206 193,206 193,206 193,206 193,206 193,207 193,217 193,007 193,007 193,10
i !: ii	Saw mill gage, F. Wheeler Saw stand file guide, H. C. Root Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Sewer cleaner, C. Loscher. Sewer, trap, J. B. Moore. Sewing machine, G. H. Thiele Sewing machine, G. H. Thiele Sewing machines, H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace. Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp mill, H. H. Scoville, Jr Stamp, revenue, E. A. Locke Steam boiler, Allen & Farrington Steam boiler, J. Hughes Steam boiler, J. Hughes Steam valve, W. Andrews Stone quarrying machine, J. B. McRae	193,124 193,205 193,205 193,276 193,276 193,297 193,297 193,297 193,217
i !: ii	Saw mill gage, F. Wheeler Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Seed heaters, R. Macdonald. Sewer cleaner, C. Loscher Sewer, trap, J. B. Moore. Sewing machine, G. H. Thiele Sewing machine, G. H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell. Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace. Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp mill, H. H. Scoville, Jr Stamp, revenue, E. A. Locke Steam boiler, Allen & Farrington Steam boiler, Millen & Feely. Steam valve, W. Andrews Etone quarrying machine, J. B. McRae Stove, B. Duerstock. Stove, Thompson & Knappenberger	193,124 193,202 193,202 193,206 193,276 193,161 193,161 193,206 193,206 193,216 193,077 193,307 193,307 193,202 193,216 193,216 193,217 193,202 193,217 193,103 193,10
i !: ii	Saw mill gage, F. Wheeler Saw stand file guide, H. C. Root Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Sewer cleaner, C. Loscher Sewer, trap, J. B. Moore Sewing machine, G. H. Thiele Sewing machine, G. H. Thiele Sewing machines, H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp mill, H. H. Scoville, Jr Stamp, revenue, E. A. Locke Steam boiler, J. Hughes Steam boiler, J. Hughes Steam boiler, J. Hughes Steam valve, W. Andrews Cone quarrying machine, J. B. McRae Stove, B. Duerstock Strainer, Guillemin & Lehman	193,124 193,205 193,205 193,276 193,276 193,295 193,297 193,297 193,297 193,21 193,217 193,217 193,217 193,217 193,217 193,217 193,217 193,217
	Saw mill gage, F. Wheeler Saw set and file guide, H. C. Root Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Sewer cleaner, C. Loscher. Sewer, trap, J. B. Moore. Sewing machine, G. H. Thiele Sewing machine, G. H. Thiele Sewing machines, H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell. Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace. Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp mill, H. H. Scoville, Jr Stamp, india rubber, S. B. Scott. Steam boiler, Allen & Farrington Steam boiler, J. Hughes Steam boiler, Millen & Feely. Steam valve, W. Andrews Etone quarrying machine, J. B. McRae Stove, B. Duerstock Stove, Thompson & Knappenberger Strainer, Guillemin & Lehman Straw cutter, Silberzahn & Hayssen.	193,124 193,264 193,266 193,276 193,276 193,276 193,276 193,276 193,276 193,277 193,277 193,077 193,077 193,077 193,07 193,171
	Saw mill gage, F. Wheeler Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Seed heaters, R. Macdonald. Sewer cleaner, C. Losscher Sewer, trap, J. B. Moore Sewing machine, G. H. Thiele Sewing machines, H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott Stamp mill, H. H. Scoville, Jr Stamp, revenue, E. A. Locke Steam boiler, Allen & Farrington Steam boiler, Allen & Farrington Steam boiler, Millen & Feely Steam valve, W. Andrews Etone quarrying machine, J. B. McRae Stove, B. Duerstock Stove, Thompson & Knappenberger Strainer, Guillemin & Lehman Straw cutter, Silberzahn & Hayssen Street guide, M. J. Vieira Tan bark, process, J. J. Johnston	193,124 193,202 193,205 193,206 193,276 193,206 193,276 193,207 193,207 193,207 193,207 193,307 193,10
	Saw mill gage, F. Wheeler Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Seed heaters, R. Macdonald. Seewer cleaner, C. Loscher Sewer, trap, J. B. Moore. Sewing machine, G. H. Thiele Sewing machine, G. H. Thiele Sewing machine, G. H. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell. Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace. Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp mill, H. H. Scoville, Jr Stamp, revenue, E. A. Locke Steam boiler, Allen & Farrington Steam boiler, Allen & Farrington Steam boiler, M. Hughes Steam boiler, M. Hughes Steam boiler, M. Boerstock Stove, Thompson & Knappenberger Strainer, Guillemin & Lehman Straw cutter, Silberzahn & Hayssen. Street guide, M. J. Vieira Tan bark, process, J. J. Johnston Tank regulator, A. Fuller (r). Thread, etc., art of making, A. R. Arnold.	193,124 193,207 193,208 193,208 193,208 193,208 193,208 193,208 193,208 193,218 193,077 193,077 193,079 193,077 193,079 193,079 193,178 193,079 193,178 193,079 193,178 193,079 193,178 193,079 193,178 193,288 193,178 193,288 193,178 193,288 193,17
	Saw mill gage, F. Wheeler Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Seed heaters, R. Macdonald. Sewer cleaner, C. Loscher. Sewer, trap, J. B. Moore. Sewing machine, G. H. Thiele. Sewing machines, H. A. Blanchard Shade holder, G. H. Reck. Shears, T. H. Brady Sheet metal can, G. W. Bell. Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace. Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp, hand, H. W. Bardwell Stamp, revenue, E. A. Locke. Steam boiler, Allen & Farrington Steam boiler, Allen & Farrington Steam boiler, Millen & Feely. Steam valve, W. Andrews Etone quarrying machine, J. B. McRae. Stove, B. Duerstock. Stove, Thompson & Knappenberger Strainer, Guillemin & Lehman Straw cutter, Silberzahn & Hayssen. Street guide, M. J. Vieira. Tan bark, process, J. J. Johnston Tank regulator, A. Fuller (r). Thread, etc., art of making, A. R. Arnold. Toy buzz, J. B. Wells.	193,124 193,205 193,206 193,206 193,206 193,206 193,206 193,206 193,206 193,207 193,207 193,307 193,307 193,307 193,20
	Saw mill gage, F. Wheeler Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Seeder cleaner, C. Loscher Sewer, trap, J. B. Moore Sewing machine, G. H. Thiele Sewing machine, G. H. Thiele Sewing machines, H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott Stamp mill, H. H. Scoville, Jr Stamp, revenue, E. A. Locke Steam boiler, J. Hughes Steam boiler, J. Hughes Steam boiler, J. Hughes Steam valve, W. Andrews Loone quarrying machine, J. B. McRae Stove, B. Duerstock Stove, Thompson & Knappenberger Strainer, Guillemin & Lehman Straw cutter, Silberzahn & Hayssen Stread, G. A. Fuller (r) Thread, etc., art of making, A. R. Arnold Toy buzz, J. B. Wells. Trunk hinge, J. Arnold.	193,124 193,207
	Saw mill gage, F. Wheeler Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Seed heaters, R. Macdonald. Seewer cleaner, C. Loscher Sewer, trap, J. B. Moore. Sewing machine, G. H. Thiele Sewing machine, G. H. Thiele Sewing machines, H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell. Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace. Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp mill, H. H. Scoville, Jr Stamp, revenue, E. A. Locke. Steam boiler, Allen & Farrington Steam boiler, Allen & Farrington Steam boiler, Millen & Feely. Steam valve, W. Andrews Etone quarrying machine, J. B. McRae Stove, B. Duerstock Stove, Thompson & Knappenberger Strainer, Guillemin & Lehman Straw cutter, Silberzahn & Hayssen. Street guide, M. J. Vieira Tan bark, process, J. J. Johnston Tank regulator, A. Fuller (r). Thread, etc., art of making, A. R. Arnold. Turbine wheel, Risdon & Tyler	193,124 193,225 193,266 193,266 193,266 193,266 193,266 193,266 193,266 193,276 193,277 193,307 193,20
	Saw mill gage, F. Wheeler Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Seeder cleaner, C. Loscher Sewer, trap, J. B. Moore Sewing machine, G. H. Thiele Sewing machine, G. H. Thiele Sewing machines, H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp mill, H. H. Scoville, Jr Stamp, revenue, E. A. Locke Steam boller, Allen & Farrington Steam boller, J. Hughes Steam boller, J. Hughes Steam valve, W. Andrews Etone quarrying machine, J. B. McRae Stove, B. Duerstock Stove, Thompson & Knappenberger Strainer, Guillemin & Lehman Straw cutter, Silberzahn & Hayssen Street guide, M. J. Vieira Tan bark, process, J. J. Johnston Tank regulator, A. Fuller (r) Thread, etc., art of making, A. R. Arnold Turbine wheel, Risdon & Tyler Vaccinating instrument, T. S. Brinkerhoff. Valve, W. J. Westwood	193,124 193,207 193,207 193,207 193,207 193,207 193,207 193,207 193,207 193,207 193,207 193,007 193,007 193,007 193,007 193,107 193,007 193,107 193,007 193,107 193,107 193,20
	Saw mill gage, F. Wheeler Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Seed heaters, R. Macdonald. Seewer cleaner, C. Loscher Sewer, trap, J. B. Moore. Sewing machine, G. H. Thiele Sewing machine, G. H. Thiele Sewing machine, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell. Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace. Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp mill, H. H. Scoville, Jr Stamp, revenue, E. A. Locke Steam boiler, Allen & Farrington Steam boiler, Millen & Feely. Steam valve, W. Andrews Etone quarrying machine, J. B. McRae Stove, B. Duerstock Stove, Thompson & Knappenberger Strainer, Guillemin & Lehman Straw cutter, Silberzahn & Haysen. Street guide, M. J. Vieira Tan bark, process, J. J. Johnston Tank regulator, A. Fuller (r) Thread, etc., art of making, A. R. Arnold. Toy buzz, J. B. Wells. Trunk hinge, J. Arnold. Turbine wheel, Risdon & Tyler Vaccinating instrument, T. S. Brinkerhoff. Valve, W. J. Westwood Vehicle holdback, A. B. Roberts Velocipede, J. H. Nolan.	193,124 193,262 193,262 193,262 193,262 193,262 193,262 193,262 193,272 193,273 193,27
	Saw mill gage, F. Wheeler Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Seed heaters, R. Macdonald. Sewer cleaner, C. Loscher Sewer, trap, J. B. Moore Sewing machine, G. H. Thiele Sewing machines, H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott Stamp mill, H. H. Scoville, Jr Stamp, revenue, E. A. Locke Steam boiler, Allen & Farrington Steam boiler, Allen & Feely Steam boiler, Millen & Feely Steam boiler, Millen & Feely Steam valve, W. Andrews Lone quarrying machine, J. B. McRae Stove, B. Duerstock Stove, Thompson & Knappenberger Strainer, Guillemin & Lehman Straw cutter, Silberzahn & Hayssen Street guide, M. J. Vieira Tan bark, process, J. J. Johnston Tank regulator, A. Fuller (r) Thread, etc., art of making, A. R. Arnold Turbine wheel, Risdon & Tyler Vaccinating instrument, T. S. Brinkerhoff. Valve, W. J. Westwood Vehicle holdback, A. B. Roberts Velocipede, J. H. Nolan Ventilating apparatus, M. A. Morton.	193,124 193,207 193,207 193,207 193,207 193,207 193,207 193,207 193,207 193,207 193,007 193,007 193,007 193,007 193,107 193,007 193,107 193,007 193,10
	Saw mill gage, F. Wheeler Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Seed heaters, R. Macdonald. Sewer cleaner, C. Loscher Sewer, trap, J. B. Moore. Sewing machine, G. H. Thiele Sewing machine, G. H. Thiele Sewing machine, G. H. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell. Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace. Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp mill, H. H. Scoville, Jr Stamp, revenue, E. A. Locke Steam boiler, Allen & Farrington Steam boiler, Allen & Farrington Steam walve, W. Andrews Etone quarrying machine, J. B. McRae Stove, B. Duerstock Stove, Thompson & Knappenberger Strainer, Guillemin & Lehman Straw cutter, Silberzahn & Hayssen Street guide, M. J. Vieira Tan bark, process, J. J. Johnston Tank regulator, A. Fuller (r) Thread, etc., art of making, A. R. Arnold Toy buzz, J. B. Wells. Trunk hinge, J. Arnold Turbine wheel, Risdon & Tyler Vaccinating instrument, T. S. Brinkerhoff. Valve, W. J. Westwood Vehicle holdback, A. B. Roberts Velocipede, J. H. Nolan Ventilating apparatus, M. A. Morton Ventilating apparatus, M. A. Morton	193,124 193,282 193,292 193,277 193,277 193,293 193,294 193,29
	Saw mill gage, F. Wheeler Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Seed heaters, R. Macdonald. Sewer cleaner, C. Losscher Sewer, trap, J. B. Moore. Sewing machine, G. H. Thiele Sewing machines, H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell. Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace. Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp mill, H. H. Scoville, Jr. Stamp, revenue, E. A. Locke. Steam boiler, Allen & Farrington Steam boiler, Allen & Farrington Steam boiler, Millen & Feely. Steam valve, W. Andrews Loone quarrying machine, J. B. McRae. Stove, B. Duerstock. Stove, Thompson & Knappenberger Strainer, Guillemin & Lehman Straw cutter, Silberzahn & Hayssen Street guide, M. J. Vieira Tan bark, process, J. J. Johnston Tank regulator, A. Fuller (r). Thread, etc., art of making, A. R. Arnold. Turbine wheel, Risdon & Tyler Vaccinating instrument, T. S. Brinkerhoff. Valve, W. J. Westwood Vehicle holdback, A. B. Roberts Ventilator, E. Leverich Warming buildings, etc., B. Holly. 193,085, 193,085,	193,124 193,262 193,262 193,266 193,266 193,266 193,266 193,266 193,276 193,277 193,202 193,216 193,177 193,202 193,216 193,107 193,10
	Saw mill gage, F. Wheeler Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Seeder cleaner, C. Loscher Sewer, trap, J. B. Moore. Sewing machine, G. H. Thiele Sewing machine, G. H. Thiele Sewing machine, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell. Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace. Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp mill, H. H. Scoville, Jr Stamp, revenue, E. A. Locke Steam boiler, Allen & Farrington Steam boiler, Allen & Farrington Steam valve, W. Andrews Etone quarrying machine, J. B. McRae Stove, B. Duerstock Stove, Thompson & Knappenberger Strainer, Guillemin & Lehman Straw cutter, Silberzahn & Hayssen Street guide, M. J. Vieira Tan bark, process, J. J. Johnston Tank regulator, A. Fuller (r). Thread, etc., art of making, A. R. Arnold Toy buzz, J. B. Wells. Trunk hinge, J. Arnold Turbine wheel, Risdon & Tyler Vaccinating instrument, T. S. Brinkerhoff. Valve, W. J. Westwood Vehicle holdback, A. B. Roberts Velocipede, J. H. Nolan Ventilating apparatus, M. A. Morton Ventilating apparatus, M. A. Morton Ventilator, E. Leverich Warming buildings, etc., B. Holly. 193,085, 193,088, Wash basin, J. Hamilton. Wash basin, J. Hamilton.	193,124 193,262 193,262 193,262 193,262 193,262 193,262 193,262 193,272 193,273 193,27
	Saw mill gage, F. Wheeler Saw stand file guide, H. C. Root Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Seed heaters, R. Macdonald. Sewer cleaner, C. Loscher Sewer, trap, J. B. Moore. Sewing machine, G. H. Thiele Sewing machines, H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell. Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace. Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp mill, H. H. Scoville, Jr. Stamp, revenue, E. A. Locke. Steam boiler, Allen & Farrington Steam boiler, Allen & Farrington Steam boiler, Millen & Feely. Steam valve, W. Andrews Stove, B. Duerstock Stove, Thompson & Knappenberger Strainer, Guillemin & Lehman Straw cutter, Silberzahn & Hayssen. Street guide, M. J. Vieira Tan bark, process, J. J. Johnston Tank regulator, A. Fuller (r). Thread, etc., art of making, A. R. Arnold. Turbine wheel, Risdon & Tyler Vaccinating instrument, T. S. Brinkerhoff. Valve, W. J. Westwood Vehicle holdback, A. B. Roberts Velocipede, J. H. Nolan Ventilating apparatus, M. A. Morton. Ventilating apparatus, M. A. Morton. Ventilator, E. Leverich Warming buildings, etc., B. Holly. 193,085, 193,088, Wash basin, J. H. Lapham. Wash basin, J. H. Lapham.	193,124 193,262 193,262 193,266 193,266 193,266 193,266 193,266 193,266 193,267 193,277 193,202 193,277 193,202 193,277 193,202 193,277 193,202 193,277 193,202 193,277 193,202 193,277 193,202 193,277 193,202 193,277 193,202 193,277 193,202 193,277 193,202 193,20
	Saw mill gage, F. Wheeler Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald Sewer cleaner, C. Loscher Sewer, trap, J. B. Moore Sewing machine, G. H. Thiele Sewing machine, G. H. Thiele Sewing machine, H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell. Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp mill, H. H. Scoville, Jr Stamp, revenue, E. A. Locke Steam boiler, Allen & Farrington Steam boiler, Allen & Farrington Steam boiler, Mendews Etone quarrying machine, J. B. McRae Stove, B. Duerstock Stove, Thompson & Knappenberger Strainer, Guillemin & Lehman Straw cutter, Silberzahn & Hayssen Street guide, M. J. Vieira Tan bark, process, J. J. Johnston Tank regulator, A. Fuller (r) Thread, etc., art of making, A. R. Arnold Toy buzz, J. B. Wells. Trunk hinge, J. Arnold Turbine wheel, Risdon & Tyler Vaccinating instrument, T. S. Brinkerhoff. Valve, W. J. Westwood Vehicle holdback, A. B. Roberts Velocipede, J. H. Nolan Ventilating apparatus, M. A. Morton Ventilator, Car, H. E. Finney Ventilator, Car, H. E. Finney Ventilator, E. Leverich Warming buildings, etc., B. Holly. 193,085, 193,088, Wash basin, J. Hamilton	193,124 193,262 193,262 193,266 193,266 193,266 193,266 193,266 193,276 193,276 193,276 193,276 193,276 193,276 193,276 193,276 193,276 193,276 193,276 193,276 193,276 193,276 193,276 193,276 193,276 193,276 193,277 193,27
	Saw mill gage, F. Wheeler Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Seed heaters, R. Macdonald. Sewer cleaner, C. Loscher Sewer, trap, J. B. Moore Sewing machine, G. H. Thiele Sewing machine, G. H. Thiele Sewing machine, H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell. Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp mill, H. H. Scoville, Jr Stamp, revenue, E. A. Locke Steam boiler, Allen & Farrington Steam boiler, Millen & Feely. Steam valve, W. Andrews Etone quarrying machine, J. B. McRae Stove, B. Duerstock Stove, Thompson & Knappenberger Strainer, Guillemin & Lehman Straw cutter, Silberahn & Hayssen Street guide, M. J. Vieira Tan bark, process, J. J. Johnston Tank regulator, A. Fuller (r) Thread, etc., art of making, A. R. Arnold Toy buzz, J. B. Wells. Trunk hinge, J. Arnold. Turbine wheel, Risdon & Tyler Vaccinating instrument, T. S. Brinkerhoff. Valve, W. J. Westwood Vehicle holdback, A. B. Roberts Velocipede, J. H. Nolan Ventilator, E. Leverich Warming buildings, etc., B. Holly 193,085, 193,088, Wash basin, J. H. Lapham. Wash board, G. W. Hunter. Wash boller, W. A. Kellogg Washing machine, Jenne & Creighton	193,124 193,262 193,277
	Saw mill gage, F. Wheeler Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Seeder cleaner, C. Loscher Sewer, trap, J. B. Moore. Sewing machine, G. H. Thiele Sewing machine, G. H. Thiele Sewing machine, H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell. Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace. Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp mill, H. H. Scoville, Jr Stamp, revenue, E. A. Locke Steam boiler, Allen & Farrington Steam boiler, Allen & Farrington Steam walve, W. Andrews Etone quarrying machine, J. B. McRae Stove, Thompson & Knappenberger Strainer, Guillemin & Lehman Stræt cutter, Silberzahn & Hayssen Street guide, M. J. Vieira Tan bark, process, J. J. Johnston Tank regulator, A. Fuller (r). Thread, etc., art of making, A. R. Arnold Toy buzz, J. B. Wells. Trunk hinge, J. Arnold Turbine wheel, Risdon & Tyler Vaccinating instrument, T. S. Brinkerhoff. Valve, W. J. Westwood Vehicle holdback, A. B. Roberts Velocipede, J. H. Nolan Wentilating apparatus, M. A. Morton Ventilating apparatus, M. A. Morton Ventilator, E. Leverich Warming buildings, etc., B. Holly. 193,085, 193,088, Wash basin, J. H. Lapham. Wash board, G. W. Hunter. Wash boiler, W. A. Kellogg Washing machine, Jenne & Creighton Water closet valve, J. Muirhead Welding chain links, B. Hershey. 193,083, Whip socket, J. H. Sunderman	193,124 193,204 193,205 193,206 193,206 193,206 193,206 193,206 193,207 193,20
	Saw mill gage, F. Wheeler Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Seed heaters, R. Macdonald. Seewer cleaner, C. Loscher Sewer, trap, J. B. Moore Sewing machine, G. H. Thiele Sewing machine, G. H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell. Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp mill, H. H. Scoville, Jr Stamp, revenue, E. A. Locke Steam boiler, Allen & Farrington Steam boiler, Allen & Feely. Steam valve, W. Andrews Etone quarrying machine, J. B. McRae Stove, B. Duerstock Stove, Thompson & Knappenberger Strainer, Guillemin & Lehman Straw cutter, Silberzahn & Hayssen Street guide, M. J. Vieira Tan bark, process, J. J. Johnston Tank regulator, A. Fuller (r) Thread, etc., art of making, A. R. Arnold. Toy buzz, J. B. Wells. Trunk hinge, J. Arnold. Turbine wheel, Risdon & Tyler Vaccinating instrument, T. S. Brinkerhoff. Valve, W. J. Westwood Vehicle holdback, A. B. Roberts Velocipede, J. H. Nolan Ventilator, E. Leverich Warming buildings, etc., B. Holly 193,085, 193,088, Wash basin, J. H. Lapham. Wash board, G. W. Hunter. Wash	193,124 193,262 193,272 193,272 193,273 193,27
	Saw mill gage, F. Wheeler Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Seeder cleaner, C. Loscher Sewer, trap, J. B. Moore. Sewing machine, G. H. Thiele Sewing machine, G. H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell. Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace. Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp mill, H. H. Scoville, Jr Stamp, revenue, E. A. Locke Steam boiler, Allen & Farrington Steam boiler, Allen & Farrington Steam valve, W. Andrews Etone quarrying machine, J. B. McRae Stove, B. Duerstock Stove, Thompson & Knappenberger Strainer, Guillemin & Lehman Stræw cutter, Silberzahn & Hayssen Street guide, M. J. Vieira Tan bark, process, J. J. Johnston Tank regulator, A. Fuller (r). Thread, etc., art of making, A. R. Arnold Toy buzz, J. B. Wells. Trunk hinge, J. Arnold Turbine wheel, Risdon & Tyler Vaccinating instrument, T. S. Brinkerhoff. Valve, W. J. Westwood Vehicle holdback, A. B. Roberts Velocipede, J. H. Nolan Wentilating apparatus, M. A. Morton Ventilating apparatus, M. A. Morton Ventilator, E. Leverich Warming buildings, etc., B. Holly. 193,085, 193,088, Wash basin, J. Hamilton. Wash basin, J. H. Lapham Wash board, G. W. Hunter Wash boiler, W. A. Kellogg Washing machine, Jenne & Creighton Water closet valve, J. Muirhead Welding chain links, B. Hershey 193,083, Whip socket, J. H. Sunderman Window grating, C. T. Steckel. Wines, W. Thompson	193,124 193,262 193,272 193,272 193,276 193,276 193,276 193,277 193,27
	Saw mill gage, F. Wheeler Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Seed heaters, R. Macdonald. Sewer cleaner, C. Loscher Sewer, trap, J. B. Moore Sewing machine, G. H. Thiele Sewing machine, G. H. Thiele Sewing machine, G. H. Reck Shears, T. H. Brady Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott Stamp mill, H. H. Scoville, Jr Stamp, revenue, E. A. Locke Steam boiler, Allen & Farrington Steam boiler, Allen & Farrington Steam boiler, Millen & Feely Steam valve, W. Andrews Stove, B. Duerstock Stove, B. Duerstock Stove, Thompson & Knappenberger Strainer, Guillemin & Lehman Straw cutter, Silberzahn & Hayssen Street guide, M. J. Vieira Tan bark, process, J. J. Johnston Tank regulator, A. Fuller (r) Thread, etc., art of making, A. R. Arnold Turbine wheel, Risdon & Tyler Vaccinating instrument, T. S. Brinkerhoff Valve, W. J. Westwood Vehicle holdback, A. B. Roberts Velocipede, J. H. Nolan Ventilating apparatus, M. A. Morton Ventilator, E. Leverich Warming buildings, etc., B. Holly193,085, 193,088, Wash basin, J. H. Lapham Wash board, G. W. Hunter.	193,124 193,293 193,294 193,296 193,297
	Saw mill gage, F. Wheeler Saw sharpener and tooth gage, G. W. Atkins Scales, J. Parnall. Seed heaters, R. Macdonald. Seeder cleaner, C. Loscher Sewer, trap, J. B. Moore. Sewing machine, G. H. Thiele Sewing machine, G. H. A. Blanchard Shade holder, G. H. Reck Shears, T. H. Brady Sheet metal can, G. W. Bell. Shoe, bathing, C. C. Clayton Shuttle boxes, H. Wyman Slate, C. C. Shepherd Slate frame attachment, M. Hills Soap, machine for cutting, Chandler & Boesch Spark arrester, P. H. Grace. Stamp, hand, H. W. Bardwell Stamp, india rubber, S. B. Scott. Stamp mill, H. H. Scoville, Jr Stamp, revenue, E. A. Locke Steam boiler, Allen & Farrington Steam boiler, Allen & Farrington Steam valve, W. Andrews Etone quarrying machine, J. B. McRae Stove, B. Duerstock Stove, Thompson & Knappenberger Strainer, Guillemin & Lehman Stræw cutter, Silberzahn & Hayssen Street guide, M. J. Vieira Tan bark, process, J. J. Johnston Tank regulator, A. Fuller (r). Thread, etc., art of making, A. R. Arnold Toy buzz, J. B. Wells. Trunk hinge, J. Arnold Turbine wheel, Risdon & Tyler Vaccinating instrument, T. S. Brinkerhoff. Valve, W. J. Westwood Vehicle holdback, A. B. Roberts Velocipede, J. H. Nolan Wentilating apparatus, M. A. Morton Ventilating apparatus, M. A. Morton Ventilator, E. Leverich Warming buildings, etc., B. Holly. 193,085, 193,088, Wash basin, J. Hamilton. Wash basin, J. H. Lapham Wash board, G. W. Hunter Wash boiler, W. A. Kellogg Washing machine, Jenne & Creighton Water closet valve, J. Muirhead Welding chain links, B. Hershey 193,083, Whip socket, J. H. Sunderman Window grating, C. T. Steckel. Wines, W. Thompson	193,124 193,293 193,294 193,296 193,297

10.095 .- CARPETS .- A. Bave, Paris, France. 10,096.—GLASSWARE.—J. Jones, Pittsburg, Pa. 10,097.—RANGES.—F. M. Lawrence, Portland, Me. 10,098.—HEATING STOVES.—J. A. Lawson, Troy, N. Y. 10,099.—PLAYING CARDS.—A. J. Manning, N. Y. city. 10,100.-BUTTONS, STUDS, ETC.-J. W. Miller et al., New-10,101.—SHEARS.—M. Renz, Naugatuck, Conn.

[A copy of anyone of the above patents maybe had by

remitting one dollar to MUNN & Co., 37 Park Row, New York city.]