### Business and Lersonal.

The Charge for Insertion under this head 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,

Lubricene.-A Lubricating Material in the form of a Grease. One pound equal to two gallons of sperm oil. R. J. Chard, New York.

Assays of Ores, Analyses of Minerals, Waters, Com mercial Articles, etc. Technical formulæ and processes Laboratory, 33 Park Row, N. Y. Fuller & Stillman.

up a lucrative foreign trade, will do well to insert a well displayed advertisement in the Scientific American for beguiling the tedium of a summer journey. t Edition. This paper has a very large foreign

Cutters, shaped entirely by machinery, for cutting teeth of Gear Wheels. Pratt & Whitney Co., Manufacturers, Hartford, Conn

18 ft. Steam Yacht, \$250. Geo.F.Shedd, Waltham, Mass.

Electrical instruments of all kinds. One Electric Bell, Battery, Push Button, and 50 feet Wire for \$4.00. Send for catalogue. H. Thau, 128 Fulton St., N. Y.

Wheels and Pinions, heavy and light, remarkably strong and durable. Especially suited for sugar mills and similar work. Pittsburgh Steel Casting Company, Pittsburgh, Pa.

Boilers ready for shipment, new and 2d hand, For a good boiler, send to Hilles & Jones, Wilmington, Del. Best Steam Pipe & Boiler Covering. P.Carey, Dayton, O. Foot Lathes, Fret Saws, 6c., 90 pp. E.Brown, Lowell, Ms. Sperm Oil, Pure. Wm. F. Nye, New Bedford, Mass.

Power & Foot Presses, Ferracute Co., Bridgeton, N. J. Kreider, Campbell & Co., 1030 Germantown Ave., Phila., Pa., contractors for mills for all kinds of grinding.

Punching Presses, Drop Hammers, and Dies for working Metals, etc. The Stiles & Parker Press Co., Middle

All kinds of Saws will cut Smooth and True by filing them with our New Machine, price \$2.50. Illu Circular free. E. Roth & Bro., New Oxford, Pa.

"The Best Mill in the World," for White Lead, Dry,

A Practical Engineer and Machinist, 24 years' experience. Best of reference, marine or stationary; forge; fit; repair. W. Barker, 433 2d Ave., N. Y.

Hydraulic Presses and Jacks, new and second hand. Lathes and Machinery for Polishing and Buffing metals. E. Lyon & Co., 470 Grand St., N. Y.

Nickel Plating .- A white deposit guaranteed by using our material. Condit, Hanson & Van Winkle, Newark, N.J.

Cheap but Good. The "Roberts Engine," see cut in this paper, June 1st, 1878. Also horizontal and vertical engines and boilers. E. E. Roberts, 107 Lib-

The Cameron Steam Pump mounted in Phosphor Bronze is an indestructible machine. See ad. back page. Presses, Dies, and Tools for working Sheet Metals, etc. Fruit and other Can Tools. Bliss & Williams, Brooklyn, N. Y., and Paris Exposition, 1878.

The Scientific American Export Edition is published monthly, about the 15th of each month. Every number comprises most of the plates of the four preceding weekly numbers of the SCIENTIFIC AMERICAN, with other appropriate contents, business announcements, etc. It forms a large and splendid periodical of nearly one hundred quarto pages, each number illustrated with about one hundred engravings. It is a complete record of American progress in the arts.

Bound Volumes of the Scientific American,-I will per degree of color is obtained. sell bound volumes 4, 10, 11, 12, 13, 16, 28, and 32, New Series, for \$1 each, to be sent by express. Address John Edwards, P. O. Box 773, New York.

For Solid Wrought Iron Beams, etc.. see advertisement. Address Union Iron Mills, Pittsburgh, Pa., for

Pulverizing Mills for all hard substance and grinding purposes. Walker Bros. & Co., 23d and Wood St., Phila. 2d hand Planers, 7' x 30", \$300; 6' x 24", \$225; 5' x 24", \$200; sc. cutt. b'k g'd Lathe, 9' x 28", \$200; A.C. Stebbins, Worcester, Mass.

J. C. Hoadley, Consulting Engineer and Mechanical and Scientific Expert, Lawrence, Mass.

Best Wood Cutting Machinery, of the latest improved kinds, eminently superior, manufactured by Bentel, Margedant & Co., Hamilton, Ohio, at lowest prices. Water Wheels, increased power. O.J.Bollinger, York, Pa.

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 steel now running and proved superior to wrought iron. Circulars and price list free. Address Chester Steel Castings Co., Evelina St., Philadelphia, Pa.

į 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.

having cold bearings. F.F.& A.B.Landis, Lancaster, Pa. above, than on a farm having a flat surface, the area of N.J., gave the best results at Centennial tets.

Hand Fire Engines, Lift and Force Pumps for fire nd all other purposes. Address Rumsey & Co., Seneca Falls, N.Y., U.S. A. For Shafts, Pulleys, or Hangers, call and see stock

kept at 79 Liberty St. Wm. Sellers & Co.

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

### NEW BOOKS AND PUBLICATIONS.

METALS AND THEIR CHIEF INDUSTRIAL AP-12mo; pp. 191. Price \$1.25.

course of lectures delivered at the Royal Institution of Great Britain in 1877, with thirty or more engraved il- be substituted with advantage for the bar magnet.

lustrations of various metallurgical operations. The author discusses briefly, yet with sufficient fullness for popular purposes, the principal processes for reducing | metals from their ores, the natural sources of metals, the metallurgy of the different metals, the physical properties of metals, and their thermic, electric, and A. The taper will be concave, chemical relations. The style is simple and the matter well chosen.

Dosia. A Russian Story. Translated from the French of Henry Greville, by Mary Neal Sherwood. Boston: Estes & Laurieal Sherwood. Boston: Estes & Lauriat. Price \$1.50.

This is the seventh of the Cobweb Series of choice fiction: a bright, wholesome but rather thin story, as Manufacturers of Improved Goods who desire to build befits its associations. Novel readers will find it an amusing companion for a rainy day in the country, or



- (1) H. P. says: Please inform me of some recipe for removing superfluous hair. A. Make a strong solution of sulphuret of barium into a paste with powdered starch. Apply immediately after being mixed and allow to remain for ten or fifteen minutes See also p. 107 (8), vol. 38, and p. 25, current volume.
- (2) M. A. C. writes: I would like to know how to dissolve bleached shellac, to make it a cement for stone. A. Dissolve it by digestion in 3 or 4 parts of strong alcohol, or by the aid of 1/4 its weight of borax in about 4 volumes of boiling water.
- (3) A. K. asks: 1. In rating substances as to hardness, diamond being No. 10, how do aluminum, osmium, iridium and steel as used in steel pens, number, also common and tempered glass? A. Aluminum about 3, iridosmine 6.5 to 7, steel 5.5 to 6, glass 5 to 5.5. 2. Can glass 1 inch in thickness be ground to angles of 15 per cent or less, and points as fine as pins, without for positions. difficulty, and how? A. No.
- cleaning and polishing dirty and tarnished brass. A. Dip for a short time in strong hot aqueous solution of Paste, or Mixed Paint, Printing Ink, Chocolate, Paris
  White, Shoe Blacking, etc., Flour, Meal, Feed, Drugs,
  Cork, etc. Charles Ross, Jr., Williamsburgh, N. Y.

  again, and finish with whiting.
  - (5) C. J. H. asks for the simplest way of producing a coating of the magnetic or black oxide of iron on iron plates 3 feet x 6 feet. I think it is called the Barff process, A. See pp. 1041 Scientific Ameri-CAN SUPPLEMENT, and 232, vol. 36, and 4, vol. 37, of the SCIENTIFIC AMERICAN.

How can I make tissue paper impervious to air and water, and yet strong enough to confine gas? A. You may pass the fabric through a solution of about 1 part caoutchouc in 35 parts of carbonic disulphide, exposing it then to the air until the solvent has evaporated.

- (6) J. H. J. asks how to use hyposulphite (?) of soda to neutralize chloride of lime in cotton and linen goods after bleaching the same. A. After washing from it the large excess of the hypochlorite, the fabric is passed slowly through a solution containing about 10 per cent of the hyposulphite, and then again thoroughly washed in clean water.
- ink to rule faint lines, such as he is now writing on. He wants it to rule unit columns in books. A Dissolve in a R  $\frac{R+2\frac{1}{3}}{R} \times 100$ . wants it to rule unit columns in books. A. Dissolve in a small quantity of warm water 20 parts of Prussian blue dilute the solution with thin gum water until the pro-
- (8) A. I. B. asks: Can I add anything to Arnold's writing fluid which will cause it to give a good free copy in my letter book? A. Try a little sugar.
- (9) R. & C. ask for information in regard to the process of printing copies of drawings made on transparent materials, by using chemically prepared paper and exposing to the sunlight. A. It is based on the fact that an acid in the presence of potassium dichromate strikes a blackish-green color when brought in contact with aniline. The paper is prepared by floating iton a bath of aqueous solution of potassium dichromate and a trace of phosphoric acid, and then drying it in the dark. Aniline is dissolved in a little alcohol, and the mixed vapors allowed to come into contact with the sensitive paper that has been exposed to strong sunlight beneath the drawing, when the portions not changed by the sunlight assume the dark color mentioned. All that is requisite is that the paper or cloth original should be fairly penetrable by the light. A piece of paper sensitized as indicated, a sheet of glass to place over the drawing, and a box in which to place the exposed print to the aniline vapor are the only necessary plant.
- of acres in a farm of valley and hillside land, is it by wire by pickling it for a short time in very dilute sulmeasuring the general contour of the land, allowing its phuric acid and scouring with sand if necessary. Then of Water Supply and Fire Protection for actual surface, or by measuring and allowing only the Cities and Villages. See advertisement in Scientific American of last week.

  See advertisement in Scientific imaginary face of the plane of it? A. The latter is phate dissolved in water. 2. Can wire be thus finished American of last week.

  A. The latter is phate dissolved in water. 2. Can wire be thus finished imaginary face of the plane of it? A. The latter is phate dissolved in water. 2. Can wire be thus finished and also annealed? If so, how? A. The wire should the correct method. 2. Can more grain, say rve, be The only Engine in the market attached to boiler raised on a farm of valley and hillside land, as described be annealed first. 3. What other finish can be put on The Turbine Wheel made by Risdon & Co., Mt. Holly, which is equal to the plane of the former, all other things supposed to be equal? A. No.
  - (11) Inventor asks: 1. Can you tell me of a book on sound boards? A. We do not know of a book especially devoted to the subject. 2. Also the best kind of wood to make them out of? A. Spruce.
  - (12) F. C. A. writes: I wish to construct a bar electro-magnet to go in a cylinder 1 inch in diame-What number of wire shall I use, and what number of 24silk covered wire. Use 6 or 8 cells. 2. In the same space, could a horseshoe magnet be used, with a gain of

(13) W. C. H. writes: In turning a tapering shaft in an engine lathe, will the tool if raised above the centers of the lathe turn the taper true from end to end, i. e., neither concave nor convex, the taper to be me by sliding the tail center the required distance?

- (14) H. E. H. asks how to make lime light. A. The lime light is made by directing the jet of an oxyhydrogen blowpipe against a cylinder of lime. The blowpipe is contrived to take the proper proportion of oxygen and hydrogen gas, and the lime is placed in the reducing focus of the jet
- (15) L. F. asks: 1. How many Daniell's or Smee's cells would itrequire to produce the same effect as 50 Bunsen cells? A. About 100. 2. Is the diaphragm equally necessary in Bunsen's, Smee's and Daniell's cells, or can it be omitted in any one of them easier than in the others, and why so? A. The diaphragm or porous cell is required in Daniell's and Bunsen's batteries, but is not used in Smee's. The porous cell is used only in two fluid batteries; its object is to allow the current to pass, but to prevent the mixture of the two liquids. 3. Is the thickness of the zinc of any importance? A. Only that the thicker zinc lasts longer. 4. Which is the cheapest way to produce electric sparks and to charge a Leyden jar, and what will be the expense? A. By means of a frictional electrical machine. The machines cost from \$10 upward.
- (16) R. C. K. writes: I am an engineer by trade; have been at it 9 years. Am out of a position at present and want to learn mechanical draughting. How long would it take me to become a good draughtsman by taking a special course at some university? And with my knowledge of engineering and draughting, would my services be likely to be in fair demand? A. If you are familiar with mechanical operations, you might become a good draughtsman by close application under a competent instructor for one or two years. At present there are many excellent draughtsmen looking
- (17) G. B. M. asks for the cause of the ribs (4) D. C. S. asks for a good recipe for orridges on the surface of a piece of timber which has passed through a planing machine. A. They are frequently due to the intermittent motion of the feed.
  - (18) A. F. writes: Having a small quantity of gold and gold plated things, I would like to know the simplest way to melt it. A. Put it in a small crucible with a little borax and melt in a common kitchen fire.
  - (19) J. H. S. writes: I have three drawings each 21 x 30 inches, which I wish to mount upon cloth like a map, placing them end to end so as to make one whole sheet 90 inches long. The drawings are upon heavy Whatman paper. A. You should stretch wet canvas or factory cloth upon a frame, and while it is still damp apply paste to the backs of the drawings and lay them smoothly on the stretched cloth. When the paste becomes thoroughly dry cut the cloth from the stretching frame and paste a tape binding around the
- (20) P. M. asks: What is the difference between the inner and outer rails of a 10° curve 100 yards in length, gauge 4 feet 8 inches? A. If this 100 yards is measured on the center of the curve, whose radius in (7) Columbus asks for a recipe for making feet is R, the length of the inner rail is  $\frac{R-2i}{R} \times 100$ ,
- (21) W. B. K. asks how to make a shoe by the aid of 3 parts of potassium ferrocyanide, and dressing for ladies' shoes. A. Soft water, 1 gallon; extractof logwood, 6 ozs.; dissolve at a temperature of about 120° Fah. Soft water, 1 gallon; borax, 6 ozs.; shellac, 11/2 oz.; boil until dissolved. Potassium dichromate, % oz.; hot water, 1/2 pint; dissolve, and add all together. It is preferred to add 3 ozs. of strong aqua ammonia to the liquid before bottling.
  - (22) J. D. asks: What chemicals can be put into water to increase its efficiency in extinguishing fire? A. Carbonic acid; sodium carbonate.
  - (23) H. P. writes: Please give me the advantages and disadvantages of substituting a galvanized iron tube 18 inches in diameter and 20 feet high for a wood tank, 5 feet wide and 6 deep, as a container of water in a dwelling house in the country. Would the narrower body of water keep fresh or sweet longer, etc.? Also the thickness of iron necessary to safety, and the number of gallons of water this tube would hold. A. The advantages are in favor of the wooden tank; zinc lined vessels (galvanized) are unsuitable for reservoirs for potable water. See p. 369, vol. 36, SCIENTIFIC AMER-ICAN. 0.3 inch iron would be stout enough. A pipe of the dimensions specified would contain about 327 gallons when full.
- (24) F. L. M. asks: 1. What is the process (10) P. Y. P. writes: 1. To find the number | by which wire is given a copper finish? A. Clean the ss the clean wire through a strong bath iron wire (annealed), and by what process? A. Zincby passing the clean wire through molten zinc covered with sal ammoniac; tin-by drawing the wire through a bath of molten tin covered with tallow.

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

J. H. McF.-A fine quality of kaolin.-F. C. H.-The floury powder consists chiefly, if not altogether, of calter and 1 inch long. 1. What size ought the core to be? cium carbonate.—C. L. G.—They are all silicious limestones. We cannot judge fairly of their value for build-Léclanché cells shall I use (not to exceed twelve) to obig purposes from the powders sent. - D. K. - Ferrugintain the greatest possible attractive power, distance of our earth or marl.—A. E.—It is a partially decomposed PLICATIONS. By Charles R. Alder Wright, London: Macmillan & Co. 24silk covered wire. Use 6 or 8 cells. 2. In the same pure silicious kaolin.—E.—It is a partially decomposed of an inch? A. Make the core % inch, wind it with No. feldspar. The white powder is for the most part an important production of an inch? A. Make the core % inch, wind it with No. feldspar. The white powder is for the most part an important production of an inch? A. Make the core % inch, wind it with No. pure, silicious, kaolin.—E.H.—It consists chiefly of basic carbonate and hydrated oxide of lead-poisonous, -J, In this neat little volume we have the substance of a power over the bar magnet? A. A cylindrical magnet, B. V.—It is a fair quality of pipe clay—impure silicate which is substantially the same as a horseshoe, might of alumina-probably worth about \$2 per ton in New York.

### COMMUNICATIONS RECEIVED.

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

Religion, By W. M. E. Cause of Explosion in Flouring Mills, By G. M.

[OFFICIAL.]

### INDEX OF INVENTIONS

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

May 28, 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.

Acid, recovering waste sulphuric, A. Penissat.... 204,244

. '	Axle box slide, car, G. Williams	904,24
	Axle nut, adjustable, O. B. Thompson	204,399
	Axles, sand guard for carriage, M. C. Nay	
	Baker and cooker, steam, J. A. McClure	204,35
	Bale tie, L. Arnold	204,18
	Baletie, Wynkoop & Bloomingdale	
١,	Barrel and box, moth-proof, M. L. Thompson	204,263
1	Barrel for shipping bottled liquors, S. Strauss	204,259
i	Barrel washer, H. Binder	204,28
. '	Bed bottom, T. & O. Howe	204,22
	Bed bottom, G. S. Walker	204,40
١.	Bedstead, wardrobe, Hand & Caulier	204,32
i	Bedstead, wardrobe, E. Kiss	
	Bedstead, invalid attachment for, T.T.Kendrick.	204,232
	Belting, rubber, C. T. Petchell	204,36
,	Bending links, machine for, H. E. Grant	204,31
	Boiler brooms, operating, A. C. Cock	204.20
	Boiler brooms, operating, A. C. Cock Boilers, removing sediment from, T.C. Purves	204,25
	Boots and shoes, making, Hurst & Miller	204,33
	Bottle stopper, H. Martin	204.35
	Bottle stopper fastener, L. Kutscher	
	Brake, car. J. Ramsey, Jr.	204.37
	Brake for railway carriages, R. D. Sanders	204.37
	Brake for railway trains, safety, L. Blanck	204 18
	Brake horse I Spitz	204 25
	Brake, horse, I. Spitz	204.88
	Brake shoe, W. McConway (r)	8,25
	Brick kiln, E. F. Andrews	904 19
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1	Bridge eyes, making, A. Schneiderlochner Bridge, self-adjusting, B. Williams	204,00
	Buckle, trace, Landon & Decker	204,40
	Burial apparatus, Patterson & Wheeler	
i	Duriel angles W. Hamilton	204,000
	Burial casket, W. Hamilton	904 10
į	Can, fish, bait, and oyster, R. Roney Can, refrigerating, transportation, W. A. Moore	204,10
i	Car counling f. Gargor	904,20°
	Car coupling, L. Gasser	
	Car coupling, C. A. Roberts	204,21
	Car coupling, C. A. Roberts	204,25
1	Car, sleeping, A. Jaeger	204,20
1	Cars, dust arrester for railway, A. Clarke	204,13
	Carbureter, gas and air, Dusenbury & Winn	
	Carriage seats, corner iron for, W.B.C. Hershey Carriages, reversible handle for, A. Shoeninger	204,02
	Casting apparatus, J. Duff	
	Castings, moulding dovetails, Burdick & Easterly Celluloid, etc., core and tube former, J. W. Hyatt.	204,123
	Celluloid tubes and hollow articles, J. W. Hyatt.	904 999
	Celluloid bar or spring coater, Hyatt & Burroughs	904,000
	Chair, convertible, M. V. Lunger	
	Chair, invalid, E. C. Jones	
	Chair, rocking, L. Rausch	204,878
	Chuck, A. Saunders	
	Churn, Barrett & Smith	
,	Churning apparatus, A. N. Myers	
į	Churning apparatus, J. A. Perry	204,243
	Clasp for ribbons on rolls, H. G. & C. G. Hubert.	
ï	Clevis, double tree, A. Rosier	
	Clew line leader, S. R. Brooks	204,290
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	Clock, repeating, H. Thompson	204,178
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	Clothes drier, W. F. Wilson	
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ī	Cock, stop, G. N. Munger	204,162
1	Cooler, beer, H. F. Schmidt	204,380
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	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond. Drills, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert Engine cylinder, steam, G. E. Banner. Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill Engine, wind, Longyear & Clark. Envelope, Shade & Lockwood	204,127 8,26; 8,26; 8,26; 204,176 204,207 204,23; 204,14; 204,24; 204,24; 204,25; 204,23; 204,23; 204,24; 204,24; 204,25;
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond. Drills, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert. Engine cylinder, steam, G. E. Banner. Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill. Engine, wind, H. N. Hill. Engine, wind, Elosyear & Clark Envelope, Shade & Lockwood Escapement, W. A. Wales	204,127 8,26; 8,26; 8,26; 204,17; 204,20; 204,24; 204,24; 204,26; 204,26; 204,22; 204,23; 204,24; 204,25; 204,25; 204,25;
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond. Drills, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert. Engine cylinder, steam, G. E. Banner Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill. Engine, wind, Longyear & Clark. Envelope, Shade & Lockwood Escapement, W. A. Wales. Excayator and plow. W. M. Smith	204,127 204,415 8,265 8,265 204,176 204,285 204,145 204,245 204,245 204,255 204,225 204,245 204,245 204,245 204,250 20
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond. Drillis, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert. Engine cylinder, steam, G. E. Banner Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill. Engine, wind, Longyear & Clark Envelope, Shade & Lockwood Escapement, W. A. Wales. Excavator and plow, W. M. Smith Eyeglasses, J. F. Traub.	204,127 204,415 8,26; 8,26; 204,176 204,235; 204,144 204,24; 204,25; 204,25; 204,25; 204,25; 204,25; 204,25; 204,25; 204,25; 204,25; 204,25; 204,25; 204,25; 204,25; 204,25; 204,26;
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond. Drills, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert. Engine cylinder, steam, G. E. Banner. Engine standard and cylinder, steam, G. E.Banner Engine, wind, H. N. Hill. Engine, wind, Longyear & Clark. Envelope, Shade & Lockwood Escapement, W. A. Wales. Excavator and plow, W. M. Smith Eyeglasses, J. F. Traub. Fence, hedge, I. O. Childs.	204,127 204,412 8,26; 804,177 204,207 204,239 204,144 204,245 204,25; 204,25; 204,25; 204,25; 204,26; 204,40; 204,38; 204,25; 204,40; 204,26; 204,40; 204,26; 204,40; 204,26; 204,40; 204,38; 204,26;
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond. Drills, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert. Engine cylinder, steam, G. E. Banner Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill. Engine, wind, H. N. Hill. Engine, wind, Longyear & Clark Envelope, Shade & Lockwood Escapement, W. A. Wales Excavator and plow, W. M. Smith Eyeglasses, J. F. Traub. Fence, hedge, I. O. Childs. Fence, hedge, I. O. Childs.	204,127 204,412 8,26; 804,17; 204,207 204,235; 204,14; 204,235; 204,235; 204,235; 204,25; 204,26; 204,26; 204,26; 204,26; 204,36; 204,27; 204,28; 204,28; 204,28; 204,28; 204,28; 204,28; 204,28; 204,28; 204,28; 204,28; 204,28; 204,28; 204,28;
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond Drillis, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert Engine cylinder, steam, G. E. Banner. Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill Engine, wind, Longyear & Clark Envelope, Shade & Lockwood Escapement, W. A. Wales Excavator and plow, W. M. Smith Eyeglasses, J. F. Traub. Fence, hedge, I. O. Childs Fence, iron, F. R. Martin Fence post, O. Allen	204,127 204,412 8,265 8,265 204,176 204,235 204,246 204,246 204,235 204,235 204,225 204,245 204,245 204,256
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond. Drills, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert. Engine cylinder, steam, G. E. Banner Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill. Engine, wind, Longyear & Clark. Envelope, Shade & Lockwood Escapement, W. A. Wales. Excavator and plow, W. M. Smith Eygelasses, J. F. Traub. Fence, hedge, I. O. Childs. Fence, iron, F. R. Martin. Fence post, O. Allen. Fence post, H. A. Pierce.	204,127 204,413 8,263 8,263 204,176 204,230 204,244 204,244 204,256 204,256 204,256 204,260 20
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond. Drills, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert. Engine cylinder, steam, G. E. Banner. Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill. Engine, wind, H. N. Hill. Engine, wind, Longyear & Clark Envelope, Shade & Lockwood Escapement, W. A. Wales Excavator and plow, W. M. Smith Eyeglasses, J. F. Traub. Fence, hedge, I. O. Childs. Fence, iron, F. R. Martin. Fence post, O. Allen. Fence post, H. A. Pierce. Fence, wire, W. H. H. Frye.	204,127 204,419 8,266;8,264;204,204,202 204,20
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond Drillis, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert Engine cylinder, steam, G. E. Banner. Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill Engine, wind, Longyear & Clark Envelope, Shade & Lockwood Escapement, W. A. Wales Excavator and plow, W. M. Smith Eyeglasses, J. F. Traub. Fence, hedge, I. O. Childs Fence, iron, F. R. Martin Fence post, H. A. Pierce Fence, wire, W. H. H. Frye. Field roller, T. B. Rice, Jr	204,127 206,412 8,266;8,265 204,17(204,207 204,207 204,207 204,202 204,203 204
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond. Drills, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert. Engine cylinder, steam, G. E. Banner Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill. Engine, wind, Longyear & Clark. Envelope, Shade & Lockwood Escapement, W. A. Wales. Excavator and plow, W. M. Smith Eyeglasses, J. F. Traub. Fence, hedge, I. O. Childs. Fence, iron, F. R. Martin. Fence post, O. Allen. Fence post, H. A. Pierce. Fence, wire, W. H. H. Frye Field roller, T. B. Rice, Jr. File, newspaper, D. H. King	204,121 204,421 8,266 8,266 8,266 204,17(70 204,200 204,282 204,421 204,282 20
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond. Drills, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert. Engine cylinder, steam, G. E. Banner Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill. Engine, wind, Longyear & Clark. Envelope, Shade & Lockwood Escapement, W. A. Wales. Excavator and plow, W. M. Smith Eyeglasses, J. F. Traub. Fence, iron, F. R. Martin. Fence post, O. Allen. Fence post, O. Allen. Fence, wire, W. H. H. Frye. Field roller, T. B. Rice, Jr. File, newspaper, D. H. King. Fire alarm signal box, R. N. Tooker (r)	204,122 204,413 204,243 204,25
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond. Drills, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert. Engine cylinder, steam, G. E. Banner Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill. Engine, wind, Longyear & Clark. Envelope, Shade & Lockwood Escapement, W. A. Wales. Excavator and plow, W. M. Smith Eyeglasses, J. F. Traub. Fence, iron, F. R. Martin. Fence post, O. Allen. Fence post, O. Allen. Fence, wire, W. H. H. Frye. Field roller, T. B. Rice, Jr. File, newspaper, D. H. King. Fire alarm signal box, R. N. Tooker (r)	204,122 204,413 204,243 204,25
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond. Drills, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert. Engine cylinder, steam, G. E. Banner Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill. Engine, wind, Longyear & Clark Envelope, Shade & Lockwood Escapement, W. A. Wales. Excavator and plow, W. M. Smith Eyeglasses, J. F. Traub. Fence, hedge, I. O. Childs. Fence, iron, F. R. Martin. Fence post, O. Allen. Fence post, O. Allen. Fence post, H. A. Pierce. Fence, wire, W. H. H. Frye. Field roller, T. B. Rice, Jr. File, newspaper, D. H. King. Fire alarm signal box, R. N. Tooker (r) Firearm, revolving, B. F. Joslyn. 204,334, Firearms, extractor for, B. F. Joslyn. 204,334, Firearms, extractor for, B. F. Joslyn. 204,334,	204,121 8,266 8,266 8,266 8,266 804,170 204,207 204,20
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond. Drills, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert. Engine cylinder, steam, G. E. Banner. Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill. Engine, wind, Longyear & Clark. Envelope, Shade & Lockwood Escapement, W. A. Wales. Excavator and plow, W. M. Smith Eyeglasses, J. F. Traub. Fence, iron, F. R. Martin. Fence post, O. Allen. Fence, wire, W. H. H. Frye. Field roller, T. B. Rice, Jr. File, newspaper, D. H. King Fire alarm signal box, R. N. Tooker (r) Firearm, revolving, B. F. Joslyn. 204,334, Firearms, extractor for, B. F. Joslyn. 204,336, Fire escape, I. D. Cross	204,121 204,411 8,266 8,266 8,266 804,170 204,282 204,242 204,282 204,242 204,242 204,242 204,242 204,242 204,242 204,242 204,242 204,242 204,242 204,242 204,243 204,243 204,243 204,243 204,244 204,345 204,243 204,243 204,244 204,345 204,
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond. Drills, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert. Engine cylinder, steam, G. E. Banner Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill. Engine, wind, H. N. Hill. Engine, wind, Longyear & Clark Envelope, Shade & Lockwood Escapement, W. A. Wales Excavator and plow, W. M. Smith Eyeglasses, J. F. Traub. Fence, hedge, I. O. Childs. Fence, iron, F. R. Martin. Fence post, O. Allen Fence post, O. Allen Fence post, H. A. Pierce. Fence, wire, W. H. H. Frye Field roller, T. B. Rice, Jr. File, newspaper, D. H. King Fire alarm signal box, R. N. Tooker (r) Firearm, revolving, B. F. Joslyn. 204,334, Firearms, extractor for, B. F. Joslyn. 204,336, Fire escape, I. D. Cross Flour, manufacturing, R. L. Downton	204,121 204,411 8,266 8,266 8,266 804,270 204,282 204,212 204,282 204,212 204,222 204,212 204,222 204,212 204,222 204,212 204,
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond. Drills, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert. Engine cylinder, steam, G. E. Banner Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill. Engine, wind, Longyear & Clark. Envelope, Shade & Lockwood Escapement, W. A. Wales. Excavator and plow, W. M. Smith Eyeglasses, J. F. Traub. Fence, hedge, I. O. Childs. Fence, iron, F. R. Martin. Fence post, O. Allen. Fence post, O. Allen. Fence post, H. A. Pierce. Fence, wire, W. H. H. Frye. Field roller, T. B. Rice, Jr. File, newspaper, D. H. King. Fire alarm signal box, R. N. Tooker (r) Firearm, revolving, B. F. Joslyn. 204,334, Firearms, extractor for, B. F. Joslyn. 204,336, Fire escape, I. D. Cross. Flour, manufacturing, R. L. Downton. Fruit pitting and cutting machine, C. P. Bowen.	204,122 204,401 204,401 204,201 204,201 204,202 204,204 204,202 204,202 204,202 204,202 204,202 204,202 204,202 204,20
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond. Drills, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert. Engine cylinder, steam, G. E. Banner Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill. Engine, wind, Longyear & Clark. Envelope, Shade & Lockwood Escapement, W. A. Wales. Excavator and plow, W. M. Smith Eyeglasses, J. F. Traub. Fence, hedge, I. O. Childs. Fence, iron, F. R. Martín. Fence post, O. Allen. Fence post, O. Allen. Fence wire, W. H. H. Frye. Field roller, T. B. Rice, Jr. File, newspaper, D. H. King. Fire alarm signal box, R. N. Tooker (r) Firearm, revolving, B. F. Joslyn. 204,334, Fire escape, I. D. Cross Flour, manufacturing, R. L. Downton. Fruit pitting and cutting machine, C. P. Bowen. Fruit pitting machine, A. T. Hatch.	204,121 204,411 8,266 8,266 8,266 8,266 804,170 204,282 204,28
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond. Drills, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert. Engine cylinder, steam, G. E. Banner Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill. Engine, wind, Longyear & Clark. Envelope, Shade & Lockwood Escapement, W. A. Wales. Excavator and plow, W. M. Smith Eygelasses, J. F. Traub. Fence, iron, F. R. Martin. Fence post, O. Allen. Fence, wire, W. H. H. Frye. Field roller, T. B. Rice, Jr. File, newspaper, D. H. King. Fire alarm signal box, R. N. Tooker (r) Fire alarm signal box, R. N. Tooker (r) Fire arm, revolving, B. F. Joslyn. 204,334, Firearms, extractor for, B. F. Joslyn. 204,336, Fire escape, I. D. Cross. Flour, manufacturing, R. L. Downton. Fruit pitting machine, A. T. Hatch. Furnace, brass melting, J. Fletcher.	204,121 204,411 8,266 8,266 8,266 804,170 204,282 204,382 204,292 204,382 204,292 204,382 204,292 204,382 204,292 204,382 204,292 204,382 204,482 204,
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond. Drills, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert. Engine cylinder, steam, G. E. Banner Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill. Engine, wind, Longyear & Clark. Envelope, Shade & Lockwood Escapement, W. A. Wales. Excavator and plow, W. M. Smith Eygelasses, J. F. Traub. Fence, iron, F. R. Martin. Fence post, O. Allen. Fence, wire, W. H. H. Frye. Field roller, T. B. Rice, Jr. File, newspaper, D. H. King. Fire alarm signal box, R. N. Tooker (r) Fire alarm signal box, R. N. Tooker (r) Fire arm, revolving, B. F. Joslyn. 204,334, Firearms, extractor for, B. F. Joslyn. 204,336, Fire escape, I. D. Cross. Flour, manufacturing, R. L. Downton. Fruit pitting machine, A. T. Hatch. Furnace, brass melting, J. Fletcher.	204,121 204,411 8,266 8,266 8,266 804,170 204,282 204,382 204,292 204,382 204,292 204,382 204,292 204,382 204,292 204,382 204,292 204,382 204,482 204,
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond. Drills, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert. Engine cylinder, steam, G. E. Banner Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill. Engine, wind, Longyear & Clark. Envelope, Shade & Lockwood  Escapement, W. A. Wales. Excavator and plow, W. M. Smith Eyeglasses, J. F. Traub. Fence, hedge, I. O. Childs. Fence, iron, F. R. Martin. Fence post, O. Allen. Fence post, O. Allen. Fence post, H. A. Pierce. Fence, wire, W. H. H. Frye Field roller, T. B. Rice, Jr. File, newspaper, D. H. King Fire alarm signal box, R. N. Tooker (r) Firearm, revolving, B. F. Joslyn.  204,334, Firearms, extractor for, B. F. Joslyn.  204,335, Fire escape, I. D. Cross Flour, manufacturing, R. L. Downton. Fruit pitting and cutting machine, C. P. Bowen. Fruit pitting machine, A. T. Hatch. Furnace, brass melting, J. Fletcher. Furnace, metallurgic, H. Swindell	204,121 204,411 204,411 204,411 204,204,201 204,201 204,201 204,201 204,201 204,201 204,201 204,201 20
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond. Drills, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert. Engine cylinder, steam, G. E. Banner Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill. Engine, wind, H. N. Hill. Engine, wind, Longyear & Clark. Envelope, Shade & Lockwood Escapement, W. A. Wales. Excavator and plow, W. M. Smith Eyeglasses, J. F. Traub. Fence, iron, F. R. Martin. Fence post, O. Allen. Fence, iron, F. R. Martin. Fence post, H. A. Pierce. Fence, wire, W. H. H. Frye. Field roller, T. B. Rice, Jr. File, newspaper, D. H. King. Fire alarm signal box, R. N. Tooker (r) Fire alarm signal box, R. N. Tooker (r) Fire arm, revolving, B. F. Joslyn. 204,334, Firearms, extractor for, B. F. Joslyn. 204,336, Fire escape, I. D. Cross Flour, manufacturing, R. L. Downton Fruit pitting machine, A. T. Hatch. Furnace, brass melting, J. Fletcher. Furnace, metallurgic, H. Swindell Furnace, ore roasting, C. Stetefeldt (r).	204,121 204,421 8,266 8,266 8,266 804,170 204,282 204,202 204,282 204,212 204,222 204,440 204,222 204,440 204,232 204,232 204,242 204,242 204,242 204,312 204,232 204,242 204,312 204,
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond. Drills, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert. Engine cylinder, steam, G. E. Banner Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill. Engine, wind, Longyear & Clark. Envelope, Shade & Lockwood  Escapement, W. A. Wales. Excavator and plow, W. M. Smith Eyeglasses, J. F. Traub. Fence, hedge, I. O. Childs. Fence, iron, F. R. Martin. Fence post, O. Allen. Fence post, O. Allen. Fence post, H. A. Pierce. Fence, wire, W. H. H. Frye Field roller, T. B. Rice, Jr. File, newspaper, D. H. King Fire alarm signal box, R. N. Tooker (r) Firearm, revolving, B. F. Joslyn.  204,334, Firearms, extractor for, B. F. Joslyn.  204,335, Fire escape, I. D. Cross Flour, manufacturing, R. L. Downton. Fruit pitting and cutting machine, C. P. Bowen. Fruit pitting machine, A. T. Hatch. Furnace, brass melting, J. Fletcher. Furnace, metallurgic, H. Swindell	204,121 204,421 204,421 204,242 204,26
	Cutter, rotary, Mellor & Orum (r) Cutting board, F. Weed Desk, school, J. Edgar. Draught equalizer, J. Branning. Drilling apparatus, well, J. B. & G. R. Elliote Drilling machine, metal, D. W. Pond. Drills, spring hoe for grain, C. E. Patric. Drying kiln, E. T. Gennert. Engine cylinder, steam, G. E. Banner Engine standard and cylinder, steam, G. E. Banner Engine, wind, H. N. Hill. Engine, wind, H. N. Hill. Engine, wind, Longyear & Clark. Envelope, Shade & Lockwood  Escapement, W. A. Wales. Excavator and plow, W. M. Smith Eyeglasses, J. F. Traub. Fence, hedge, I. O. Childs. Fence, iron, F. R. Martin. Fence post, O. Allen. Fence post, O. Allen. Fence post, H. A. Pierce. Fence, wire, W. H. H. Frye Field roller, T. B. Rice, Jr. File, newspaper, D. H. King Fire alarm signal box, R. N. Tooker (r) Firearm, revolving, B. F. Joslyn.  204,334, Firearms, extractor for, B. F. Joslyn. 204,335, Fire escape, I. D. Cross Flour, manufacturing, R. L. Downton. Fruit pitting and cutting machine, C. P. Bowen. Fruirace, brass melting, J. Fletcher. Furnace, metallurgic, H. Swindell Furnace, metallurgic, H. Swindell Furnace, ore roasting, C. Stetefeldt (r). Game apparatus, M. Entenmann. Game counter, C. B. Wessmann.	204,121 204,401 204,401 204,204,201 204,201 204,201 204,201 204,201 204,201 204,201 204,201 20
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Paper and other fabrics, marbleizing G. Grossheim Paper pulp from wood, H. B. Meech (r) 8,256, 8,257, Paper pulp pail, E. Hubbard Pea nut warmer, F. A. Bowdoin Pen, fountain, T. H. & J. E. Quinn Pencil sharpener and eraser, W. Sellers Planoforte tuning attachment, H. F. Jacobs. Pianofortes, hand guide for, M. Sudderick. Pipe, stand, Lewis & Maloney Planing and sawing wood, W. H. Webb. Planter and plow, corn, D. Hays Planter, corn, H. Steckler, Jr. Plow, T. M. Moore. Plow, F. Nitschmann. Plow clevis, E. A. Sanders Pocket for garments, Y. Chow Pole, carriage, A. R. Bartram (r) Post office apparatus, G. W. Wiles. Press, cotton, Tate & Curtis. Press, cotton, Tate & Curtis. Press, power, J. L. Lewis. Pump, A. S. Baker Pumps, machinery for operating, J. W. Hull (r). Punching and beveling metal, J. Morgan (r) Railway gate, McCafrey & Larkin Railway rail joint, O. Pagen Refrigerator, R. T. Hambrook Rein guide, check, A. L. Whitney Rowlock, I. C. Mayo Rubber cutting machine, Ford, Slade, & Baylies. Rule, lumber A. J. Colburn	204,296 1 204,146 8,258 204,223 204,190 204,151 204,169 204,152 204,152 204,280 204,341 204,403 204,218 204,361 204,262 204,270 204,361 204,270 204,246 204,395 204,158 204,270 204,246 204,395 204,158 204,270 204,246 204,395 204,159 204,159 204,159 204,159 204,159 204,159 204,159 204,159 204,159 204,159 204,159 204,159 204,159 204,159 204,159
Paper and other fabrics, marbleizing G. Grossheim Paper pulp from wood, H. B. Meech (r) 8,256, 8,257, Paper pulp pail, E. Hubbard Pea nut warmer, F. A. Bowdoin Pen, fountain, T. H. & J. E. Quinn Pencil sharpener and eraser, W. Sellers Planoforte tuning attachment, H. F. Jacobs Pianofortes, hand guide for, M. Sudderick Pipe, stand. Lewis & Maloney Planing and sawing wood, W. H. Webb Planter and plow, corn, D. Hays Planter, corn, H. Steckler, Jr. Plow, T. M. Moore Plow, T. M. Moore Plow, F. Nitschmann Plow clevis, E. A. Sanders Pocket for garments, Y. Chow Pole, carriage, A. R. Bartram (r) Post office apparatus, G. W. Wiles Press, cotton, E. L. Morse Press, cotton, E. L. Morse Press, cotton, Tate & Curtis. Press, power, J. L. Lewis. Pump, A. S. Baker Pump, A. S. Baker Pumps, machinery for operating, J. W. Hull (r). Punching and beveling metal, J. Morgan (r) Rallway gate, C. P. Austin Railway rail joint, O. Pagen Refrigerator, R. T. Hambrook Rein guide, check, A. L. Whitney Rowlock, I. C. Mayo Rowlock, I. C. Mayo Ruber cutting machine, Ford, Slade, & Baylies Rule, lumber, A. J. Colburn Sash balance and lock, Rayner & Burr	204,296 1 204,146 8,258 204,223 204,190 204,152 204,152 204,152 204,254 204,280 204,361 204,263 204,279 204,280 8,263 204,279 204,280 8,261 204,279 204,160 204,269 204,152 204,279 204,162 204,279 204,162 204,279 204,163
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Paper and other fabrics, marbleizing G. Grossheim Paper pulp from wood, H. B. Meech (r) 8,256, 8,257, Paper pulp pail, E. Hubbard Pea nut warmer, F. A. Bowdoin Pen, fountain, T. H. & J. E. Quinn Pencil sharpener and eraser, W. Sellers Planoforte tuning attachment, H. F. Jacobs Planofortes, hand guide for, M. Sudderick Pipe, stand, Lewis & Maloney Planing and sawing wood, W. H. Webb. Planter and plow, corn, D. Hays Planter, corn, H. Steckler, Jr. Plow, T. M. Moore Plow, F. Nitschmann Plow clevis, E. A. Sanders Pocket for garments, Y. Chow Pole, carriage, A. R. Bartram (r) Post office apparatus, G. W. Wiles Press, cotton, E. L. Morse Press, cotton, Tate & Curtis. Press, power, J. L. Lewis. Pump, A. S. Baker Pumps, machinery for operating, J. W. Hull (r). Punching and beveling metal, J. Morgan (r) Rallway gate, C. P. Austin. Railway gate, C. P. Austin. Railway rail joint, O. Pagen Refrigerator, R. T. Hambrook Rein guide, check, A. L. Whitney Rowlock, I. C. Mayo Rubber cutting machine, Ford, Slade, & Baylies Rule, lumber, A. J. Colburn Sad iron stand, K. E. Keeler Sash balance and lock, Rayner & Burr Saw mill carriage, M. Taplin. Saw mill head block, Brett & Perry Saw sharpener, W. M. Watson Scale beam, J. Weeks Scintillator for lighting cord, W. W. Batchelder Scraper, earth, J. H. Edmondson. Screen, G. F. Halley Screen, window, G. L. Reynolds Scythe snath fastening, M. Hewitt. Seed and fertilizer distributer, W. Harper Seed distributer, J. W. Dooley Sewer trap, J. M. Thatcher Sewer trap valve, P. J. Convery. Sewer trap, J. M. Thatcher Sewer trap and process of the service	204,296 204,146 8,258 204,223 204,190 204,152 204,169 204,152 204,296 204,341 204,403 204,358 204,361 204,263 204,279 204,280 8,265 204,270 204,240 204,368 204,270 204,240 204,368 204,270 204,240 204,368 204,270 204,160 204,368 204,279 204,160 204,368 204,279 204,160 204,368 204,279 204,160 204,377 204,388 204,279 204,142 204,177 204,378 204,378 204,378 204,377
Paper and other fabrics, marbleizing G. Grossheim Paper pulp from wood, H. B. Meech (r) 8,256, 8,257, Paper pulp pail, E. Hubbard Pea nut warmer, F. A. Bowdoin Pen, fountain, T. H. & J. E. Quinn Pencil sharpener and eraser, W. Sellers Planoforte tuning attachment, H. F. Jacobs Planofortes, hand guide for, M. Sudderick Pipe, stand, Lewis & Maloney Planing and sawing wood, W. H. Webb Planing and sawing wood, W. H. Webb Planter and plow, corn, D. Hays Planter, corn, H. Steckler, Jr. Plow, T. M. Moore Plow, F. Nitschmann. Plow clevis, E. A. Sanders Pocket for garments, Y. Chow Pole, carriage, A. R. Bartram (r) Post office apparatus, G. W. Wiles Press, cotton, E. L. Morse Press, cotton, E. L. Morse Press, cotton, Tate & Curtis. Press, power, J. L. Lewis. Pump, A. S. Baker Pumps, machinery for operating, J. W. Hull (r) Punching and beveling metal, J. Morgan (r) Rallway gate, C. P. Austin. Rallway gate, C. P. Austin. Rallway gate, McGafrey & Larkin Railway rail joint, O. Pagen Refrigerator, R. T. Hambrook Rein guide, check, A. L. Whitney Rowlock, I. C. Mayo Rubber cutting machine, Ford, Slade, & Baylies Rule, lumber, A. J. Colburn Sad iron stand, K. E. Keeler. Sash balance and lock, Rayner & Burr. Saw, R. E. Poindexter Saw mill carriage, M. Taplin. Saw mill head block, Brett & Perry. Saw sharpener, W. M. Watson. Scale beam, J. Weeks. Scintillator for lighting cord, W. W. Batchelder. Scraper, earth, J. H. Edmondson. Screen, G. F. Halley Screen, window, G. L. Reynolds. Scythe snath fastening, M. Hewitt. Seed and fertilizer distributer, W. Harper Seed distributer, J. W. Dooley. Sewer trap, J. M. Thatcher. Sewer trap valve, P. J. Convery. Sewing machine needle bar, Cook & Hill. Sewing machine table, S. Hill. Sewing machine table, S. Hill. Sewing machine table, T. Lanston. Sheet metal vessels, handle for, F. Grosjean. Shipping case, J. H. Byrne.	204,296 204,146 8,258 204,223 204,190 204,152 204,169 204,152 204,263 204,270 204,263 204,270 204,240 204,263 204,270 204,264 204,270 204,264 204,270 204,264 204,270 204,264 204,270 204,264 204,270 204,264 204,270 204,264 204,270 204,264 204,270 204,264 204,270 204,264 204,270 204,264 204,270 204,264 204,270 204,264 204,270 204,264 204,270 204,270 204,270 204,280 204,270 204,280 204,270 204,280 204,270 204,280 204,270 204,380 204,270 204,380 204,270 204,380 204,374 204,380 204,374 204,380 204,374 204,380 204,374 204,380 204,374 204,380 204,374 204,380 204,374 204,380 204,374 204,380 204,374 204,380 204,374 204,380 204,374 204,380 204,374 204,380 204,374 204,380 204,374 204,380 204,374 204,380 204,374 204,380 204,374 204,380 204,374 204,380 204,381 204,381 204,381 204,381 204,381 204,381 204,381
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Paper and other fabrics, marbleizing G. Grossheim Paper pulp from wood, H. B. Meech (r) 8,256, 8,257, Paper pulp pail, E. Hubbard Pea nut warmer, F. A. Bowdoin Pen, fountain, T. H. & J. E. Quinn Pencil sharpener and eraser, W. Sellers Planoforte tuning attachment, H. F. Jacobs Pianofortes, hand guide for, M. Sudderick Pipe, stand. Lewis & Maloney Planing and sawing wood, W. H. Webb. Planter and plow, corn, D. Hays Planter, corn, H. Steckler, Jr. Plow, T. M. Moore Plow, F. Nitschmann Plow clevis, E. A. Sanders Pocket for garments, Y. Chow Pole, carriage, A. R. Bartram (r) Post office apparatus, G. W. Wiles Press, cotton, E. L. Morse Press, cotton, Tate & Curtis. Press, power, J. L. Lewis. Pump, A. S. Baker Pumps, machinery for operating, J. W. Hull (r). Punching and beveling metal, J. Morgan (r) Railway gate, McCaff.ey & Larkin Railway gate, McCaff.ey & Larkin Railway gate, c. P. Austin Railway gate, check, A. L. Whitney Rowlock, I. C. Mayo Rubber cutting machine, Ford, Slade, & Baylies Rule, lumber, A. J. Colburn Sad iron stand, K. E. Keeler Sash balance and lock, Rayner & Burr Saw, R. E. Poindexter Saw mill carriage, M. Taplin. Saw mill carriage, M. Taplin. Saw what carriage, M. Taplin. Saw mill need block, Brett & Perry. Saw sharpener, W. M. Watson. Scale beam, J. Weeks Scintillator for lighting cord, W. W. Batchelder. Screen, window, G. L. Reynolds Scythe snath fastening, M. Hewitt. Seed and fertilizer distributer, W. Harper Seed distributer, J. W.	204,296 204,146 8,258 204,223 204,190 204,152 204,169 204,152 204,291 204,291 204,361 204,361 204,261 204,261 204,279 204,280 8,261 204,280 8,261 204,279 204,160 204,368 204,279 204,160 204,368 204,279 204,160 204,368 204,279 204,160 204,368 204,279 204,160 204,279 204,160 204,279 204,160 204,368 204,279 204,159 204,160 204,279 204,160 204,279 204,160 204,279 204,160 204,375 204,375 204,375 204,375 204,375 204,371 204,379 204,177 204,379 204,147 204,379 204,159 204,149 204,177 204,379
Paper and other fabrics, marbleizing G. Grossheim Paper pulp from wood, H. B. Meech (r) 8,256, 8,257, Paper pulp pail, E. Hubbard Pea nut warmer, F. A. Bowdoin Pen, fountain, T. H. & J. E. Quinn Pencil sharpener and eraser, W. Sellers Planoforte tuning attachment, H. F. Jacobs Planoforte tuning attachment, H. F. Jacobs Planofortes, hand guide for, M. Sudderick Pipe, stand, Lewis & Maloney Planing and sawing wood, W. H. Webb Planter and plow, corn, D. Hays Planter, corn, H. Steckler, Jr. Plow, T. M. Moore Plow, F. Nitschmann Plow clevis, E. A. Sanders Pocket for garments, Y. Chow Pole, carriage, A. R. Bartram (r) Post office apparatus, G. W. Wiles Press, cotton, E. L. Morse Press, cotton, Tate & Curtis. Press, power, J. L. Lewis. Pump, A. S. Baker Pumps, machinery for operating, J. W. Hull (r) Punching and beveling metal, J. Morgan (r) Rallway gate, C. P. Austin Rallway gate, C. P. Austin Rallway gate, McGafrey & Larkin Railway rail joint, O. Pagen Refrigerator, R. T. Hambrook Rein guide, check, A. L. Whitney Rowlock, I. C. Mayo Rubber cutting machine, Ford, Slade, & Baylies Rule, lumber, A. J. Colburn Sad iron stand, K. E. Keeler Sash balance and lock, Rayner & Burr Saw, R. E. Poindexter Saw mål carriage, M. Taplin. Saw mill head block, Brett & Perry Saw sharpener, W. M. Watson Scale beam, J. Weeks Scintillator for lighting cord, W. W. Batchelder Scraper, earth, J. H. Edmondson Screen, G. F. Halley Screen, window, G. L. Reynolds Scythe snath fastening, M. Hewitt. Seed and fertilizer distributer, W. Harper Seed distributer, J. W. Dooley Sewer trap, J. M. Thatcher Sewer trap valve, P. J. Convery Sewing machine needle bar, Cook & Hill Sewing machine mechanism, E. Brosemann et al. Sewing machine table, T. Lanston Sheet metal vessels, handle for, F. Grosjean Shipping case, J. H. Byrne. Shock, In plated, L. Crooke. Shovels, manufacture	204,296 1 204,146 8,258 204,223 204,190 204,151 204,169 204,152 204,291 204,403 204,436 204,253 204,270 204,240 204,363 204,270 204,240 204,363 204,192 204,263 204,175 204,263 204,175 204,270 204,240 204,263 204,175 204,270 204,240 204,270 204,240 204,270 204,280 8,265 204,270 204,363 204,270 204,363 204,270 204,363 204,270 204,363 204,270 204,363 204,270 204,363 204,270 204,363 204,270 204,363 204,270 204,363 204,374 204,363 204,374 204,363 204,374 204,363 204,374 204,363 204,374 204,363 204,374 204,363 204,374 204,363 204,375 204,375 204,375 204,375 204,377 204,386 204,377 204,386 204,377 204,386 204,377 204,386 204,377 204,386 204,377 204,386 204,377 204,386 204,377 204,386 204,377 204,386 204,377 204,386 204,377 204,386 204,377 204,386 204,377 204,386 204,377 204,386 204,377 204,386 204,377 204,386 204,377 204,387
Paper and other fabrics, marbleizing G. Grossheim Paper pulp from wood, H. B. Meech (r) 8,256, 8,257, Paper pulp pail, E. Hubbard Pea nut warmer, F. A. Bowdoin Pen, fountain, T. H. & J. E. Quinn Pencil sharpener and eraser, W. Sellers Planoforte tuning attachment, H. F. Jacobs. Pianofortes, hand guide for, M. Sudderick. Pipe, stand, Lewis & Maloney Planing and sawing wood, W. H. Webb. Planing and sawing wood, W. H. Webb. Planter and plow, corn, D. Hays Planter, corn, H. Steckler, Jr. Plow, T. M. Moore. Plow, F. Nitschmann. Plow clevis, E. A. Sanders Pocket for garments, Y. Chow Pole, carriage, A. R. Bartram (r) Post office apparatus, G. W. Wiles Press, cotton, E. L. Morse Press, cotton, Tate & Curtis. Press, power, J. L. Lewis. Pump, A. S. Baker Pumps, machinery for operating, J. W. Hull (r) Punching and beveling metal, J. Morgan (r) Raliway gate, C. P. Austin. Railway gate, C. P. Austin. Railway gate, McCaffey & Larkin Railway rail joint, O. Pagen Refrigerator, R. T. Hambrook Rein guide, check, A. L. Whitney Rowlock, I. C. Mayo Rubber cutting machine, Ford, Slade, & Baylies Rule, lumber, A. J. Colburn. Sad iron stand, K. E. Keeler. Sash balance and lock, Rayner & Burr. Saw, R. E. Poindexter Saw mill carriage, M. Taplin. Saw mill head block, Brett & Perry. Saw sharpener, W. M. Watson. Scale beam, J. Weeks. Scintillator for lighting cord, W. W. Batchelder. Scraper, earth, J. H. Edmondson. Screen, G. F. Halley. Screen, window, G. L. Reynolds. Scythe snath fastening, M. Hewitt. Seed and fertilizer distributer, W. Harper Seed distributer, J. W. Dooley. Sewer trap, J. M. Thatcher. Sewer trap valve, P. J. Convery. Sewing machine needle bar, Cook & Hill. Sewing machine table, S. Hill. Sewing machine table, S. Hill. Sewing machine table, T. Lanston. Sheet metal vessels, handle for, F. Grosjean. Shipping case, J. H. Byrne. Shocilp, H. White (r). Shoes, rack for holding, etc., J. Priest. Shot, tin plated, L. Crooke. Shovels, manufacture of, H. M. Myers. Sink, kitchen, M. W. Scannell. Slate, apparatus for grinding, etc.,	204,296 1 204,146 8,258 204,223 204,190 204,151 204,169 204,152 204,291 204,403 204,4361 204,253 204,270 204,240 204,363 204,270 204,240 204,363 204,193 204,151 204,263 204,177 204,240 204,263 204,179 204,270 204,240 204,270 204,240 204,270 204,240 204,270 204,240 204,270 204,240 204,270 204,280 8,265 204,270 204,280 204,270 204,381 204,291 204,402 204,402 204,402 204,402 204,402 204,402 204,402 204,263 204,270 204,363 204,270 204,363 204,374 204,363 204,374 204,363 204,374 204,363 204,374 204,363 204,375 204,375 204,375 204,375 204,377 204,386 204,397 204,157 204,397 204,157 204,397 204,151 204,291
Paper and other fabrics, marbleizing G. Grossheim Paper pulp from wood, H. B. Meech (r) 8,256, 8,257, Paper pulp pail, E. Hubbard Pea nut warmer, F. A. Bowdoin Pen, fountain, T. H. & J. E. Quinn Pencil sharpener and eraser, W. Sellers Planoforte tuning attachment, H. F. Jacobs Planofortes, hand guide for, M. Sudderick Pipe, stand, Lewis & Maloney Planing and sawing wood, W. H. Webb. Planter and plow, corn, D. Hays Planter, corn, H. Steckler, Jr. Plow, T. M. Moore Plow, F. Nitschmann Plow clevis, E. A. Sanders Pocket for garments, Y. Chow Pole, carriage, A. R. Bartram (r) Post office apparatus, G. W. Wiles Press, cotton, E. L. Morse Press, cotton, Tate & Curtis. Press, power, J. L. Lewis. Pump, A. S. Baker Pumps, machinery for operating, J. W. Hull (r) Punching and beveling metal, J. Morgan (r) Rallway gate, C. P. Austin. Railway gate, C. Mayo Rubber cutting machine, Ford, Slade, & Baylies Rule, lumber, A. J. Colburn Sad iron stand, K. E. Keeler Sash balance and lock, Rayner & Burr Saw mill carriage, M. Taplin. Saw mill carriage, M. Taplin. Saw mill head block, Brett & Perry. Saw sharpener, W. M. Watson Scale beam, J. Weeks Scintillator for lighting cord, W. W. Batchelder Scraper, earth, J. H. Edmondson. Screen, G. F. Halley Screen, window, G. L. Reynolds Scythe snath fastening, M. Hewitt. Seed and fertilizer distributer, W. Harper Seed distributer, J. W. Dooley Sewer trap, J. M. Thatcher. Sewer trap, J. M. Thatcher. Sewer trap, J. M. Thatcher. Sewer gmachine mechanism, E. Brosemann et al. Sewing machine mechanism for, G. Gurney Shot, tin plated, L. Crooke. Shovels, manufacture of, H. M. Myers Sink, kitchen, M. W. Scannell Spectacle frame, J. F. Traub. Spining mules, mechanism for, G. Gurney Spring, door, O. Seely. Spring	204,296 204,146 8,258 204,223 204,190 204,152 204,169 204,152 204,240 204,341 204,403 204,353 204,199 204,255 204,270 204,240 204,260 8,261 204,260 8,261 204,270 204,394 204,396 204,396 204,396 204,270 204,160 204,396 204,260 204,396 204,270 204,157 204,397 204,157 204,397 204,157 204,397 204,157 204,397 204,157 204,397
Paper and other fabrics, marbleizing G. Grossheim Paper pulp from wood, H. B. Meech (r) 8,256, 8,257, Paper pulp pail, E. Hubbard Pea nut warmer, F. A. Bowdoin Pen, fountain, T. H. & J. E. Quinn Pencil sharpener and eraser, W. Sellers Planoforte tuning attachment, H. F. Jacobs Planofortes, hand guide for, M. Sudderick Pipe, stand, Lewis & Maloney Planing and sawing wood, W. H. Webb. Planter and plow, corn, D. Hays Planter, corn, H. Steckler, Jr. Plow, T. M. Moore Plow, F. Nitschmann Plow clevis, E. A. Sanders Pocket for garments, Y. Chow Pole, carriage, A. R. Bartram (r) Post office apparatus, G. W. Wiles Press, cotton, E. L. Morse Press, cotton, Tate & Curtis. Press, power, J. L. Lewis. Pump, A. S. Baker Pumps, machinery for operating, J. W. Hull (r) Punching and beveling metal, J. Morgan (r) Rallway gate, C. P. Austin. Railway gate, C. C. Austin. Railway gate, C. R. T. Hambrook Rein guide, check, A. L. Whitney Rowlock, I. C. Mayo Rubber cutting machine, Ford, Slade, & Baylies Rule, lumber, A. J. Colburn. Sad iron stand, K. E. Keeler. Sash balance and lock, Rayner & Burr. Saw mill carriage, M. Taplin. Saw mill head block, Brett & Perry. Saw sharpener, W. M. Watson. Scale beam, J. Weeks Scintillator for lighting cord, W. W. Batchelder. Servere, arth, J. H. Edmondson. Screen, G. F. Halley Screen, window, G. L. Reynolds Scythe snath fastening, M. Hewitt. Seed and fertilizer distributer, W. Harper Seed distributer, J. W. Dooley Sewer trap, J. M. Thatcher. Sewer trap, J. M. Thatcher. Sewer trap, J. M. Thatcher. Sewer gmachine mechanism, E. Brosemann et al. Sewing machine table, S. Hill Sewing machine table, S. Hill Sewing machine mechanism for, G. Gurney. Shot, tin plated, L. Crooke. Shovels, manufacture of, H. M. Myers Sink	204,296 204,146 8,258 204,223 204,190 204,151 204,169 204,151 204,403 204,431 204,436 204,253 204,261 204,263 204,261 204,263 204,270 204,240 204,361 204,263 204,270 204,240 204,363 204,270 204,240 204,363 204,270 204,160 204,263 204,270 204,160 204,279 204,160 204,279 204,160 204,279 204,160 204,279 204,160 204,279 204,160 204,279 204,160 204,279 204,160 204,279 204,175 204,284 204,175 204,284 204,175 204,284 204,175 204,284 204,175 204,284 204,177 204,284 204,177 204,284 204,177 204,284 204,177 204,284 204,177 204,284 204,177 204,285 204,374 204,386 204,374 204,191 204,175 204,284 204,175 204,284 204,175 204,284 204,175 204,288 204,374 204,388 204,374 204,388 204,374 204,389 204,374 204,389 204,374 204,389 204,374 204,389 204,374 204,389 204,389 204,380 204,380 204,380 204,380 204,380 204,382 204,383 204,383 204,377

 Steam generator, M. Cullen
 234,203

 Steam superheater, W. Standing
 204,173

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Stone sawing machine, Jennings & Robellaz		
Stove damper, T. White		
Stove for burning crude, etc., oils, P. Martin	4,349	
Stoves, fire pot lining for, R. J. King		
Sulphur, apparatus for refining, H. H. Eames		
Suspender ends, E. Painter		
Table, S. Robbins	204,377	
Tablet, writing, W. O. Davis	204,138	1
Tanks, etc., movable hopper, F. C. Prindle	204.370	
Target, spherical, S. A. Darrach		1
Tea and coffee pots, knob for, W. B. Choate		
Telegraph repeater, F. Catlin		
Thrashers, clover huller attachment for J. Allonas		ì
	204,174	
	204,347	÷
Tin, coating lead articles with, J. J. & L. Crooke		:
	204,238	:
Tire upsetter M. W. Griffiths		1
Toy pistol, A. F. Able	204,123	
Toy pistol, H. J. P. Whipple		÷
Trace, etc., tug coupling, Hazlewood, Jr., & Reagin		1
Track clearer, A. Day		•
Truck shifting apparatus-car, R. H. Ramsey (r)	8,259	
	204,281	٠
Tubing, manufacture of metal, B. C. Converse		ı
Valve gear for engines, L. C. Mason		
	204,343	
Vehicle, side bar, J. Kauffman		1
Vehicles, spring seat for, J. T. Yerkes		
Velocipede, H. A. Reynolds (r).	8,252	ſ
Ventilator, S. S. Thompson		1
	204,271	٠.
Warming, etc., buildings, apparatus for, L. Bennet		. !
Wash board, F. Kueny		÷
	204,311	
Wash stands, water closets, cover for, F. Grosjean		ŗ
	204,310	ļ
Watch regulator, G. Bichsel		
	204,274	1
Watches, windingclick for C. T. Higginbotham.		i
Water meter, piston, T. Melling	4,357 204,292	:
		:
Weather strip, D. Austin	204,124	÷
Wrench, Sievers & Winkler		:
Wringer, mop, W. Haas		i
a tinker, mob, M. trans	~~±,610	i
TRADE MARKS.		1
Baking powder, Carter Brothers & Co		i
Cigars, Foxen, Newman & Co		÷
Cigars, J. Hirsch		:
Cigars, Oliver & Robinson	. 6,150	

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:	Baking powder, Carter Brothers & Co	6,136	;
:	Cigars, Foxen, Newman & Co	6,132	2 .
:	Cigars, J. Hirsch	6,142	2
	Cigars, Oliver & Robinson	6,150	)
:	Cigars, B. F. Weyman	6,154	4
	Cigars, J. & A. Frey	6,156	; i
	Cigars, J. Martinez		
	Cigars, cigarettes, etc., Straiton & Storm		
	Cigars, cigarettes, etc., E. A. Smith	6,145	5
1	Cigars, cigarettes, etc., C. Swartz & Co		
ļ	Cigars, cigarettes, etc., I. Underdorfer	6,158	3 :
ļ	Cigarettes, Seidenberg & Co	6,135	5 .
١	Cheese, G. S. Hart		
1	Copying paper and books, W. Mann		
ļ	Cotton fabrics, Hamilton Manufacturing Company		
1	Cotton goods, Nashua Manufacturing Company		
	Dry goods, The Eddystone Manuf. Company		
	Illuminating oils, Wadsworth, Martinez & Longman		
	Knitted undershirts, etc., Dunham Hosiery Co		
:	Ladies' corsets, C. A. Griswold		
	Lemonade compound, Abrams & Carroll		
•	Liquid paint . G. W. Pitkin & Co		
:	Overalls, jumpers, etc., B. Greenebaum		
:	Perforated plasters, Holman Liver Pad Company		
	Pile ointment, G. W. Frazier		
i	Plug tobacco, B. F. Weyman		
:	Prepared skins for beer, C. Maegerlein & Son		
i	Saleratus, soda, etc., H.A.De Land & Co		
	Smoking, etc., tobacco, Marburg Brothers		
	Snuff, B. F. Weyman 6,146,		
:	Soap, Ecker & Co		
:	Weighing scales, E. & T. Fairbanks & Co	6,131	Į.
:	DESIGNS.		į
	Buckle, F. Crane	0.704	١
:	Fancy cassimere, F. S. Bosworth 10,692 to 1	0.702	, .
:	Handkerchief, J. Grimshaw		
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### English Patents Issued to Americans,

From June 28 to July 2, inclusive.

Bale tie.—S. H. Gilman, New Orleans, La. Blast furnace.—J. F. Bennett, Pittsburg, Pa. Cigarette machine.—V. L'Eplattinaire, N. Y. city. Furnace for steam boilers.—O. Marland, Boston, Mass. Grain binders.—C. H. McCormick, Chicago, Ill. Grain separators.—Barnard & Leas Manufacturing Co

Mortising chisel. - A. J. Buttler, New Brunswick, N. J. Paper making machinery.—J. H. & G. Hatch, South Meriden, Conn.

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