TO INVENTORS.

An experience of more than thurty years, and the preparation of not less than one hundred thousand applications for patents at home and abroad, enable us to understand the laws and practice on both continents, and to possess unequaled facilities for procuring patents everywhere. In addition to our facilities for preparing drawings and specifications quickly, the applicant can rest assured that his case will be filed in the Patent Office without delay. Every application, in which the fees have been paid, is sent complete—including the model— to the Patent office the same day the papers are signed at our office, or received by mail, so there is no delay in filing the case, a complaint we often hear from other sources. Another advantage to the inventor in securing his patent through the Scientific American Patent Agency, it insures a special notice of the invention in the SCIENTIFIC AMERICAN, which publication often opens negotiations for the sale of the patent or manufacture of the article. A synopsis of the patent laws in foreign countries may be found on another page, and persons contemplating the securing of patents abroad are invited to write to this office for prices, which have been reduced in accordance with the times, and our perfected facilities for conducting the business. Address MUNN & CO., office Scientific American.

Business and Personal.

The Charge for Insertion under this heed is One Dollar a line for each insertion; about eight words to a line. Advertisements must be received at publication office as early as Thursday morning to appear in next issue.

Vertical Engines, 10 to 15 H. P., thoroughly well made. John Hartrick & Co., 47 Gold street, New York.

Magic Lanterns and Stereopticons of all prices. Views illustrating every subject for public exhibitions. Profitable business for a man with a small capital. Also ianterns for college and home amusement logue free. McAl.ister, Mf. Optician, 49 Nassau St., N.Y.

Mellen, Williams & Co.,57 Kilby St., Bos'on, Mass. Wiegand Sectional Steam Boiler. Ætna Rocking Grate Bar.

For the best advertising at lowest prices in Scientific, Mechanical, and other Newspapers, write to E. N. Freshman & Bros. . Advertising Agents, 186 W. 4th St., Cin., O.

Holly System of Water Supply and Fire Protection for Cities and Villages, is fully described in SCIENTIFIC AMERICAN SUPPLEMENT, No. 140.

Valuable Patent for Shooting Target for sale. Recently patented. Address Win. Kuehn, 499 Spring St.,

For Models, parts of Models, and Experimental Ma chinery, address Michael J. Stark, Buffalo, N. Y.

Scroll Saw Designs. A. W. Morton, New York.

A valuable unimproved Water Power can be obtained at low figures. Address Geo. Stevens, Columbus, N. J. Manuel Dengo, San Jose, Costa Rica, Central America, desires catalogues and price lists of all kinds of ma-

\$200,-4 H. P. New York Safety Engine and Boiler. Lovegrove & Co., Philadelphia, Pa

Telegraph and Electrical Material of every description. Jerome Redding & Co., 30 Hanover St., Boston, Mass.

Books for Engineers and Machinists. Catalogues free. E. & F N. Spon, 446 Broome St., N. Y. Boston B ower Co., Boston, Mass. Blowers, Exhaust Fans, 11ot Blast Apparatus. All parts interchangeable;

material and workmanship warranted the best. for particulars. A Manufacturing Co. will furnish on favorable terms room, power, and some capital, to good party having successful business which can be profitably extended. No

experiments tried. Address Hardware, Box 3918, N. Y. Northrop's Sheet Iron Roofing makes most durable fireproof roof. Used on all kinds of buildings. Send for

circular and prices. Northrop & Co., Pittsburgh, Pa.

Engines, ½ to 5 H. P. Geo. F. Shedd, Waltham, Mass. H. Prentiss & Co., 14 Dey St., N. Y., Manufs, Taps Dies, Screw Plates, Reamers, etc. Send for list.

The Lawrence Engine is the best. See ad. page 317. For the most substantial Wood-Working Tools, address E. & F. Gleason, 52 Canal St., Philadelphia, Pa.

Sheet Mctal Presses, Ferracute Co., Bridgeton, N. J. Oak Tanned Leather Belting, Rubber Belting, Cotton Belting, Round Leather Belting. Greene, Tweed & Co., 18 Park Place, New York.

Nickel Plating.—A white deposit guaranteed by using our material. Condit, Hanson & Van Winkle, Newark, N.J. English Agency, 18 Caroline St., Birmingham.

Punching Presses, D. op Hammers and Dies for working Metals, etc. The Stiles & Parker Press Co., Middletown, Conn.
Hydraulic Presses and Jacks, new and second hand.

nes and Machinery for Polishing and Buffing Metals. E. Lyon & Co., 470 Grand St., N. Y.

Wanted .- Articles to manuf. D. J. Miller, Mohawk, N.Y.

Fine Gray Iron Castings a specialty, also Wire Workers' Pickets and Rosetts in stock. A. Winterburn's Foundry, 16 De Witt St., Albany, N. Y.

Solid Emery Vulcanite Wheels-The Solid Original Emery Wheel - other kinds imitations and inferior. Our name is stamped in full on all our best Standard Belting, Packing, and Hose. Buy that only. The best is the cheapest. New York Belting and Packing Company, 37 and 38 Park Row, N. Y.

lithograph, etc.

Presses, Dies, and Tools for working Sheet Metals, etc. Fruit and other Can Tools. Bliss & Williams, Brooklyn, N. Y., and Paris Exposition, 1878.

North's Lathe Dog. 347 N. 4th St., Philadelphia, Pa.

The Cameron Steam Pump mounted in Phosphor Bronze is an indestructible machine. See advertisement. And this operation continued weekly until the vessel is Wheel Press, Cotton Press, Pipe Line, and Test Merture two thirds filled. About fourteen days after the last adcury Gauges. T. Shaw, 915 Ridge Ave., Philadelphia, Pa. I dition of the wine the whole of the contents will have For Telephones, Amateur Photo, Apparatus, etc., address E. Sackmann & Co., 278 Pearl St. N. Y.

For Sale Chean -One 50 lb Hotchkiss Air Spring Hammer, nearly new. D. Frisbie & Co., New Haven, Ct. Special Planers for Jointing and Surfacing, Band and Scroll Saws, Universal Wood-workers, etc., manufac-

ured by Bentel, Margedant & Co., Hamilton, Ohio. We make steel castings from 1/4 to 10,000 lbs. weight, 3 times as strong as cast iron. 12,000 Crank Shafts of this Pice now running and proved superior to wrought iron. Circulars and price list free. Address Chester steel Castings Co., Evelina St., Philadelphia, Pa.

Diamond Saws. J. Dickinson, 64 Nassau St., N. Y.

Machine Cut Brass Gear Wheels for Models, etc. (new list). Models, experimental work, and machine work generally. D. Gilbert & Son, 212 Chester St., Phila., Pa. Elevators, Freight and Passenger, Shafting, Pulleys,

Emery in bbls. and cans, all numbers. Polishing Supplies. Greene, Tweed & Co., 18 Park Place, New York. Howard's Bench Vise and Schleuter's Bolt Cutters Howard Iron Works.

and Hangers. L. S. Graves & Son, Rochester, N. Y.

Fine Taps and Dies for Jewelers, Dentists, and Machinists, in cases. Pratt & Whitney Co., Hartford, Conn.

Hydraulic Cylinders, Wheels, and Pinions, Machinery Castings; ail kinds; strong and durable; and easily Tensile strength not less than 65,000 lbs. to square in. Pittsburgh Steel Casting Co., Pittsburgh, Pa.
The Turbine Wheel made by Risdon & Co., Mt. Holly, N.J., gave the best results at Centennial test.

For Shafts, Pulleys, or Hangers, call and see stock kept at 79 Liberty St. Wm. Sellers & Co.

Wm. Sellers & Co., Phila., have introduced a Injector, worked by a single motion of a lever.

Dead Pulleys, that stop the running of Loose Pulleys and Belts, taking the strain from Line Shaft when Machine isnot in use. Taper Sleeve Pulley Works, Erie, Pa.

For Sale Cheap.—One Horizontal Engine, 18 in. x 36 in.; one plant Hoisting Engines, four drums; and two 25 H. P. Vertical Engines. Apply to Wm. Taylor & Sons, 25 Adams St., Brooklyn, N. Y.



(1) W. M. J. asks; 1. Are the white fumes seen coming from a locomotive, steam? A. Steam par tially condensed. 2. Is there any kind of steam visible? winns. Is there any kind of steam invisible? A. Dry steam is invisible.

(2) F. N. Y. asks: 1. Can I get sufficient depth by the bichromate and gelatin process to make a mould for making pictures similar to lamp shades made resembling porcelain? A. No. 2. Are they made of porcelain? A. Yes.

(3) J. N. B. writes: I have some small castings (iron), and there are some blowholes in them. Can you inform me how I can fill them, and what with? A. It would be best to drill out the holes and plug them with iron; however, you may plug them with a namalgam of tin, zinc, and mercury, or with fusible metal.

(4) J. P. W. asks how to make harness soap. want to use soap and put in scmething to make it black, and something to make it oily and good for leather. I have experimented some with black, but the lye in the soap has a bad effect on it and turns it out more of a brown color. A. Resin soap, 2 lbs.; sperm oil, 34 lb. Digest the soap with a quantity of boiling water just sufficient to thoroughly soften it, when it may be triturated with the warm oil and a sufficient quantity of fine boneblack until a uniform paste is obtained.

(5) E. V. asks: 1. Is stenography a good business for these times? A. Stenography is never a good business except to a few who are by nature specially fitted for it. 2. What is the largest number of words that has been written in a minute? A. 200 words per minute may be reported, but not fully written out. 3. At what rate does a common speaker talk? A. From 50 to 250 words.

In answer to your last query we advise you to consult

(6) P. C. M. asks how a schoolroom can be warmed comfortably. A. Cause the fresh air supply to enter under the stoves: close all openings for the escape of hot air from the upper part of the room; ventilate by means of openings in the floor, the escape pipes leading to the chimneys or through them, to secure an up draught.

(7) C. F. L. asks why the heating of an iron sphere to nearly the melting point (as noted in your paper of September 28) should change its appearance to a disk. A. It is only by the gradation of light and shade that we can tell solids from plane surfaces. The highly heated sphere shows no such gradations.

(8) J. G. S. writes: I have some wine that is too sour for wine and not sour enough for vinegar. What shall I do to it to make it sour? A. The souring of wine is due to the conversion of the alcohol into acetic acid. This is very common, and may result from too small a proportion of alcohol, too high a temperature of the cellars, or exposure to the atmosphere. The wink, if too far soured, is fit only for making vinegar; but slight cases can be remedied by an addition of sugar. To convert your wine into vinegar the wine should not contain more than 10, nor less than 3 per cent of alcohol. The temperature should not be above 36° C, nor below 10° C. A plentiful supply of air to the wine and an intimate contact between the two. The addition of a small amount of vinegar, or still better, me of the so-called vinegar ma aceti. This method is very generally employed for tried arsenic, poke root, and borax to no effect. A. A. For Solid Wrought Iron Beams, etc., see advertise-making wine vinegar. Generally a "souring" vessel or little alum or borax solution in hot water, applied with Address Union Iron Mills, Pittsburgh, Pa., for "mother" vessel, made of oak wood, is employed; this a cloth to the woodwork, and injected into the cracks vat is first, when newly made, thoroughly scalded with, in the vicinity of their hiding places, is usually quite efboiling water, and when thereby the extractive matter of the wood is exhausted, the vessel is filled with boiling hot vinegar, when the wood is soaked with vinegar, there is poured into the vessel 20 gallons of wine, and after eight days again 2 gallons of wine are added, become converted into vinegar. Half this quantity is withdrawn from the souring vessel and carried to the store; to the remainder more wine is added, and the preparation of vinegar continued uninterruptedly.

(9) F. D. W. asks for a preparation that will bleach feathers and horsehair without injuring them. A. You may try exposing them to the vapor of burning sulphur in a barrel or other tight vessel.

(10) J. G. E. asks: What ingredients do much organic matter. The sample contains a little potthey use in pressing plugs of smoking and chewing to- ash and traces of phosphoric acid. The material may

flavor it? A. Molasses, licorice paste, glycerin, salt, and anise are frequently employed.

What sized cylinder and what sized boiler would be required to drive a screw 16 inches diameter, with a pressure of steam at 100 lbs. to the square inch, and the speed she would be likely to run at? A. Cylinder 21/4 x 4, boiler 20 inches diameter, 3 feet high, revolutions 300 to 400.

(11) Constant Reader: What is the most suitable metal for working upon a foot lathe by hand? Iwish something which can be turned and bored with ease. Can you tell me of an alloy which will meltata moderately low temperature, but would be tough enough to be turned down without clogging on a small foot lathe? Would this alloy be hard enough to be used for making the cylinder and side valves of a small engine, the cylinder being about 2x 4 inches. If not, for what parts could it be used? Could you give me the composition of several alloys of different degrees of hardness? What should be the size of boiler, and what pressure should be used to obtain 1/4 horse power, with an engine the cylinder of which is of the size above named? What is the pitch of a propeller? In what proportion is it to the diameter? Is there any rule by which to calculate the diameter and width of blades, etc., of a propeller, the length, width, and draught of the boat being known? Is there any by which the proper depth of a small steam launch can be calculated, the length and width being given? A.Brass would be the best alloy for the purpose. You can make a boiler 10 in. in diameter and 15 in. high, and carry a steam pressure of 30 lbs. per square inch. The pitch of propeller can be from 11/4 to 11/2 times the diameter. The other rules you desire could not be given in this limited space, but you can proportion small screws and hulls from samples of larger ones, many of which have been described in our col-

(12) N. E. S.—The washing compound consists chiefly of sal soda, lime, and resin soap.

(13) J. B. F. writes: At our factory we are using soft iron for all the castings we make, but find we will have to use some very much harder than we have been able to produce by adding a small quantity to what is in the furnace after ordinary work is poured. I have thought we might accomplish what we wish by hardening the iron in the ladle. Is there any way in which this can be done? A. We know of nothing that will produce the desired result in the manner suggested.

(14) W. P. K. asks: 1. Is spun glass flexble? A. Yes. 2. How fine can it be made? A. The threads are often drawn as fineas a single hair. 3. What are its constituents? A. Of a soft glass variously colored by metallic oxides. The glass without the coloring matter usually has the composition: Silica 75, potash 5, soda 10, lime 10.

(15) D. M. P. asks if there are not fire engines in New York propelled hy steam which visit fires without the aid of horses? If so, who was the inventor thereof, and when did they first come in vogue; moreover, are they in use at the present time? A. There are, we believe, at present four self-propelling steam fire engines in use in this city. They were built by the Amoskeag Manufacturing Company, but the principal details of the self-propelling apparatus have long been used in connection with traction engines.

(16) R. W. S. asks: 1. Has frost any effect upon spiral springs that are in constant use out of doors? A. They sometimes become more brittle. 2. What is the best material for springs for hard usage? A. Steel. 3. Which is the best spring to use where the diameter is small, and the power required is great, a single spring of large wire wound small or a double spring of smaller wire, and which is apt to set the most? A. There is not a great deal of difference if proper proportions are observed in the two cases.

(17) V. E. C. writes: Can you tell me what metal and at what heat it will melt that will allow me to handle it in the melted state? A. The experiment is often performed with mercury, and with Rose's fusible metal—lead 3 parts, tin 2 parts, bismuth 5 parts -melts at 196° Fah.

(18) J. C. C. asks: Is there a process to restore the steel fire sheets of oil stills after crystallization by overheating in the presence of carbon? A. We think not.

(19) E. M. asks where he can learn the process of casting rubber type and stereotype, and if it requires much apparatus. A. See p. 1326, Scientific AMERICAN SUPPLEMENT.

(20) C. A. P. asks: I have a meerschaum pipe, and by accident the stem broke off close to the What is the best cement to fasten it together? A. Slake pure caustic lime with a little boiling water, and mix the dry powder with the white of an egg to This should be used in small quan itty, immediately, as it soon sets.

(21) A. M.: What is the easiest and most way to destroy roaches (Blatta)? I have

(22) H. S. asks: Can a body be petrified by laying the same in a solution of silicate of soda? Or can it be successfully injected into a dead body so as to entirely petrify the whole body? A. We believe experiments in this direction have not proved very successful.

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

J. B. W .- Green trap containing marcasite-iron sulphide -W. M.-An indurated clay containing much sand, iron oxide, and lime.-T. F.-It is magnetitemagnetic oxide of iron, loadstone.-W. S -Not infusorial earth. Consists of lime, carbonate silica, and bacco to make the leaves adhere together, and also to prove of some value as a fertilizer.-H. S.-Silicious

clay containing much iron sulphide. Is not necessarily Indicative of the proximity of metallic ores or coal.

COMMUNICATIONS RECEIVED.

The Editor of the Scientific American acknowledges with much pleasure the receipt of original papers and contributions on the following subjects:

The Consumption of Natural Gas. By T. B. McC. Jupiter. By R D. S.

OFFICIAL.

INDEX OF INVENTIONS

FOR WHICH

Letters Patent of the United States were Granted in the Week Ending

September 17, 1878. 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.

	203 037
Arithmetical results, obtaining, J. Sawyer Auger, W. Haney	
Auger, W. Haney	208,181
Bag, J. Arkell	. 208,138
Band cutter, wire, W. E. Saediker	. 208,046
Bed bottom, spring, M. R. Davis	
Belting, wire, G. A. l'ickhardt	
Binder, temporary, N. S. Otis (r)	. 8,419
Bit stock, C. L. Griswold Blacking box, Morse & Sholes	. 208,168
Boilers, heater and feeder for, G. W. Moore	208.031
Book support, M. L. Schech	
Boot and shoe insole, M. Mayer	. 205,190
Boot and shoe laster, G. W. Copeland et al	
Boot and shoe lasting mechanism, H. G. Thompson	
Boot and shoe soles, beater, etc., for, S. Ross (r)	
Boots and mittens, drying moist, B. F. Buxton	
Boring machine, T. G. Morse	
Bosom boards, M. Price	
Bottle stopper, H. Bell	200,146
Bottle stopper fastener, T. H. Shahan208,205	
Bottles, securing corks in, C. Michel	
Bowis, etc., connection for, W. E. Sherriffs	
Brake, car, W. W. Patterson	
Brake, railway, J. & J. G. Hardy	
Brake, railway car, W. R. Green	
Brake shoe clamp, C. Helnen	
Brick, dovetailed grooved, W. J. Mackrell	
Budge truss, G. W. Cooley Burglar alarm, J. K. Johnston	. 208,155
Burial casket, J. Maxwell	
Calendar dial and watch crystal, D. T. Kendrick	208.182
Can for liquids, G. W. Peck	
Can for oil and other liquids, G. W. Peck	
Can, tin, S. H. Bradford	. 208,065
Cap and stopper fastener, screw, J. K. Chase	
Car coupling, J. Forman.	. 208,081
Car coupling, J G Maris.	
Car heater, F. E. Ensign	
Car roof, H. Aldridge	
Car starter. H. Schreiner	208,110
Carriage, child's, F. L. Hughes (r)	
Carriage curtain window, F. A. Neider	
Cattle, gangway transferrer, E. L & E. Forman	208,164
Chair, H. Clark	
Churn, B. Gue.	
Churn dasher, J. W. Tatum	
Clevis, C. F. Search	
Coal, treating, M. B. Eaton	
Coffee pot. O. W. Noble	
Coffee roasting apparatus, A. McDonald	208,025
Cooler, beer, A. Roos (r)	8,420
Corset, M. P. Bray	208,066
Corset, H. S. Strauss	208,049
Corsets, manufacture of, A. Fellheimer	208.162
Corsets, manufacture of, A. Fellheimer Cotton condenser, T. Camp	208,1 62 208,071
Corsets, manufacture of, A. Fellheimer Cotton condenser, T. Camp Cradle, E. Whitehead	208,162 208,071 208,052
Corsets, manufacture of, A. Fellheimer	208,162 208,071 208,052 208,051
Corsets, manufacture of, A. Fellheimer Cotton condenser, T. Camp Cradle, E. Whitehead Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp Cultivator, cotton, W. W. Harvey	208,162 208,071 208,052 208,051 208,051
Corsets, manufacture of, A. Fellheimer	208,162 208,071 208,052 208,051 208,073 208,088
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman. Cultivator, F. M. Cropp Cultivator, cotton, W. W. Harvey Curtain roller and bracket, H. L. Werne. Door **securer*, W. A. Ingalls	208,162 208,071 208,052 208,051 208,053 208,088 208,130 208,176
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp. Cultivator, cotton, W. W. Harvey. Curtain roller and bracket, H. L. Werne. Door **securer, W. A. Ingalls. Dredge bottle, W. Sellers	208,162 208,071 208,052 208,051 208,073 208,088 208,130 208,176 208,125
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp Cultivator, cotton, W. W. Harvey Curtain roller and bracket, H. L. Werne Door securer, W. A. Ingalls. Dredge bottle, W. Sellers Electric alarms, etc. switch for, P. Ernwein	208,162 208,071 208,052 208,051 208,073 208,088 208,130 208,176 208,125 208,161
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp. Cultivator, cotton, V. W. Harvey. Curtain roller and bracket, H. L. Werne. Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc. switch for, P. Ernwein. Electric abunchet, W. J. Bennett.	208.162 208,071 208,052 208,051 208 073 208,088 208,130 208,176 208,125 208,161 208,147
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman. Cultivator, F. M. Cropp Cultivator, cotton, W. W. Harvey Curtain roller and bracket, H. L. Werne Door *securer, W. A. Ingalls Dredge bottle, W. Sellers Electric alarms, etc. switch for, P. Ernwein Elevator bucket, W. J. Bennett Elevator, M. V. B. Wright	208.162 208,071 208,052 208,051 208,053 208,088 208,130 208,176 208,125 208,161 208,147 208,217
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp Cultivator, cotton, W. W. Harvey. Curtain roller and bracket, H. L. Werne. Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc. switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Engine, dummy, J. F. Thomas	208.162 208.071 208.052 208.051 208.063 208.083 208.130 208.176 208.125 208.146 208.147 208.217 208.213
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp. Cultivator, cotton, V. W. Harvey. Curtain roller and bracket, H. L. Werne. Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc., switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Engine, dummy, J. F. Thomas Eyeleting machine, W. oodward & Goodson.	208.162 208.071 208.052 208.051 208.073 208.088 208.130 208.176 208.125 208.161 208.147 208.217 208.213 208.133
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp. Cultivator, cotton, W. W. Harvey. Curtain roller and bracket, H. L. Werne. Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc. switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Engine, dummy, J. F. Thomas Eyeleting machine, W. Woodward & Goodson. Felting machine, W. Keenan.	208,162 208,071 208,052 208,051 208,053 208,088 208,130 208,176 208,125 206,161 208,147 208,217 208,213 208,133 208,183
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp. Cultivator, cotton, V. W. Harvey Curtain roller and bracket, H. L. Werne Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Elevator, M. V. B. Wright. Engine, dummy, J. P. Thomas Eyeleting machine, W. oodward & Goodson Felting machine, W. Keenan. Fence barb, wire, Baker & Bestor. Fence, portable, W. McLaughlin	208,162 208,071 208,052 208,053 208,063 208,139 208,176 208,151 208,161 208,121 208,123 208,133 208,130 208,130 208,130 208,130 208,130 208,130
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp. Cultivator, cotton, V. W. Harvey. Curtain roller and bracket, H. L. Werne. Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc. switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Engine, dummy, J. F. Thomas Eyeleting machine, W. oodward & Goodson. Felting machine, W. Keenan. Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean.	208,162 208,071 208,051 208,051 208,053 208,173 208,176 208,176 208,176 208,176 208,181 208,181 208,181 208,181 208,181 208,181 208,181 208,181 208,181 208,181 208,181 208,181 208,181 208,181 208,181 208,181 208,181 208,181
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman. Cultivator. F. M. Cropp Cultivator, cotton, W. W. Harvey. Curtain roller and bracket, H. L. Werne. Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc. switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Engine, dummy, J. F. Thomas Eyeleting machine, W. Godward & Goodson. Felting machine, W. Keenan. Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean. Firearm, breech-loading, C. E. & R. Green.	208.162 208,071 208,052 208,051 208,061 208,083 208,189 208,189 208,176 208,125 208,147 208,217 208,217 208,213 208,180 208,140 208,085
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp Cultivator, cotton, W. W. Harvey Curtain roller and bracket, H. L. Werne Door securer, W. A. Ingalls. Dredge bottle, W. Sellers Electric alarms, etc switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Engine, dummy, J. F. Thomas Eyeleting machine, W. oodward & Goodson Felting machine, W. Keenan. Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean. Firearm, breech-loading, C. E. & R. Green. Firearm, magazine, F. W. Tlesing.	208.162 208,051 208,052 208,051 208,061 208,081 208,189 208,189 208,176 208,147 208,217 208,213 209,138 209,138 209,140 208,027 208,140 208,027 208,140 208,027 208,140
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp. Cultivator, cotton, V. W. Harvey. Curtain roller and bracket, H. L. Werne. Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc., switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Elengine, dummy, J. F. Thomas Eyeleting machine, W. Oodward & Goodson Felting machine, W. Keenan Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean. Firearm, breech-loading, C. E. & R. Green. Firearm, magazine, F. W. Tiesing. Fire extinguisher, car stove, P. P. Quackenboss.	208,162 208,071 208,051 208,051 208,051 208,081 208,181 208,176 208,151 208,151 208,217 208,213 208,183 208,189 208,027 208,247 208,248 208,252 208,265 208,265 208,265
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp. Cultivator, cotton, W. W. Harvey. Curtain roller and bracket, H. L. Werne. Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc. switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Engine, dummy, J. F. Thomas Eyeleting machine, W. oodward & Goodson Felting machine, W. Keenan. Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean. Firearm, breech-loading, C. E. & R. Green. Firearm, magazine, F. W. Tiesing. Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg.	208,162 208,071 208,063 208,063 208,083 208,189 208,176 208,125 208,161 208,147 208,217 208,213 208,189 208,189 208,140 208,085 208,085 208,095 208,095
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp Cultivator, cotton, W. W. Harvey Curtain roller and bracket, H. L. Werne Door securer, W. A. Ingalls. Dredge bottle, W. Sellers Electric alarms, etc. switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright Engine, dummy, J. P. Thomas Eyeleting machine, W. oodward & Goodson. Felting machine, W. Keenan Fence barb, wire, Baker & Bestor. Fence, portable, W. McLaughlin Filter, J. & R. Bean Firearm, breech-loading, C. E. & R. Green. Firearm, magazine, F. W. Tlesing. Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg. Floor cloth, manufacture of, J. Robley	208,162 208,071 208,051 208,051 208,068 208,189 208,175 208,161 208,175 208,217 208,217 208,213 208,180 208,027 208,180 208,027 208,180 208,027 208,180 208,027 208,180 208,027 208,035 208,03
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp. Cultivator, cotton, W. W. Harvey. Curtain roller and bracket, H. L. Werne. Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc. switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Engine, dummy, J. F. Thomas Eyeleting machine, W. oodward & Goodson Felting machine, W. Keenan. Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean. Firearm, breech-loading, C. E. & R. Green. Firearm, magazine, F. W. Tiesing. Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg.	208,162 208,071 208,051 208,051 208,051 208,083 208,189 208,176 208,121 208,121 208,121 208,213 208,180 208,180 208,027 208,027 208,213 208,190 208,027 208,128 208,200 208,075 208,200
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp Cultivator, cotton, W. W. Harvey. Curtain roller and bracket, H. L. Werne. Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc. switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Engine, dummy, J. F. Thomas Eyeleting machine, W. oodward & Goodson. Felting machine, W. Keenan. Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean. Firearm, magazine, F. W. Tlesing. Fire axtinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg. Floor cloth, manufacture of, J. Robley. Food preserving compound, R. S. Dashiell Fruit picker, I. Gothard. Fruit picker, G. C. Hawkins.	208,162 208,075 208,051 208,051 208,068 208,189 208,175 208,161 208,177 208,177 208,181 208,180 208,190 208,027 208,180 208,027 208,180 208,027 208,180 208,027 208,180 208,037 208,180 208,037 208,180 208,037 208,180 208,037 208,180 208,038 208,180 208,038 208,180 208,038 208,038 208,180 208,038 208,038 208,038 208,038
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp. Cultivator, cotton, V. W. Harvey. Curtain roller and bracket, H. L. Werne. Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Elevator, M. V. B. Wright. Eleiting machine, W. Godward & Goodson Felting machine, W. Keenan. Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean. Firearm, breech-loading, C. E. & R. Green. Firearm, magazine, F. W. Tlesing. Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg. Floor cloth, manufacture of, J. Robley. Food preserving compound, R. S. Dashiell Fruit picker, G. C. Hawkins. Furnace, gas retort, G. Siegel.	208,162 208,071 208,051 208,051 208,051 208,083 208,189 208,181 208,176 208,161 208,147 208,213 208,133 208,130 208,133 208,130 208,134 208,213 208,136 208,144 208,213 208,150 208,027 208,128 208,200 208,075 208,159 208,159 208,159 208,159 208,106
Corsets, manufacture of, A. Fellheimer Cotton condenser, T. Camp Cradle, E. Whitehead Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp Cultivator, cotton, V. W. Harvey Curtain roller and bracket, H. L. Werne Door Securer, W. A. Ingalls Dredge bottle, W. Sellers Electric alarms, etc. switch for, P. Ernwein Elevator bucket, W. J. Bennett Elevator bucket, W. J. Bennett Elevator, M. V. B. Wright Engine, dummy, J. P. Thomas Eyeleting machine, W. oodward & Goodson Felting machine, W. Keenan Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean Firearm, breech-loading, C. E. & R. Green Firearm, magazine, F. W. Tiesing Fire extinguisher, car stove, P. P. Quackenboss Flat iron heater, N. Crotsenberg Floor cloth, manufacture of, J. Robley Food preserving compound, R. S. Dashiell Fruit picker, I. Gothard Fruit picker, I. Gothard Frunace, gas retort, G. Siegel Furnace, dot air, J. W. Crary (r).	208,162 208,075 208,051 208,051 208,051 208,081 208,189 208,189 208,176 208,217 208,217 208,213 208,189 208,189 208,189 208,189 208,189 208,07 208,085 208,085 208,085 208,085 208,085 208,189 208,085 208,189
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp Cultivator, E. M. Cropp Cultivator, cotton, W. W. Harvey. Curtain roller and bracket, H. L. Werne Door securer, W. A. Ingalls. Dredge bottle, W. Sellers Electric alarms, etc. switch for, P. Ernwein Elevator bucket, W. J. Bennett. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Engine, dummy, J. P. Thomas Eyeleting machine, W. oodward & Goodson. Felting machine, W. Keenan. Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean. Firearm, breech-loading, C. E. & R. Green. Firearm, magazine, F. W. Tiesing. Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg. Floor cloth, manufacture of, J. Robley. Food preserving compound, R. S. Dashiell Fruit picker, I. Gothard. Fruit picker, G. C. Hawkins. Furnace, gas retort, G. Siegel. Furnace, steam boiler, C. D. Smith	208,162 208,073 208,051 208,051 208,065 208,088 208,130 208,175 208,161 208,147 208,213 208,130 208,130 208,140 208,027 208,140 208,027 208,140 208,027 208,140 208,027 208,140 208,027 208,140 208,027 208,140 208,027 208,140 208,027 208,140 208,027 208,036 208,166 208,090 208,166 208,090
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp Cultivator, cotton, V. W. Harvey Curtain roller and bracket, H. L. Werne Door securer, W. A. Ingalls. Dredge bottle, W. Sellers Electric alarms, etc switch for, P. Ernwein. Elevator bucket, W. J. Bennett Elevator bucket, W. J. Bennett Elevator, M. V. B. Wright Engine, dummy, J. F. Thomas Eyeleting machine, W. oodward & Goodson Felting machine, W. Keenan Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean Firearm, breech-loading, C. E. & R. Green. Firearm, magazine, F. W. Tiesing Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg Floor cloth, manufacture of, J. Robley. Food preserving compound, R. S. Dashiell Fruit picker, G. C. Hawkins Furnace, dot air, J. W. Crary (r). Furnace, hot air, J. W. Crary (r). Furnace, steam boiler, C. D. Smith. Gas regulator, J. Adams	208,162 208,071 208,075 208,051 208,051 208,058 208,130 208,176 208,118 208,147 208,213 208,133 208,180 208,180 208,052 208,161 208,216 208,161 208,176 208,17
Corsets, manufacture of, A. Fellheimer Cotton condenser, T. Camp Cradle, E. Whitehead Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp. Cultivator, cotton, V. W. Harvey. Curtain roller and bracket, H. L. Werne. Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc., switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Elengine, dummy, J. P. Thomas Eyeleting machine, W. oodward & Goodson Felting machine, W. Keenan Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean. Firearm, breech-loading, C. E. & R. Green Firearm, magazine, F. W. Tiesing. Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg. Floor cloth, manufacture of, J. Robley Food preserving compound, R. S. Dashiell Fruit picker, I. Gothard. Fruit picker, G. C. Hawkins. Furnace, gas retort, G. Siegel. Furnace, hot air, J. W. Crary (r). Furnace, steam boiler, C. D. Smith Gas regulator, J. Adams Gas retorts, J. Slade (r)	208,162 208,071 208,051 208,051 208,051 208,081 208,181 208,181 208,181 208,181 208,181 208,181 208,213 208,183 208,181 208,213 208,183 208,180 208,027 208,144 208,082 208,000 208,075 208,186 208,189 208,18
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp Cultivator, cotton, V. W. Harvey Curtain roller and bracket, H. L. Werne Door securer, W. A. Ingalls. Dredge bottle, W. Sellers Electric alarms, etc switch for, P. Ernwein. Elevator bucket, W. J. Bennett Elevator bucket, W. J. Bennett Elevator, M. V. B. Wright Engine, dummy, J. F. Thomas Eyeleting machine, W. oodward & Goodson Felting machine, W. Keenan Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean Firearm, breech-loading, C. E. & R. Green. Firearm, magazine, F. W. Tiesing Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg Floor cloth, manufacture of, J. Robley. Food preserving compound, R. S. Dashiell Fruit picker, G. C. Hawkins Furnace, dot air, J. W. Crary (r). Furnace, hot air, J. W. Crary (r). Furnace, steam boiler, C. D. Smith. Gas regulator, J. Adams	208.162 208.073 208.051 208.051 208.061 208.073 208.175 208.181 208.175 208.181 208.181 208.182 208.183 208.183 208.183 208.183 208.180 208.190 208.077 208.213 208.180 208.190 208.196
Corsets, manufacture of, A. Fellheimer Cotton condenser, T. Camp Cradle, E. Whitehead Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp Cultivator, cotton, V. W. Harvey Curtain roller and bracket, H. L. Werne Door Securer, W. A. Ingalls Dredge bottle, W. Sellers Electric alarms, etc. switch for, P. Ernwein Elevator bucket, W. J. Bennett Elevator, M. V. B. Wright Elevator, M. V. B. Wright Elering machine, W. oodward & Goodson Felting machine, W. Keenan Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean Firearm, breech-loading, C. E. & R. Green Firearm, magazine, F. W. Tiesing Fire extinguisher, car stove, P. P. Quackenboss Flat iron heater, N. Crotsenberg Floor cloth, manufacture of, J. Robley Food preserving compound, R. S. Dashiell Fruit picker, I. Gothard Fruit picker, G. C. Hawkins Furnace, gas retort, G. Siegel Furnace, hot air, J. W. Crary (r) Furnace, stam boiler, C. D. Smith Gas regulator, J. Adams Gas retorts, J. Slade (r) Glass tempering, F. S. Shirley Governor for engines, B. Brazelle Governor, steam engine, B. Brazelle	208,162 208,071 208,051 208,051 208,051 208,051 208,051 208,161 208,176 208,161 208,18
Corsets, manufacture of, A. Fellheimer Cotton condenser, T. Camp Cradle, E. Whitehead Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp Cultivator, cotton, V. W. Harvey Curtain roller and bracket, H. L. Werne Door Securer, W. A. Ingalls Dredge bottle, W. Sellers Electric alarms, etc. switch for, P. Ernwein Elevator bucket, W. J. Bennett Elevator bucket, W. J. Bennett Elevator, M. V. B. Wright Engine, dummy, J. F. Thomas Eyeleting machine, W. oodward & Goodson Felting machine, W. Keenan Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean Firearm, breech-loading, C. E. & R. Green Firearm, magazine, F. W. Tiesing. Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg. Floor cloth, manufacture of, J. Robley Food preserving compound, R. S. Dashiell Fruit picker, I. Gothard. Fruit picker, G. C. Hawkins Furnace, gas retort, G. Siegel. Furnace, steam boiler, C. D. Smith Gas regulator, J. Adams Gas retorts, J. Slade (r) Glass tempering, F. S. Shirley. Governor for engine, B. Brazelle. Grain binder, J. F. Appleby.	208,162 208,071 208,051 208,051 208,051 208,051 208,051 208,151 208,176 208,125 208,165 208,165 208,165 208,167 208,167 208,055 208,167 208,167 208,167 208,167 208,209 208,167 208,209 208,167 208,090 208,167 208,090 208,167 208,090 208,167 208,090 208,167 208,090 208,167 208,090 208,167 208,090 208,167 208,090 208,167 208,090 208,167 208,090 208,167 208,090 208,167 208,090 208,167 208,090 208,167 208,090 208,167 208,090 208,167 208,090 208,167 208,090 208,167 208,090 208,167 208,090
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp Cultivator, cotton, W. W. Harvey Curtain roller and bracket, H. L. Werne Door securer, W. A. Ingalls. Dredge bottle, W. Sellers Electric alarms, etc. switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright Engine, dummy, J. F. Thomas Eyeleting machine, W. oodward & Goodson. Felting machine, W. Keenan. Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean. Firearm, breech-loading, C. E. & R. Green. Firearm, magazine, F. W. Tiesing. Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg. Floor cloth, manufacture of, J. Robley. Food preserving compound, R. S. Dashiell Fruit picker, G. C. Hawkins. Furnace, hot air, J. W. Crary (r). Furnace, steam boiler, C. D. Smith Gas regulator, J. Adams Gas retorts, J. Slade (r) Glass tempering, F. S. Shirley Governor, steam engine, B. Brazelle. Grain binder, J. F. Appleby. Grain separator, A. J. Humphreys	208,162 208,071 208,051 208,051 208,051 208,058 208,130 208,176 208,181 208,181 208,181 208,181 208,181 208,181 208,181 208,181 208,180 208,027 208,181 208,180 208,067 208,180 208,190 208,167 208,180 208,190 208,167 208,196 8,416 208,209 208,167 208,106 8,416 208,209 208,167 208,106 8,416 208,209 208,167 208,106 208,167 208,106 208,107 208,106 208,107 208,107 208,107 208,107 208,107 208,107 208,107 208,107 208,107 208,107 208,107 208,107 208,107 208,107 208,107 208,107 208,107 208,107 208,107
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp. Cultivator, cotton, V. W. Harvey. Curtain roller and bracket, H. L. Werne. Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc., switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Elevator, M. V. B. Wright. Engine, dummy, J. F. Thomas Eyeleting machine, W. Godward & Goodson Felting machine, W. Keenan. Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean. Firearm, breech-loading, C. E. & R. Green. Firearm, magazine, F. W. Tlesing. Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg. Floor cloth, manufacture of, J. Robley. Food preserving compound, R. S. Dashiell Fruit picker, I. Gothard. Frut picker, G. C. Hawkins. Furnace, gas retort, G. Siegel. Furnace, hot air, J. W. Crary (r). Furnace, steam boiler, C. D. Smith Gas regulator, J. Adams Gas retorts, J. Slade (r) Glass tempering, F. S. Shirley. Governor, steam engine, B. Brazelle. Governor, steam engine, B. Brazelle. Grain binder, J. F. Appleby. Grain separator, A. J. Humphreys. Graits, hot air, A. H. Buckhout.	208,162 208,071 208,051 208,051 208,051 208,051 208,161 208,176 208,161 208,176 208,181
Corsets, manufacture of, A. Fellheimer Cotton condenser, T. Camp Cradle, E. Whitehead Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp. Cultivator, cotton, V. W. Harvey. Curtain roller and bracket, H. L. Werne. Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc., switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Engine, dummy, J. P. Thomas Eyeleting machine, W. oodward & Goodson Felting machine, W. Keenan. Fence barb, wire, Baker & Bestor. Fence, portable, W. McLaughlin Filter, J. & R. Bean. Firearm, breech-loading, C. E. & R. Green. Firearm, magazine, F. W. Tiesing. Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg. Floor cloth, manufacture of, J. Robley. Food preserving compound, R. S. Dashiell Fruit picker, I. Gothard. Fruit picker, G. C. Hawkins. Furnace, gas retort, G. Siegel. Furnace, steam boller, C. D. Smith Gas regulator, J. Adams Gas retorts, J. Slade (r) Glass tempering, F. S. Shirley. Governor, steam engine, B. Brazelle. Grain binder, J. F. Appleby. Grain separator, A. J. Humphreys. Grate, hot air, A. H. Buckhout. Grate, shaking, A. McDonald.	208,162 208,071 208,051 208,051 208,051 208,051 208,081 208,181 208,176 208,151 208,1651 208,1651 208,1651 208,1651 208,1651 208,176 208,217 208,183 208,180 208,107 208,108 208,077 208,108 208,075 208,075 208,075 208,167 208,167 208,167 208,167 208,167 208,167 208,167 208,167 208,167 208,167 208,167 208,167 208,167 208,167 208,167 208,167 208,167 208,167 208,175 208,175 208,175 208,167 208,109
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp Cultivator, cotton, W. W. Harvey Curtain roller and bracket, H. L. Werne Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers Electric alarms, etc. switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright Engine, dummy, J. P. Thomas Eyeleting machine, W. oodward & Goodson Felting machine, W. Keenan Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean Firearm, magazine, F. W. Tlesing. Fire axtinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg Floor cloth, manufacture of, J. Robley. Food preserving compound, R. S. Dashiell Fruit picker, I. Gothard Frunace, gas retort, G. Siegel. Furnace, hot air, J. W. Crary (r). Furnace, steam boiler, C. D. Smith Gas regulator, J. Adams Gas retorts, J. Slade (r) Gless tempering, F. S. Shirley Governor, steam engine, B. Brazelle. Governor, steam engine, B. Brazelle. Grain binder, J. F. Appleby. Grain separator, A. J. Humphreys Grate, shaking, A. McDonald Gun. machine, F. E. Schultze	208,162 208,071 208,051 208,051 208,051 208,051 208,058 208,130 208,176 208,161 208,147 208,217 208,213 208,180 208,180 208,180 208,027 208,144 208,027 208,144 208,027 208,145 208,160 8,416 8,
Corsets, manufacture of, A. Fellheimer Cotton condenser, T. Camp Cradle, E. Whitehead Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp. Cultivator, cotton, V. W. Harvey. Curtain roller and bracket, H. L. Werne. Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc. switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Elengine, dummy, J. P. Thomas Eyeleting machine, W. oodward & Goodson Felting machine, W. Keenan Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean. Firearm, breech-loading, C. E. & R. Green Firearm, nagazine, F. W. Tiesing. Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg. Floor cloth, manufacture of, J. Robley. Food preserving compound, R. S. Dashiell Fruit picker, I. Gothard. Fruit picker, G. C. Hawkins. Furnace, gas retort, G. Siegel. Furnace, hot air, J. W. Crary (r). Furnace, steam boiler, C. D. Smith Gas regulator, J. Adams Gas retorts, J. Slade (r) Glass tempering, F. S. Shirley. Governor for engines, B. Brazelle. Governor, steam engine, B. Brazelle. Governor, steam engine, B. Brazelle. Governor, steam engine, B. Brazelle. Grain binder, J. F. Appleby. Grain separator, A. J. Humphreys. Grate, shaking, A. McDonald. Gun, machine, F. E. Schultze. 208,203, Gun, spring air, C. Herzfeldt, Jr. Harness breast collar, R. Pattin.	208,162 208,071 208,051 208,051 208,051 208,051 208,051 208,161 208,176 208,128 208,161 208,128 208,161 208,128 208,181 208,128 208,128 208,128 208,128 208,128 208,128 208,128 208,128 208,128 208,128 208,128 208,128 208,128 208,128 208,138
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp Cultivator, cotton, W. W. Harvey Curtain roller and bracket, H. L. Werne Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers Electric alarms, etc. switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright Engine, dummy, J. P. Thomas Eyeleting machine, W. oodward & Goodson Felting machine, W. Keenan Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean Firearm, magazine, F. W. Tlesing. Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg Floor cloth, manufacture of, J. Robley. Food preserving compound, R. S. Dashiell Fruit picker, I. Gothard Frunace, gas retort, G. Siegel Furnace, hot air, J. W. Crary (r). Furnace, steam boiler, C. D. Smith Gas regulator, J. Adams Gas retorts, J. Slade (r) Gless tempering, F. S. Shirley Governor, steam engine, B. Brazelle. Governor, steam engine, B. Brazelle. Grain binder, J. F. Appleby. Grain separator, A. J. Humphreys Grate, shaking, A. McDonald Gun. machine, F. E. Schultze	208,162 208,075 208,051 208,051 208,051 208,058 208,130 208,176 208,161 208,176 208,161 208,147 208,217 208,213 208,180 208,180 208,027 208,144 208,027 208,144 208,036 208,159 208,036 208,159 208,036 208,159 208,036 208,159 208,036 208,159 208,036 208,159 208,036 208,159 208,036 208,159 208,036 208,159 208,036 208,159 208,036 208,159 208,036 208,159 208,036 208,159 208,036 208,159 208,006 208,159 208,006 208,106 8,416 208,006 208,006 208,006 208,006 208,006 208,009 208,204 208,016 208,106 208,106 208,009 208,207 208,009 208,204 208,016 208,115 208,016
Corsets, manufacture of, A. Fellheimer Cotton condenser, T. Camp Cradle, E. Whitehead Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp. Cultivator, cotton, W. W. Harvey. Curtain roller and bracket, H. L. Werne. Door securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc., switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Engine, dummy, J. F. Thomas Eyeleting machine, W. oodward & Goodson Felting machine, W. Keenan Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean Firearm, breech-loading, C. E. & R. Green. Firearm, magazine, F. W. Tiesing. Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg. Floor cloth, manufacture of, J. Robley Food preserving compound, R. S. Dashiell Fruit picker, I. Gothard. Fruit picker, G. C. Hawkins. Furnace, gas retort, G. Siegel. Furnace, hot air, J. W. Crary (r). Furnace, hot air, J. W. Crary (r). Glass tempering, F. S. Shirley, Governor, steam boiler, C. D. Smith Gas regulator, J. Adams Gas retorts, J. Slade (r) Glass tempering, F. S. Shirley, Governor, steam engine, B. Brazelle Governor, steam engine, B. Brazelle Grain binder, J. F. Appleby, Grain separator, A. J. Humphreys. Grate, hot air, A. H. Buckhout. Grate, shaking, A. McDonald Gun, machine, F. E. Schultze. 208,203, Gun, spring air, C. Herzfeldt, Jr. Harness pad, M. V. Longsworth (r). Harrow, E. Vandawater.	208,162 208,071 208,051 208,051 208,051 208,058 208,139 208,175 208,161 208,175 208,181 208,181 208,181 208,181 208,180 208,052 208,190 208,106 8,416 208,200 208,106 8,416 208,107 208,114 8,422 208,106 8,416 208,107 208,106 8,416 208,107 208,107 208,107 208,108 8,416 208,109
Corsets, manufacture of, A. Fellheimer Cotton condenser, T. Camp Cradle, E. Whitehead Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp. Cultivator, cotton, V. W. Harvey Curtain roller and bracket, H. L. Werne. Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Elering machine, W. Godward & Goodson Felting machine, W. Keenan Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean Firearm, breech-loading, C. E. & R. Green Firearm, magazine, F. W. Tiesing. Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg. Floor cloth, manufacture of, J. Robley Food preserving compound, R. S. Dashiell Fruit picker, I. Gothard. Fruit picker, G. C. Hawkins. Furnace, gas retort, G. Siegel. Furnace, hot air, J. W. Crary (r). Furnace, steam boiler, C. D. Smith Gas regulator, J. Adams Gas retorts, J. Slade (r) Glass tempering, F. S. Shirley. Governor for engines, B. Brazelle. Governor, steam engine, B. Brazelle. Governor, steam engine, B. Brazelle. Governor, steam engine, B. Brazelle. Grain binder, J. F. Appleby. Grain separator, A. J. Humphreys. Grate, shaking, A. McDonald Gun. machine, F. E. Schultze. 208,203, Gun, spring air, C. Herzfeldt, Jr. Harness breast collar, R. Pattin. Harness pad, M. V. Longsworth (r). Harrow, E. Vandawater. Harvester guard finger, Ballew & Fuller.	208,162 208,071 208,051 208,051 208,051 208,051 208,051 208,151
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp Cultivator, cotton, W. W. Harvey Curtain roller and bracket, H. L. Werne Door Securer, W. A. Ingalls Dredge bottle, W. Sellers Electric alarms, etc. switch for, P. Ernwein. Elevator bucket, W. J. Bennett Elevator bucket, W. J. Bennett Elevator bucket, W. J. Bennett Elevator, M. V. B. Wright Engine, dummy, J. P. Thomas Eyeleting machine, W. oodward & Goodson Felting machine, W. Keenan Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean Firearm, magazine, F. W. Tiesing. Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg. Floor cloth, manufacture of, J. Robley. Food preserving compound, R. S. Dashiell Fruit picker, I. Gothard Frunace, gas retort, G. Siegel. Furnace, steam boiler, C. D. Smith Gas regulator, J. Adams Gas retorts, J. Slade (r) Glass tempering, F. S. Shirley Governor, steam engine, B. Brazelle. Governor, steam engine, B. Brazelle. Grain binder, J. F. Appleby. Grain separator, A. J. Humphreys Grate, shaking, A. McDonald Gun, machine, F. E. Schultze	208,162 208,075 208,051 208,051 208,065 208,088 208,130 208,175 208,161 208,176 208,181 208,181 208,181 208,181 208,180 208,190 208,077 208,181 208,180 208,077 208,181 208,180 208,077 208,181 208,180 208,077 208,180 208,077 208,180 208,077 208,180 208,077 208,180 208,077 208,180 208,077 208,180 208,077 208,180 208,077 208,180 208,077 208,180 208,077 208,181 208,207 208,067 208,067 208,067 208,067 208,175 208,069 208,207 208,169 208,207 208,175 208,1069 208,207 208,1069 208,207 208,1069 208,207 208,1069 208,207 208,1069 208,207 208,107 2
Corsets, manufacture of, A. Fellheimer Cotton condenser, T. Camp Cradle, E. Whitehead Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp. Cultivator, cotton, W. W. Harvey. Curtain rolier and bracket, H. L. Werne. Door securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc. switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Engine, dummy, J. F. Thomas Eyeleting machine, W. oodward & Goodson Felting machine, W. Keenan. Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean. Firearm, breech-loading, C. E. & R. Green. Firearm, magazine, F. W. Tiesing. Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg. Floor cloth, manufacture of, J. Robley Food preserving compound, R. S. Dashiell Fruit picker, I. Gothard. Fruit picker, G. C. Hawkins. Furnace, gas retort, G. Siegel. Furnace, hot air, J. W. Crary (r). Furnace, hot air, J. W. Crary (r). Glass tempering, F. S. Shirley. Governor, steam boiler, C. D. Smith Gas regulator, J. Adams Gas retorts, J. Slade (r) Glass tempering, F. S. Shirley. Governor, steam engine, B. Brazelle Governor, steam engine, B. Brazelle Grain binder, J. F. Appleby. Grain separator, A. J. Humphreys. Grate, hot air, A. H. Buckhout. Grate, shaking, A. McDonald Gun, machine, F. E. Schultze. 208,203, Gun, spring air, C. Herzfeldt, Jr. Harness breast collar, R. Pattin. Harness preast collar, R. Pattin. Hartow, E. Vandawater. Harvester guard finger. Ballew & Fuller. Hat pouncing machine. W. Keenan.	208,162 208,071 208,051 208,051 208,051 208,058 208,130 208,175 208,161 208,175 208,161 208,147 208,213 208,133 208,180 208,180 208,027 208,144 208,213 208,180 208,190 208,166 208,191 208,133 208,180 208,180 208,191
Corsets, manufacture of, A. Fellheimer Cotton condenser, T. Camp Cradle, E. Whitehead Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp. Cultivator, cotton, V. W. Harvey. Curtain roller and bracket, H. L. Werne. Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc. switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Elevator, M. W. Reenan. Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean. Firearm, breech-loading, C. E. & R. Green. Firearm, breech-loading, C. E. & R. Green. Firearm, magazine, F. W. Tiesing. Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg. Floor cloth, manufacture of, J. Robley. Food preserving compound, R. S. Dashiell Fruit picker, I. Gothard. Fruit picker, G. C. Hawkins. Furnace, gas retort, G. Siegel. Furnace, hot air, J. W. Crary (r). Furnace, steam boiler, C. D. Smith Gas regulator, J. Adams Gas retorts, J. Slade (r) Glass tempering, F. S. Shirley. Governor for engines, B. Brazelle. Governor, steam engine, B. Brazelle. Governor, steam engine, B. Brazelle. Governor, steam engine, B. Brazelle. Grain binder, J. F. Appleby. Grain separator, A. J. Humphreys. Grate, shaking, A. McDonald. Gun, machine, F. E. Schultze. 208,203, Gun, spring air, C. Herzfeldt, Jr. Harness breast collar, R. Pattin. Harness pad, M. V. Longsworth (r). Hiarrow, E. Vandawater. Havester guard finger. Ballew & Fuller. Hat pouncing machine. W. Keenan. Heater, portable water, E. Hersey	208,162 208,071 208,051 208,051 208,051 208,051 208,051 208,151 208,176 208,128 208,161 208,121 208,123 208,181 208,123 208,181 208,128 208,27 208,128 208,200 208,075 208,128 208,128 208,128 208,128 208,128 208,128 208,128 208,137 208,144 208,052 208,107 208,141 208,155 208,156 208,156 208,157 208,157 208,157 208,158 208,167 208,175 208,175 208,175 208,179 208,179 208,179 208,179 208,179 208,179 208,179 208,179 208,179 208,179 208,179 208,179 208,179 208,179 208,179 208,179 208,179 208,179 208,179
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp Cultivator, cotton, W. W. Harvey. Curtain roller and bracket, H. L. Werne. Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc. switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Engine, dummy, J. P. Thomas Eyeleting machine, W. oodward & Goodson Felting machine, W. Keenan. Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean. Firearm, magazine, F. W. Tiesing. Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg. Floor cloth, manufacture of, J. Robley. Food preserving compound, R. S. Dashiell Fruit picker, G. C. Hawkins. Furnace, gas retort, G. Siegel. Furnace, steam boiler, C. D. Smith Gas regulator, J. Adams Gas retorts, J. Slade (r) Glass tempering, F. S. Shirley. Governor, steam engine, B. Brazelle. Governor, steam engine, B. Brazelle. Governor, steam engine, B. Brazelle. Grate, shaking, A. McDonald Gun, machine, F. E. Schultze. Grate, Saking, A. McDonald Gun, spring air, C. Herrfeldt, Jr. Harness pacas, M. V. Longsworth (r). Harrow, E. Vandawater. Hat pouncing machine, W. Keenan. Heater, portable water, E. Hersey Hinge, lock, C. B. Clark Hoe, J. N. Parker.	208,162 208,071 208,051 208,051 208,051 208,051 208,161 208,175 208,161 208,175 208,161 208,175 208,181 208,182 208,180
Corsets, manufacture of, A. Fellheimer Cotton condenser, T. Camp Cradle, E. Whitehead Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp. Cultivator, cotton, V. W. Harvey. Curtain roller and bracket, H. L. Werne. Door securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc., switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Elevator, W. Keenan Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean Firearm, breech-loading, C. E. & R. Green Firearm, magazine, F. W. Tiesing. Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg. Floor cloth, manufacture of, J. Robley Food preserving compound, R. S. Dashiell Fruit picker, I. Gothard. Fruit picker, G. C. Hawkins. Furnace, gas retort, G. Siegel. Furnace, hot air, J. W. Crary (r). Furnace, steam boiler, C. D. Smith Gas regulator, J. Adams Gas retorts, J. Slade (r) Glass tempering, F. S. Shirley. Governor, steam engine, B. Brazelle. Governor, steam engine, B. Brazelle. Governor, steam engine, B. Brazelle Grain binder, J. F. Appleby. Grait, spartor, A. J. Humphreys. Grate, shaking, A. McDonald Gun. machine, F. E. Schultze. Grain separator, A. J. Humphreys. Grate, shaking, A. McDonald Gun. machine, F. E. Schultze. Rayners of all R. Pattin. Harness pad, M. V. Longsworth (r). Harness breast collar, R. Pattin. Harness pad, M. V. Longsworth (r). Harness breast collar, R. Pattin. Harness pad, M. V. Longsworth (r). Hartess pad, M. V.	208,162 208,071 208,051 208,051 208,051 208,051 208,051 208,175 208,181 208,176 208,181
Corsets, manufacture of, A. Fellheimer Cotton condenser, T. Camp Cradle, E. Whitehead Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp. Cultivator, cotton, V. W. Harvey. Curtain roller and bracket, H. L. Werne. Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc. switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Elevator, M. W. Reenan. Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean. Firearm, breech-loading, C. E. & R. Green. Firearm, breech-loading, C. E. & R. Green. Firearm, magazine, F. W. Tiesing. Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg. Floor cloth, manufacture of, J. Robley. Food preserving compound, R. S. Dashiell Fruit picker, I. Gothard. Fruit picker, G. C. Hawkins. Furnace, gas retort, G. Siegel. Furnace, hot air, J. W. Crary (r). Furnace, steam boiler, C. D. Smith Gas regulator, J. Adams Gas retorts, J. Slade (r) Glass tempering, F. S. Shirley. Governor for engines, B. Brazelle. Governor, steam engine, B. Brazelle. Governor, steam engine, B. Brazelle. Governor, steam engine, B. Brazelle. Grain binder, J. F. Appleby. Grain separator, A. J. Humphreys. Grate, shaking, A. McDonald Gun, machine, F. E. Schultze. 208,203, Gun, spring air, C. Herzfeldt, Jr. Harness breast collar, R. Pattin. Harness pad, M. V. Longsworth (r). Iliarrow, E. Vandawater. Havester guard finger, Ballew & Fuller. Hat pouncing machine, W. Keenan. Heater, portable water, E. Hersey Hinge, lock, C. B. Clark Hoe, J. N. Parker. Hog trap, W. Huston. Horse collar, A. D. Martin. Hose nozzle, Raymond & Perkins	208,162 208,071 208,051 208,051 208,051 208,051 208,051 208,151 208,176 208,128 208,161 208,121 208,133 208,180 208,123 208,181 208,128 208,27 208,128 208,200 208,075 208,128 208,200 208,075 208,167 208,169 208,176 208,176 208,176 208,176 208,179 208,175 208,179 208,175
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp Cultivator, cotton, W. W. Harvey Curtain roller and bracket, H. L. Werne Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers Electric alarms, etc. switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright Engine, dummy, J. P. Thomas Eyeleting machine, W. oodward & Goodson Felting machine, W. Keenan Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean Firearm, magazine, F. W. Tlesing. Fire axtinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg Floor cloth, manufacture of, J. Robley. Food preserving compound, R. S. Dashiell Fruit picker, I. Gothard Frunace, gas retort, G. Siegel Furnace, hot air, J. W. Crary (r). Furnace, steam boiler, C. D. Smith Gas regulator, J. Adams Gas retorts, J. Slade (r) Gless tempering, F. S. Shirley Governor, steam engine, B. Brazelle. Governor, steam engine, B. Brazelle. Grain binder, J. F. Appleby. Grain separator, A. J. Humphreys Grate, shaking, A. McDonald Gun, machine, F. E. Schultze Grate, shaking, A. McDonald Gun, spring air, C. Herzfeldt, Jr. Harness breast collar, R. Pattin. Harvester guard finger, Ballew & Fuller. Harvester guard finger, Ballew & Fuller. Havester guard finger, Ballew & Fuller. Hoge nozzle. Raymond & Perkins Husking and shelling implement, L. F. Johnston	208,162 208,071 208,051 208,051 208,051 208,051 208,051 208,151 208,176 208,161 208,176 208,213 208,180 208,180 208,180 208,027 208,180 208,027 208,180 208,027 208,180 208,036 208,190 208,036 208,159 208,036 208,159 208,036 208,159 208,036 208,159 208,036 8,416 208,159 208,075 208,061 8,416 208,159 208,061 8,416 208,159 208,061 8,416 208,159 208,067 208,067 208,067 208,067 208,165 208,175 208,069 208,271 208,175 208,069 208,271 208,175 208,069 208,271 208,175 208,069 208,271 208,175 208,069 208,271 208,175 208,069 208,271 208,175 208,069 208,271 208,175 208,069 208,271 208,175 208,069 208,271 208,175 208,069 208,271 208,175 208,075 208,075 208,075 208,075 208,075 208,075 208,075 208,075 208,075 208,075 208,075 208,075 208,075 208,075 208,075 208,075 208,075 208,075
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp. Cultivator, cotton, V. W. Harvey. Curtain roller and bracket, H. L. Werne. Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc., switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Elevator, W. Keenan. Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean. Firearm, breech-loading, C. E. & R. Green. Firearm, magazine, F. W. Tiesing. Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg. Floor cloth, manufacture of, J. Robley. Food preserving compound, R. S. Dashiell Fruit picker, I. Gothard. Fruit picker, I. Gothard. Frunace, gas retort, G. Siegel. Furnace, steam boiler, C. D. Smith. Gas regulator, J. Adams. Gas retorts, J. Slade (r) Glass tempering, F. S. Shirley. Governor, steam engine, B. Brazelle. Grain binder, J. F. Appleby. Grate, shaking, A. McDonald. Gun. machine, F. E. Schultze	208,162 208,071 208,051 208,051 208,051 208,051 208,051 208,151 208,176 208,181
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp Cultivator, cotton, W. W. Harvey Curtain roller and bracket, H. L. Werne Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers Electric alarms, etc. switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright Engine, dummy, J. P. Thomas Eyeleting machine, W. oodward & Goodson Felting machine, W. Keenan Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean Firearm, magazine, F. W. Tlesing. Fire axtinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg Floor cloth, manufacture of, J. Robley. Food preserving compound, R. S. Dashiell Fruit picker, I. Gothard Frunace, gas retort, G. Siegel Furnace, hot air, J. W. Crary (r). Furnace, steam boiler, C. D. Smith Gas regulator, J. Adams Gas retorts, J. Slade (r) Gless tempering, F. S. Shirley Governor, steam engine, B. Brazelle. Governor, steam engine, B. Brazelle. Grain binder, J. F. Appleby. Grain separator, A. J. Humphreys Grate, shaking, A. McDonald Gun, machine, F. E. Schultze Grate, shaking, A. McDonald Gun, spring air, C. Herzfeldt, Jr. Harness breast collar, R. Pattin. Harvester guard finger, Ballew & Fuller. Harvester guard finger, Ballew & Fuller. Havester guard finger, Ballew & Fuller. Hoge nozzle. Raymond & Perkins Husking and shelling implement, L. F. Johnston	208,162 208,071 208,051 208,051 208,051 208,051 208,051 208,151 208,176 208,181
Corsets, manufacture of, A. Fellheimer. Cotton condenser, T. Camp. Cradle, E. Whitehead. Crane, hydraulic, S. T. Wellman Cultivator, F. M. Cropp. Cultivator, cotton, V. W. Harvey. Curtain roller and bracket, H. L. Werne. Door Securer, W. A. Ingalls. Dredge bottle, W. Sellers. Electric alarms, etc., switch for, P. Ernwein. Elevator bucket, W. J. Bennett. Elevator, M. V. B. Wright. Elevator, W. Keenan. Fence barb, wire, Baker & Bestor Fence, portable, W. McLaughlin Filter, J. & R. Bean. Firearm, breech-loading, C. E. & R. Green. Firearm, magazine, F. W. Tiesing. Fire extinguisher, car stove, P. P. Quackenboss. Flat iron heater, N. Crotsenberg. Floor cloth, manufacture of, J. Robley. Food preserving compound, R. S. Dashiell Fruit picker, I. Gothard. Fruit picker, I. Gothard. Frunace, gas retort, G. Siegel. Furnace, steam boiler, C. D. Smith. Gas regulator, J. Adams. Gas retorts, J. Slade (r) Glass tempering, F. S. Shirley. Governor, steam engine, B. Brazelle. Grain binder, J. F. Appleby. Grate, shaking, A. McDonald. Gun. machine, F. E. Schultze	208,162 208,071 208,051 208,051 208,051 208,051 208,051 208,151 208,176 208,181