Business and Personal.

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.

Am. Twist Drill Co., Meredith, N. H., make Pat. Chuck Jaws, Emery Wheels, Grinders, automatic Knife Grinders. The Chester Steel Castings Co., office 407 Library St., Philadelphia, Pa., can prove by 20,000 Crank Shafts 15,000 Gear Wheels, now in use, the superiority of their Castings over all others. Circular and price list free.

Small articles in sheet or cast brass made on contract. Send models for estimates to H. C. Goodrich, 66 to 72 Ogden Place, Chicago, Ill. Mention this paper.

Pays well on small investment. - Stereopticons, Magic Lanterns, and Views illustrating every subject for public exhibitions. Lanterns for colleges, Sunday-schools, and amusement. 116 page illustrated catalogue free McAllister, Manufacturing Optician, 49 Nassau St., N. Y.

Calcium Light Apparatus and Stereopticons at low prices. C. Beseler, 218 Centre Street, New York,

Design Patent for Sale.—Handsome Hanging Vase Address Mrs. Rose L. Allen, Romolo, Centre Co., Pa. From Galveston City Railroad Co., Galveston, Sept. 22, 1882.

To H. W. Johns Mfg Co., 87 Maiden Lane, N. Y.
Gentlemen: By mail of this date I send you photograph of our Beach Pavilion on which was used your iquid Paints, and I am pleased to advise you that same have given perfect satisfaction.

Very respectfully, W. H. Sinclair, President. Paragon Drawing Paper is the only reliable. Send for samples. Keuffel & Esser, 127 Fulton St., New York. Garmore's Artificial Ear Drums for relief of partial or entire deafness. Invented by one who has been deaf thirty wears. Simple and scientific in construction; not observable in use. Send for circular. John Garmore, S. W. cor. 5th and Race Sts., Cincinnati, O.

American Fruit Drier. Free Pamphlet. See ad., p. 237 Fire Brick, Tile, and Clay Retorts, all shapes. Bornerg & O'Brien, M'f'rs, 23d St., above Race, Phila., Pa.

Drop Forgings of Iron or Steel. See adv., page 236. For best Portable Forges and Blacksmiths' Hand Blowers, address Buffalo Forge Co., Buffalo, N. Y.

Brass & Copper in sheets, wire & blanks, See ad. p. 236. The Improved Hydraulic Jacks. Punches, and Tube Expanders. R. Dudgeon, 24 Columbia St., New York. Diamond Tools. J. Dickinson, 64 Nassau St., N. Y.

Eagle Anvils, 10 cents per pound. Fully warranted Bostwick's Giant Riding Saw Machine, adv., page 238.

Tight and Slack Barrel Machinery a specialty. John ood & Co., Rochester, N. Y. See illus. adv. p. 236.

Pure Nickel Anodes, Nickel Salts, and all Polishers Supplies. Greene, Tweed & Co., New York,

For Mill Macb'y & Mill Furnishing, see illus. adv. p.236. See New American File Co.'s Advertisement, p. 238.

Renshaw's Ratchet for Square and Taper Shank Drills.

The Pratt & Whitney Co., Hartford, Conn. Woodwork'g Mach'y. Rollstone Mach. Co. Adv., p. 238. Trevor's Patent Key Seat Cutter. Trevor & Co., Lock

port. N. Y. See page 237. Wanted.-Liberal inducements and facilities for locat ing large iron works. Address Iron, Manchester, N. H.

rials. Keuffel & Esser, New York.

25" Lathes of the best design. G. A. Ohl & Co., East Newark, N. J.

50,000 Emerson's Hand Book of Saws. New Edition. Free. Address Emerson, Smith & Co., Beaver Falls, Pa. Cope & Maxwell M'I'g Co.'s Pump adv., page 220.

The Berryman Feed Water Heater and Purifier and Feed Pump. I. B. Davis' Patent. See illus. adv., p. 220. For Pat. Safety Elevators, Hoisting Engines, Friction Clutch Pulleys, Cut-off Coupling, see Frisbie's ad. p. 222. Red Jacket Adjustable Force Pump. See adv., p. 220. Mineral Lands Prospected, Artesian Wells Bored, by Pa. Diamond Drill Co. Box 423, Pottsville, Pa. See p. 220. Common Sense Dry Kiln. Adapted to drying of allmaterial where kiln. etc., drying houses are used. See p.222. 4 to 40 H. P. Steam Engines. See adv. p. 220.

Collection of Ornaments.-A book containing over 1,000 different designs, such as Crests, Coats of Arms, Vignettes, Scrolls, Corners, etc., will be mailed free on receipt of \$1. Address Palm & Fechteler, 6 West 14th Street, New York.

Drop Forgings. Billings & Spencer Co. See adv., p. 205 C. B. Rogers & Co., Norwich, Conn., Wood Working Machinery of every kind. See adv., page 205.

Lightning Screw Plates, Labor-saving Tools. p. 206. Engine, 10s to 50 horse power, complete, with governor, \$250 to \$550. Satisfaction guaranteed. Six hundred in use. For circular address Heald & Morris (Drawer lightly upon the greasy spot and allow it to soak the oil

127). Baldwinsville. N. Y. Improved Skinner Portable Engines. Erie, Pa.

Combination Roll and Rubber Co., 68 Warren street, N. Y. Wringer Rolls and Moulded Goods Specialties.

Pure Water furnished Cities, Paper Mills, Laundries, Steam Boilers, etc., by the Multifold System of the Newark Filtering Co., 177 Commerce St., Newark, N. J. Latest Improved Diamond Drills. Send for circular to M. C. Bullock Mfg. Co., 80 to 88 Market St., Chicago, Ill. First Class Engine Lathes, 20 inch swing, 8 foot bed,

now ready. F. C. & A. E. Rowland, New Haven, Conn. Ice Making Machines and Machines for Cooling Breweries, etc. Pictet Artificial Ice Co. (Limited), 142 Greenwich Street. P. O. Box 3083, New York city.

Jas. F. Hotchkiss, 84 John St., N. Y.: Send me your free book entitled "How to Keep Bollers Clean," containing useful information for steam users & engineers. (Forward above by postal or letter; mention this paper.) Steel Stamps and Pattern Letters. The best made. J. F.W.Dorman, 21 German St., Baltimore. Catalogue free. Rubber Hose, Linen Hose, lined and unlined, all

Supplement Catalogue.—Persons in pursuit of information on any special engineering mechanical, or scientific subject, can have catalogue of contents of the Sci-ENTIFIC AMERICAN SUPPLEMENT sent to them free The SUPPLEMENT contains lengthy articles embracing the whole range of engineering, mechanics, and physi cal science. Address Munn & Co., Publishers, New York.

Machinery for Light Manufacturing, on hand and built to order. E. E. Garvin & Co., 139 Center St., N. Y Wood-Working Machinery of Improved Design and Workmansbip. Cordesman, Egan & Co., Cincinnati, O. Presses & Dies. Ferracute Mach. Co., Bridgeton, N. J. ses & Dies (fruit cans) Ayar Mach. Wks., Salem, N.J.

Split Pulleys at low prices, and of same strength and

appearance as Whole Pulleys. Yocom & Son's Shafting Works, Drinker St., Philadelphia, Pa.



HINTS 'TO CORRESPONDENTS.

No attention will be paid to communications unless accompanied with the full name and address of the writer.

Namesand addresses of correspondents will not be given to inquirers.

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

Correspondents whose inquiries do not appear after a reasonable time should repeat them. If not then published, they may conclude that, for good reasons, the Editor declines them.

Persons desiring special information which is purely of a personal character, and not of general interest should remit from \$1 to \$5, according to the subject, as we cannot be expected to spend time and labor to obtain such information without remuneration.

Any numbers of the Scientific American Supplies MENT referred to in these columns may be had at this office. Price 10 cents each.

Correspondents sending samples of minerals, etc. for examination, should be careful to distinctly mark or label their specimens so as to avoid error in their identification.

(1) J. G. M. writes: 1. I have often heard said by men who run machinery (flour mills, for instance) by water power, that (as they express it) the water is heavier at night than in the daytime, and that they are obliged to let the water-gate down at night or else the machinery would run away. A. This question respecting water power has been carefully examined, and there appears to be no good ground for the assertion. 2. Blacksmiths also say that they can get a piece of iron to a welding heat quicker at night then at daytime. Will you please inform me through Notes and Queries if this is really so? A. This is also fallacious. It is an optical deception.

(2) G. C. C. writes: 1. I have a double cylinder engine, 1% inch bore, 2 inch stroke, with a steam pressure of 100 pounds, and 400 to 500 revolutions Schools open.—Send for Catalogue of Drawing Mate- per minute. How large a boat can I propel with it at speed of six to seven miles per hour? A. Hardly large enough to carry one man to run the engine and move the vessel. 2. What diameter and pitch of wheel would I require for the engine and boat? A. Larger and more pitch than the engine would drive. If your boat is small enough to get the speed it would be little more than a large toy. A boat, say 10 or 12 feet long, and 3 or 31/2 feet beam, might be driven by this engine 4½ or 5 miles per hour.

> (3) W. writes: In Scientific American, No. 43, vol. xlv., first page, Fig. 15, there is a cut of polarized bell. Will you state what size of wire should be used for magnet and what quantity, in length or weight? A. Use No. 34 silk insulated copper wire, and make the depth of the winding equal to the diameter of

> (4) J. L. W. asks: What is the name of the acid that is used in shell stores in polishing and cleaning large shells-is it silicic acid? A Hydrochloric acid diluted with water is also muchused to cleanse them.

> (5) E. McD. writes: By mistake a piece of oiled silk was placed between the leaves of a book and remained there until the oil, thick and soft, had penetrated through several of the leaves. Please inform me how the oil can be removed or hardened without effacing the print. A. Press powdered Fuller's earth out.

> (6) J. O'K. sends the following receipt for whitewash: Lime slaked with a solution of salt in water, and then properly thinned with skim milk from which all the cream has been taken, makes a permanent whitewash for outdoor work, and, it is said, renders the wood incombustible. It is an excellent wash for preserving shingles and for all farm purposes. And asks: Do you know of a better one; or, at least, can you suggest something that is good and more easily obtained than "skim milk?" A. You will find a receipt for a better and cheaper whitewash on page 52, vol. xlv.

(7) T. J. R. asks: Can you give me any information in regard to a whistle that is blown by water pressure? A. Whistles must be blown by air or steam, or any gas under pressure. Any steam whistle that is usually used with steam. Whistles made upon the same principles as organ pipes blow at very low pressures. The water jet would maintain a constant pressure, and with an easy blowing whistle would, no sizes. Greene, Tweed & Co., 118 Chambers St., New York doubt, answer your purpose. This is supposing that Countersink and bit gauge, conical, E. H. Sutton, 284,791 For Power & Economy, Alcott's Turbine, Mt.Holly, N. J. you have considerable head of water and plenty of it; Countersink plug, I. Sharp. 284,776 Presses. Dies. Tools for working Sheet Metals, etc., and may be made by setting up a long pipe perpendicu-

water to separate from it; and from the bottom of the box raise a siphon pipe three or four feet high to carry off the water and maintain the pressure. Into the top of the main pipe throw a jet of water as strong as possible. This jet carries the air down the tube under considerable pressure, and with everything properly proportioned will furnishfrom the chamber sufficient air to blow a whistle.

[OFFICIAL.]

INDEX OF INVENTIONS

FOR WHICE

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

September 19, 1882.

AND EACH BEARING THAT DATE.

[Those marked (r) are reissued patents.]

A printed copy of the specification and drawing of any patent in the annexed list, also of any patent issued since 1866, will be furnished from this office for 25 cents. In ordering please state the number and date of the patent desired and remit to Munn & Co., 261 Broadway, corner of Warren Street, New York city. We also furnish copies of patents granted prior to 1866 but at increased cost, as the specifications not being printed, must be copied by hand.

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Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson. Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, J. Bills. Buckle and rein ring. neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. A. McFarlane. Candlestick and loading tool combined, miner's, C. P. Des Moineaux Car brake, F. W. Strehlan	264,685 264,505 264,724 264,496 264,480 264,826 264,613 264,713 264,581 264,581 264,689 264,820 264,820 264,820 264,821 264,520 264,818 264,520 264,818 264,520 264,818 264,520
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, J. Bills. Buckle, J. Bills. Buckle, and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Button fastener, G. W. Prentice. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can	264,685 264,724 264,496 264,480 264,613 264,713 264,619 264,881 264,520 264,521 264,521 264,521 264,518 264,618 264,636 264,636 264,636 264,636 264,636 264,636 264,636 264,636 264,636 264,636 264,636
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, J. Bills. Buckle and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Button fastener, G. W. Prentice. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. E. Brock. Can opener, W. A. McFarlane. Car delestick and loading tool combined, miner's, C. P. Des Moineaux Car brake, F. W. Strehlan Car brake, electrical, Paul & Kampfe. Car coupling, J. Coup.	264,685 264,724 264,496 264,490 264,490 264,613 264,713 264,619 264,826 264,620 264,826 264,845 264,520 264,818 264,520 264,845 264,526 264,856 264,527 264,844
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson. Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, J. Bills. Buckle and rein ring. neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. A. McFarlane. Candlestick and loading tool combined, miner's, C. P. Des Moineaux Carbrake, F. W. Strehlan Car brake, electrical, Paul & Kampfe. Car coupling, W. J. Dawson.	264,685 264,724 264,496 264,430 264,613 264,713 264,513 264,513 264,521 264,521 264,521 264,521 264,521 264,521 264,521 264,521 264,545 264,549 264,549 264,549 264,582 264,475 264,412 264,412 264,412 264,582 264,412 264,582 264,412 264,412 264,412 264,412
Breast strap slide and hook, C. R. Furey Bricks and tiles, ornamentation of, J. C. Anderson. Bridge, J. Maish Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding Brush, tooth, L. Chevallier Buckle, J. Bills Buckle, J. Bills Buckle, and rein ring, neck strap, E. G. Latta Buckle, harness, J. T. Stoll Bush, roller, P. Brownley Button fastener, C. Erlanger Button fastener, G. W. Prentice Button fastener, G. W. Prentice Button fastener, W. E. Brock Can opener, W. E. Brock Car brake, electrical, Paul & Kampfe Car brake, electrical, Paul & Kampfe Car coupling, J. Coup Car coupling, W. J. Dawson Car cupling, W. J. Dawson Car coupling, H. Menzemer	264,685 264,724 264,496 264,826 264,613 264,511 264,619 264,619 264,818 264,520 264,818 264,549 264,64,549 264,686 264,582 264,549 264,686 264,582 264,475 264,483
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, J. Bills. Buckle, J. Bills. Buckle, and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin Button fastener, C. Erlanger. Button fastener, G. W. Prentice. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. E. Brock. Can opener, W. A. McFarlane. Candlestick and loading tool combined, miner's, C. P. Des Moineaux Car brake, electrical, Paul & Kampfe. Car coupling, J. Coup. Car coupling, W. J. Dawson Car coupling, W. J. Dawson Car coupling, F. P. Stebbins.	264,685 264,724 264,496 264,496 264,826 264,613 264,581 264,619 264,886 264,520 264,818 264,549 264,868 264,549 264,686 264,562 264,484 264,634 264,634 264,634 264,784
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson. Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, J. Bills. Buckle and rein ring, neck strap, E. G. Latta. Buckle, J. Bills. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button, fastener, C. Erlanger. Button fastener, C. Erlanger. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. A. McFarlane. Cardestick and loading tool combined, miner's, C. P. Des Moineaux Car brake, F. W. Strehlan Car brake, electrical, Paul & Kampfe. Car coupling, J. Coup. Car coupling, W. J. Dawson Car coupling, H. Menzemer. Car, hand, G. S. Sheffield.	264,685 264,724 264,496 264,496 264,613 264,713 264,581 264,619 264,832 264,521 264,751 264,521 264,521 264,754 264,754 264,754 264,754 264,754 264,754 264,481
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson. Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, J. Bills. Buckle and rein ring, neck strap, E. G. Latta. Buckle, J. Bills. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button, fastener, C. Erlanger. Button fastener, C. Erlanger. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. A. McFarlane. Cardestick and loading tool combined, miner's, C. P. Des Moineaux Car brake, F. W. Strehlan Car brake, electrical, Paul & Kampfe. Car coupling, J. Coup. Car coupling, W. J. Dawson Car coupling, H. Menzemer. Car, hand, G. S. Sheffield.	264,685 264,724 264,496 264,496 264,613 264,713 264,581 264,619 264,832 264,521 264,751 264,521 264,521 264,754 264,754 264,754 264,754 264,754 264,754 264,481
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson. Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, J. Bills. Buckle and rein ring. neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. A. McFarlane. Candlestick and loading tool combined, miner's, C. P. Des Moineaux Car brake, electrical, Paul & Kampfe. Car coupling, W. J. Dawson Car coupling, W. J. Dawson Car coupling, W. J. Dawson Car, hand, G. S. Sheffield. Car, railway wrecking, R. Hitchcock	264,685 264,724 264,496 264,490 264,613 264,613 264,613 264,619 264,838 264,521 264,521 264,521 264,549 264,752 264,475 264,753 264,778 264,784 264,784 264,784 264,784 264,784
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, J. Bills. Buckle, J. Bills. Buckle, and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin Button fastener, C. Erlanger. Button fastener, G. W. Prentice. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. E. Brock. Can opener, W. E. Brock. Candlestick and loading tool combined, miner's, C. P. Des Moineaux Car brake, F. W. Strehlan Car brake, electrical, Paul & Kampfe. Car coupling, J. Coup. Car coupling, J. Dawson Car coupling, F. P. Stebbins. Car, hand, G. S. Sheffield. Car, railway wrecking, R. Hitchcock Car, sieeping, W. H. Wigmore.	264,685 264,505 264,724 264,496 264,496 264,826 264,613 264,581 264,619 264,886 264,520 264,818 264,549 264,866 264,582 264,686 264,582 264,684 264,684 264,684 264,684 264,684 264,684 264,684 264,684 264,8882 264,784 264,881
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson. Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash. Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, J. Bills. Buckle and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Button fastener, C. W. Prentice. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts	264,685 264,724 264,496 264,496 264,496 264,619 264,619 264,619 264,842 264,521 264,636 264,549 264,549 264,549 264,549 264,636 264,549 264,636 264,63
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson. Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, J. Bills. Buckle and rein ring. neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erianger. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. A. McFarlane. Candlestick and loading tool combined, miner's, C. P. Des Moineaux Car brake, F. W. Strehlan Car brake, electrical, Paul & Kampfe. Car coupling, W. J. Dawson Car coupling, W. J. Dawson Car coupling, F. P. Stebbins. Car, hand, G. S. Sheffield. Car, railway wrecking. R. Hitchcock Car, sleeping, W. H. Wigmore. Car car, eleping and transfer, L. D. Richardson et al. Carriage top brace, C. E. Glebel.	264,685 264,724 264,496 264,490 264,613 264,613 264,613 264,619 264,824 264,624 264,619 264,836 264,521 264,842 264,521 264,842 264,752 264,475 264,475 264,475 264,478 264,783 264,784 264,783 264,784 264,784 264,784
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier Buckle, J. Bills. Buckle, J. Bills. Buckle and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Button fastener, G. W. Prentice. Button fastener, G. W. Prentice. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. E. Brock. Can opener, W. A. McFarlane. Car brake, electrical, Paul & Kampfe. Car coupling, J. Coup. Car coupling, H. Menzemer. Car coupling, H. Menzemer. Car, railway wrecking, R. Hitchcock Car, saleping, W. H. Wigmore. Car, weighing and transfer, L. D. Richardson & A. Carlage top brace, C. E. Glebel.	264,685 264,505 264,724 264,496 264,826 264,613 264,613 264,613 264,613 264,613 264,613 264,613 264,613 264,520 264,840 264,645 264,549 264,636
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, J. Bills. Buckle and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Button fastener, G. W. Prentice. Button fastener, G. W. Prentice. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. E. Brock. Can opener, W. E. W. Strehlan. Car brake, electrical, Paul & Kampfe. Car coupling, J. Coup. Car coupling, W. J. Dawson Car coupling, W. J. Dawson Car, sleeping, W. H. Menzemer. Car, sleeping, W. H. Wigmore. Car, weighing and transfer, L. D. Richardson et al. Carriage top standard, C. C. Egerton. Cart, dumping, J. H. Ferguson.	264,685 264,505 264,724 264,496 264,826 264,613 264,613 264,613 264,613 264,613 264,613 264,613 264,613 264,520 264,840 264,645 264,549 264,636
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson. Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, J. Bills. Buckle and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. A. McFarlane. Candlestick and loading tool combined, miner's, C. P. Des Moineaux Car brake, F. W. Strehlan Car brake, F. W. Strehlan Car coupling, J. Coup. Car coupling, W. J. Dawson Car coupling, W. J. Dawson Car coupling, F. P. Stebbins. Car, hand, G. S. Sheffield. Car, railway wrecking, R. Hitchcock Car, sieeping, W. H. Wigmore. Car, weighing and transfer, L. D. Richardson & A. Carriage top brace, C. E. Glebel. Carriage top standard, C. C. Egerton. Case. See Organ case. Watch-case.	264,685 264,724 264,496 264,496 264,613 264,613 264,613 264,581 264,521 264,521 264,783 264,784 264,784 264,481 264,636 264,783 264,784 264,481 264,636 264,783 264,783 264,783 264,783 264,783
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, J. Bills. Buckle and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Button fastener, G. W. Prentice. Button fastener, G. W. Prentice. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. E. Brock. Can opener, W. E. W. Strehlan. Car brake, electrical, Paul & Kampfe. Car coupling, J. Coup. Car coupling, W. J. Dawson Car coupling, W. J. Dawson Car, sleeping, W. H. Menzemer. Car, sleeping, W. H. Wigmore. Car, weighing and transfer, L. D. Richardson et al. Carriage top standard, C. C. Egerton. Cart, dumping, J. H. Ferguson.	264,685 264,724 264,496 264,496 264,613 264,613 264,613 264,581 264,521 264,521 264,783 264,784 264,784 264,481 264,636 264,783 264,784 264,481 264,636 264,783 264,783 264,783 264,783 264,783
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier Buckle, J. Bills. Buckle and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Button fastener, G. W. Prentice. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. E. Brock. Can opener, W. E. Brock. Carbrake, F. W. Strehlan Car brake, electrical, Paul & Kampfe. Car coupling, J. Coup. Car coupling, W. J. Dawson Car car, railway wrecking, R. Hitchcock Car, railway wrecking, R. Hitchcock Car, seleping, W. H. Wigmore. Car, weighing and transfer, L. D. Richardson & al. Carliage top brace, C. E. Glebel. Carriage top standard, C. C. Egerton. Case. See Organ case. Watch-case. Cattle fastening and releasing device, J. D. Wat-	264,685 264,724 264,496 264,826 264,613 264,613 264,613 264,613 264,613 264,613 264,619 264,826 264,826 264,826 264,836 264,549 264,636 264,636 264,636 264,637 264,637 264,637
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, J. Bills. Buckle and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Button fastener, G. W. Prentice. Button fastener, G. W. Prentice. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. E. Brock. Can opener, W. E. W. Strehlan. Car brake, F. W. Strehlan Car brake, electrical, Paul & Kampfe. Car coupling, J. Coup. Car coupling, W. J. Dawson Car coupling, F. P. Stebbins. Car, hand, G. S. Sheffield. Car, railway wrecking, R. Hitchcock Car, sleeping, W. H. Wigmore. Car, weighing and transfer, L. D. Richardson et al. Carriage top brace, C. E. Glebel. Carriage top standard, C. C. Ekerton. Cart, dumping, J. H. Ferguson. Case. See Organ case. Watch-case. Cattle fastening and releasing device, J. D. Watters.	264,685 264,724 264,496 264,496 264,826 264,613 264,613 264,619 264,836 264,624 264,619 264,842 264,626 264,521 264,521 264,521 264,526 264,818 264,526 264,818 264,526 264,475 264,481 264,636 264,784 264,634 264,784 264,634 264,634 264,636 264,784 264,636 264,784 264,636
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier Buckle, J. Bills. Buckle and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erianger. Button fastener, C. Erianger. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. E. Brock. Can opener, W. A. McFarlane. Cardestick and loading tool combined, miner's, C. P. Des Moineaux Car brake, F. W. Strehlan Car brake, electrical, Paul & Kampfe. Car coupling, W. J. Dawson Car coupling, W. J. Dawson Car coupling, F. P. Stebbins. Car, hand, G. S. Sheffield. Car, railway wrecking, R. Hitchcock Car, seeping, W. H. Wigmore. Car, weighing and transfer, L. D. Richardson & al. Carriage top brace, C. E. Glebel. Carriage top standard, C. C. Egerton. Case. See Organ case. Watch-case. Cattle fastening and releasing device, J. D. Watters. Chain, carrier, P. F. Hodges.	264,685 264,724 264,496 264,496 264,826 264,613 264,613 264,619 264,836 264,624 264,619 264,842 264,626 264,521 264,521 264,521 264,526 264,818 264,526 264,818 264,526 264,475 264,481 264,636 264,784 264,634 264,784 264,634 264,634 264,636 264,784 264,636 264,784 264,636
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier Buckle, J. Bills. Buckle and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Button fastener, G. W. Prentice. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Car brake, electrical, Paul & Kampfe. Car coupling, J. Coup. Car coupling, W. J. Dawson. Car coupling, W. J. Dawson. Car coupling, F. P. Stebbins. Car, railway wrecking, R. Hitchcock Car, sleeping, W. H. Wigmore. Carriage top brace, C. E. Glebel. Carriage top standard, C. C. Egerton. Case. See Organ case. Watch-case. Cattle fastening and releasing device, J. D. Watters. Chain, carrier, P. F. Hodges. Chair, See Invalid recilining chair.	264,685 264,505 264,724 264,496 264,496 264,826 264,613 264,581 264,613 264,581 264,613 264,581 264,520 264,818 264,520 264,818 264,549 264,836 264,549 264,836 264,784 264,481 264,784 264,481 264,784 264,686 264,686 264,686 264,686 264,686 264,686 264,686 264,686 264,686 264,686 264,686 264,686 264,686 264,686 264,686 264,686 264,686 264,880 264,688
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, J. Bills. Buckle, J. Bills. Buckle, and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Button fastener, G. W. Prentice. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. E. Brock. Candlestick and loading tool combined, miner's, C. P. Des Moineaux Carbrake, F. W. Strehlan Car brake, electrical, Paul & Kampfe. Car coupling, W. J. Dawson Car coupling, W. J. Dawson Car coupling, H. Menzemer. Car coupling, H. Menzemer. Car, railway wrecking. R. Hitchcock Car, sleeping, W. H. Wigmore. Car, weighing and transfer, L. D. Richardson et al. Carriage top standard, C. C. Egerton. Cart, dumping, J. H. Ferguson. Caste fastening and releasing device, J. D. Watters. Chair. See Invalid reclining chair. Charts, projection of, E. R. Knorr.	264,685 264,505 264,724 264,496 264,496 264,826 264,613 264,581 264,619 264,886 264,520 264,818 264,520 264,818 264,526 264,818 264,526 264,818 264,527 264,818 264,527 264,634 264,634 264,634 264,634 264,634 264,634 264,634 264,634 264,634 264,634 264,636 264,636 264,636 264,636 264,636 264,636 264,636 264,636 264,636 264,636 264,636 264,636 264,636 264,638 264,788 264,830 264,638 264,789 264,679
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, J. Bills. Buckle and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Button fastener, C. W. Prentice. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts	264,685 264,505 264,724 264,496 264,496 264,826 264,613 264,613 264,613 264,521 264,842 264,521 264,842 264,521 264,842 264,752 264,636 264,638 264,638 264,638 264,638 264,638 264,638 264,638 264,638 264,638 264,638 264,638 264,638 264,638 264,638 264,638
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier Buckle, J. Bills. Buckle and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Button fastener, G. W. Prentice. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. E. Brock. Can opener, W. E. Brock. Can opener, W. E. Strehlan Car brake, F. W. Strehlan Car brake, electrical, Paul & Kampfe. Car coupling, J. Coup. Car coupling, W. J. Dawson Car coupling, H. Menzemer. Car, hand, G. S. Sheffield. Car, railway wrecking, R. Hitchcock Car, sleeping, W. H. Wigmore. Car, weighing and transfer, L. D. Richardson et al. Carriage top standard, C. C. Egerton. Case. See Organ case. Watch-case. Cattle fastening and releasing device, J. D. Watch. Chain, carrier, P. F. Hodges Chair. See Invalid reclining chair. Churn, B. F. Aldridge. Churn, Dower, J. Wibber.	264,685 264,724 264,496 264,496 264,826 264,613 264,513 264,513 264,512 264,613 264,613 264,520 264,818 264,520 264,818 264,549 264,682 264,475 264,481 264,784 264,785 264,784 264,784 264,784 264,784 264,784 264,784 264,785 264,785 264,807
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, J. Bills. Buckle and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Button fastener, C. W. Prentice. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts	264,685 264,724 264,496 264,496 264,826 264,613 264,513 264,513 264,512 264,613 264,613 264,520 264,818 264,520 264,818 264,549 264,682 264,475 264,481 264,784 264,785 264,784 264,784 264,784 264,784 264,784 264,784 264,785 264,785 264,807
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier Buckle, J. Bills. Buckle and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Button fastener, G. W. Prentice. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. E. Brock. Can opener, W. E. Brock. Can opener, W. E. Strehlan Car brake, F. W. Strehlan Car brake, electrical, Paul & Kampfe. Car coupling, J. Coup. Car coupling, W. J. Dawson Car coupling, H. Menzemer. Car, hand, G. S. Sheffield. Car, railway wrecking, R. Hitchcock Car, sleeping, W. H. Wigmore. Car, weighing and transfer, L. D. Richardson et al. Carriage top standard, C. C. Egerton. Case. See Organ case. Watch-case. Cattle fastening and releasing device, J. D. Watch. Chain, carrier, P. F. Hodges Chair. See Invalid reclining chair. Churn, B. F. Aldridge. Churn, Dower, J. Wibber.	264,685 264,505 264,724 264,496 264,496 264,826 264,613 264,581 264,613 264,581 264,619 264,826 264,826 264,826 264,523 264,836 264,549 264,636 264,638 264,638 264,638 264,638 264,638 264,638 264,638 264,638
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, J. Bills. Buckle and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Button fastener, G. W. Prentice. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts	264,685 264,505 264,724 264,496 264,496 264,826 264,613 264,581 264,613 264,581 264,619 264,826 264,826 264,826 264,523 264,836 264,549 264,636 264,638 264,638 264,638 264,638 264,638 264,638 264,638 264,638
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier Buckle, J. Bills. Buckle and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Button fastener, C. W. Prentice. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts	264,685 264,505 264,724 264,496 264,496 264,826 264,613 264,581 264,613 264,581 264,619 264,826 264,826 264,826 264,523 264,836 264,549 264,636 264,638 264,638 264,638 264,638 264,638 264,638 264,638 264,638 264,638 264,638
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier Buckle, J. Bills. Buckle, J. Bills. Buckle, and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Button fastener, G. W. Prentice. Buttonnoles, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. E. Brock. Can opener, W. E. Brock. Car brake, F. W. Strehlan Car brake, electrical, Paul & Kampfe. Car coupling, J. Coup. Car coupling, W. J. Dawson Car car, pand, G. S. Sheffield. Car, railway wrecking, R. Hitchcock Car, sleeping, W. H. Wigmore. Car, weighing and transfer, L. D. Richardson & al. Carriage top brace, C. E. Glebel. Carriage top standard, C. C. Egerton. Case. See Organ case. Watch-case. Cattle fastening and releasing device, J. D. Watters. Chair, See Invalid reclining chair. Charts, projection of, E. R. Knorr. Churn, B. F. Aldridge. Churn power, J. Wilber. Chute, log, W. H. Barnum. Cigar lighter, G. Selden (r). Cleaner. See Boiler cleaner. Slate or blackboard cleaner.	264,685 264,505 264,724 264,496 264,496 264,826 264,613 264,581 264,613 264,613 264,613 264,613 264,613 264,840 264,840 264,840 264,840 264,840 264,848 264,549 264,636 264,847 264,636 264,648 264,476 264,636 264,679 264,679 264,679 264,679 264,679 264,679 264,607 10,200
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, J. Bills. Buckle, J. Bills. Buckle, and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Button fastener, G. W. Prentice. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. E. Brock. Can opener, W. E. Brock. Candlestick and loading tool combined, miner's, C. P. Des Moineaux Carbrake, F. W. Strehlan Car brake, electrical, Paul & Kampfe. Car coupling, J. Coup. Car coupling, W. J. Dawson Car coupling, F. P. Stebbins. Car, hand, G. S. Sheffield. Car, railway wrecking. R. Hitchcock Car, sleeping, W. H. Wigmore. Car, weighing and transfer, L. D. Richardson et al. Carriage top brace, C. E. Glebel. Carriage top standard, C. C. Esperton. Cart, dumping, J. H. Ferguson. Case. See Organ case. Watch-case. Cattle fastening and releasing device, J. D. Watters. Chair. See Invalid reclining chair. Charts, projection of, E. R. Knorr. Churn, B. F. Aldridge. Churn power, J. Wilber. Chure, log, W. H. Barnum. Cigar lighter, G. Selden (r). Cleaner. See Boiler cleaner. Slate or blackboard cleaner.	264,685 264,505 264,724 264,496 264,496 264,826 264,613 264,581 264,619 264,882 264,619 264,884 264,520 264,818 264,520 264,818 264,520 264,818 264,520 264,818 264,520 264,818 264,520 264,481 264,634 264,634 264,634 264,634 264,634 264,634 264,634 264,636 264,679 264,679 264,679 264,679 264,679 264,804 264,679 264,679
Breast strap slide and hook, C. R. Furey. Bricks and tiles, ornamentation of, J. C. Anderson Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier Buckle, J. Bills. Buckle, J. Bills. Buckle, and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Button fastener, G. W. Prentice. Buttonnoles, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. E. Brock. Can opener, W. E. Brock. Car brake, F. W. Strehlan Car brake, electrical, Paul & Kampfe. Car coupling, J. Coup. Car coupling, W. J. Dawson Car car, pand, G. S. Sheffield. Car, railway wrecking, R. Hitchcock Car, sleeping, W. H. Wigmore. Car, weighing and transfer, L. D. Richardson & al. Carriage top brace, C. E. Glebel. Carriage top standard, C. C. Egerton. Case. See Organ case. Watch-case. Cattle fastening and releasing device, J. D. Watters. Chair, See Invalid reclining chair. Charts, projection of, E. R. Knorr. Churn, B. F. Aldridge. Churn power, J. Wilber. Chute, log, W. H. Barnum. Cigar lighter, G. Selden (r). Cleaner. See Boiler cleaner. Slate or blackboard cleaner.	264,685 264,505 264,724 264,496 264,496 264,826 264,613 264,619 264,818 264,520 264,842 264,521 264,636 264,521 264,636

House. See Milk house.

.... 264.703

 Inkstand, G. H. Henkel
 264.695

 Inkstand, Royce & Hafner
 264.768

Inkstand, Royce & Hafner. 264,768
Instrument for treating piles, W. Wöltge...... 264,813

Crank and crank fastening, F. F. Adams	
Cream, artificial, Cooley & Burrell	264.516
Culinary boiler, L. McLellan (r)	10,199 264.545
Cultivator, J. J. Morris	
Cutter. See Fodder cutter. Oatmeal cutter.	
Cutting and punching press, Stevenson & Plunkett	
Dental plugger, G. Rehfuss et al	264,756
Desk, A. F. Potts	264,747
Digger. See Potato digger.	064 740
Disintegrating machine, fodder, W. A. Naylor Disintegrating machine, grass, W. A. Naylor	264,739
Display stand, A. F. Pott Door check, elastic, H. H. Burrill	264,751 264 488
Door plate, letter box, and bell pull, combined, C.	•
H. Parmenter Draught equalizer, D. M. Harkrader	264,691
Drawer pull, G. W. Tucker (r)	10,201
Electric circuit cut-out, R. J. Sheehy	264,777
Electric distribution and translation system, T. A. Edison	
Electric lights and conductors, support for, G. H.	
Allen Electric machine, dynamo, E. W. Siemens	
Electric machine, dynamo or magneto, T. A. Edi-	
son	
son264,658 to	264,673
Electric wire cables, conduit for underground, J. Mackintosh	
Electricity, system of conductors for the distribu- tion of, T. A. Edison	
Elevator. See Automatic elevator. Cotton ele-	404 ₁ 040
vator.	064 845
Elevator, G. R. Peare Engine. See Pumping engine. Rotary engine.	204,140
Wind engine. Evaporating saccharine juices, apparatus used	
in, C. C. Haynes	
Byaporator. See Salt evaporator. Eye wash, W. C. Squier	264.783
Fare register, E. Chesterman	264,440
Faucet, J. H. Seabury	
Feathers for dusters, etc., method of and machine	
for preparing, C. W. & E. T. Nichols Feeding water to locomotive boilers, W. H. Tur-	
rentine	264,494
Fence barb, wire, F. W. Brainerd	
Fence palings, machine for barbing, W. H. H.	
Frye Fence post, Ambrose & Cole	264,504
Fence wire with metal, process of and apparatus for coating barbed, E. H. Hill	
Fences, machine for manufacturing, W. H. H.	
FryeFigures in relief on various substances, produc-	
tion of, M. W. Samuel	264.771
Filter and cooler, combined water, T. V. Curtis Filtering and purifyingwater in wells, G. Koep-	264,443
pel	264.463
Titeatin, breech-loading, J. Machaughton	204.120
Firearm, breech-loading, W. Mason	
Firearm, breech-loading, Scott & Baker	264,772
Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton	264,772 264,827 264,834
Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter	264,772 264,827 264,834 264,680
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner	264,772 264,827 264,834 264,680 264,611 264,800
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner Foll wrapper, rolled, H. S. Crooke (r)	264,772 264,827 264,834 264,680 264,611 264,800 10,202
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton. Flour bolt or dresser, L. B. Fiechter. Flute, T. Berteling. Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace.	264,772 264,827 264,834 264,680 264,611 264,800 10,202
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter. Flute, T. Berteling. Fodder cutter, E. Wagoner. Foil wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday	264,772 264,827 264,834 264,680 264,611 264,800 10,202 264,823
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter. Flute, T. Berteling. Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton	264,772 264,827 264,834 264,680 264,611 264,800 10,202 264,823
Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment	264,772 264,827 264,834 264,680 264,611 264,800 10,202 264,823 264,510 264,758
Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour boit or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner Foil wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boiler furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing, O. Bolton Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W.	264,772 264,834 264,680 264,680 10,202 264,838 264,838 264,853 264,510 264,758 264,453
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boiler furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufac-	264,772 264,827 264,834 264,680 264,611 264,800 10,202 264,823 264,510 264,758 264,453 264,640
Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing, O. Bolton Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufacture of coal, Wallace & Claus	264,772 264,827 264,834 264,680 264,611 264,800 10,202 264,823 264,510 264,758 264,453 264,640 264,801
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boiler furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. E. Little	264,772 264,827 264,834 264,680 264,611 264,800 10,202 264,803 264,823 264,823 264,833 264,453 264,453 264,453 264,453 264,453
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter. Flute, T. Berteling. Fodder cutter, E. Wagoner. Foil wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing, O. Bolton Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee. Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker	264,772 264,827 264,834 264,680 264,611 264,800 10,202 264,803 264,823 264,823 264,833 264,453 264,453 264,453 264,453 264,453
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boiler furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton. Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. M. Decker Generator. See Steam generator. Glass, guide for ruling or for aiding in cutting, W.	264,772 264,827 264,827 264,880 264,611 264,800 10,202 264,823 264,823 264,510 264,758 264,640 264,835 264,640 264,835 264,428
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour boit or dresser, L. B. Fiechter Flute, T. Berteling. Fodder cutter, E. Wagoner Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. E. Little Gearing, C. E. Albro Generator. See Steam generator. Glass, guide for ruling or for aiding in cutting, W. Wheeler Glue, etc., heater, S. Willershausen	264,772 264,827 264,834 264,680 264,611 264,802 264,612 264,823 264,823 264,640 264,758 264,453 264,640 264,635 264,428 264,428
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boiler furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton. Furniture, G. F. Richardson Gas burning device, F. W. Gordon. Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. E. Little. Gearing, C. E. Albro Generator. See Steam generator. Glass, guide for ruling or for aiding in cutting, W. Wheeler Glue, etc., heater, S. Willershausen Grain binder, J. F. Appleby	264,772 264,827 264,834 264,680 264,611 264,801 264,823 264,823 264,823 264,823 264,823 264,453 264,453 264,401 264,835 264,428 264,428
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday. Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. E. Little Gearing, C. E. Albro Generator. See Steam generator. Glas, guide for ruling or for aiding in cutting, W. Wheeler Glash, the product of the produ	264,772 264,827 264,834 264,680 264,611 264,800 10,202 264,823 264,812 264,758 264,640 264,630 264,640 264,438 264,449 264,498 264,498 264,498 264,499 264,602 264,707
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton. Furniture, G. F. Richardson Gas burning device, F. W. Gordon. Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. E. Little Gearing, C. E. Albro Generator. See Steam generator. Glass, guide for ruling or for aiding in cutting, W. Wheeler Glue, etc., heater, S. Willershausen. Grain binder, J. F. Appleby Grain binder attachment, Kemp & Ross. Grain cleaning apparatus, D. Best Grain separator, J. B. Suitt	264,772 264,827 264,834 264,680 264,611 264,800 10,202 264,823 264,510 264,758 264,453 264,640 264,635 264,448 264,428 264,428
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling. Fodder cutter, E. Wagoner Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. E. Little Gearing, C. E. Albro Generator. See Steam generator. Glas, guide for ruling or for aiding in cutting, W. Wheeler Glue, etc., heater, S. Willershausen. Grain binder, J. F. Appleby Grain separator, J. B. Sultt. Grain separator, J. B. Sultt. Grain separator and cleaner, D. Best Grain separator and cleaner, D. Best Grate attachment, J. J. Mitchell	264,772 264,827 264,880 264,611 264,800 10,202 264,823 264,610 264,758 264,464 264,610 264,6301 264,6301 264,640 264,640 264,601 264,6308 264,608 264,608 264,608 264,608 264,508 264,508 264,508 264,508 264,508 264,508 264,508 264,508 264,508 264,508 264,508 264,508 264,508 264,508 264,508
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boiler furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton. Furniture, G. F. Richardson Gas burning device, F. W. Gordon. Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. E. Little Gearing, C. E. Albro Generator. See Steam generator. Glass, guide for ruling or for aiding in cutting, W. Wheeler Grain binder, J. F. Appleby Grain binder, J. F. Appleby Grain binder attachment, Kemp & Ross Grain separator, J. B. Suitt Grain separator, J. B. Suitt Grain separator, J. J. Mitchell Grinding mill, J. E. Holmes	264,772 264,827 264,827 264,880 264,611 264,800 10,202 264,823 264,510 264,758 264,453 264,453 264,453 264,402 264,602 264,707 264,602 264,602 264,602 264,602 264,602 264,603
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton. Flour bolt or dresser, L. B. Fiechter. Flute, T. Berteling. Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boiler furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton. Furniture, G. F. Richardson. Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee. Gas, utilization of by-products in the manufacture of coal, Wallace & Claus. Gate, J. M. Decker. Gate, J. E. Little. Gearing, C. E. Albro. Generator. See Steam generator. Glue, etc., heater, S. Willershausen. Grain binder, J. F. Appleby. Grain binder attachment, Kemp & Ross. Grain cleaning apparatus, D. Best. Grain separator, J. B. Suitt. Grain separator and cleaner, D. Best. Grain separator and cleaner, D. Best. Grain separator and cleaner, D. Best. Grainding mills, test plate for roller, W. D. Gray. Giycerine from the residuary waters resulting	264,772 264,827 264,827 264,880 264,611 264,800 10,202 264,823 264,510 264,758 264,453 264,460 264,801 264,499 264,498 264,498 264,499 264,508 264,707 264,608 264,509 264,509 264,509 264,454
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday. Furnace. See Boiler furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas burning device, F. W. Gordon Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. E. Little Gearing, C. E. Albro Generator. See Steam generator. Glue, etc., heater, S. Willershausen Grain binder, J. F. Appleby Grain binder attachment, Kemp & Ross Grain cleaning apparatus, D. Best Grain separator, J. B. Suitt Grain separator and cleaner, D. Best Grain separator and cleaner, D. Best Grinding mill, J. E. Holmes Grinding mills, test plate for roller, W. D. Gray	264,772 264,827 264,680 264,611 264,800 10,202 264,823 264,610 264,758 264,453 264,640 264,635 264,458 264,428 264,499 264,508 264,600 264,508 264,600 264,508 264,409 264,508 264,409 264,508 264,409 264,508 264,409 264,508
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday. Furnace. See Boiler furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas burning device, F. W. Gordon Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. E. Little Generator. See Steam generator. Glue, etc., heater, S. Willershausen Grain binder, J. F. Appleby Grain binder, J. F. Appleby Grain separator, J. B. Suitt Grain separator and cleaner, D. Best Grain separator and cleaner, D. Best Grainding mill, J. E. Holmes. Grinding mill, J. E. Holmes. Grinding mills, test plate for roller, W. D. Gray Glycerine from the residuary waters resulting from the manufacture of soaps, extraction of E. L. M. Brocbon	264,772 264,827 264,827 264,860 264,611 264,800 10,202 264,823 264,823 264,635 264,6463 264,6463 264,640 264,499 264,902 264,503 264,608 264,608 264,609 264,508 264,609 264,508 264,609 264,508 264,609 264,508 264,609 264,508 264,609 264,508 264,609 264,508 264,608 264,509 264,508 264,509 264,508 264,509 264,508
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boiler furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton. Furniture, G. F. Richardson Gas burning device, F. W. Gordon. Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. M. Decker Gate, J. E. Little Gearing, C. E. Albro Generator. See Steam generator. Glass, guide for ruling or for aiding in cutting, W. Wheeler Grain binder, J. F. Appleby Grain binder attachment, Kemp & Ross. Grain cleaning apparatus, D. Best Grain separator, J. B. Sultt Grain separator and cleaner, D. Best Grain separator and cleaner, D. Best Grain separator and cleaner, D. Best Grinding mill, J. E. Holmes. Grinding mills, test plate for roller, W. D. Gray Glycerine from the residuary waters resulting from the manufacture of soaps, extraction of E. L. M. Brocbon Hammer, J. G. Eberhard Hammer, power, A. Beaudry	264,772 264,827 264,827 264,880 264,611 264,800 10,202 264,823 264,823 264,810 264,758 264,640 264,801 264,835 264,449 264,836 264,428 264,499 264,602 264,707 264,608 264,602 264,707 264,608 264,609 264,509 264,509 264,509 264,509 264,509 264,616 264,519 264,616 264,519 264,616
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas burning device, F. W. Gordon Gas utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. E. Little Gearing, C. E. Albro Generator. See Steam generator. Glue, etc., heater, S. Willershausen Grain binder, J. F. Appleby Grain binder attachment, Kemp & Ross Grain separator, J. B. Sultt Grain separator, J. B. Sultt Grain separator and cleaner, D. Best Grain separator and cleaner, D. Best Grinding mill, J. E. Holmes. Grinding mills, test plate for roller, W. D. Gray Glycerine from the residuary waters resulting from the manufacture of soaps, extraction of E. L. M. Brocbon Hame, J. G. Eberhard Hammer and screwdriver, claw, J. A. 'Thayer	264,772 264,827 264,827 264,880 264,611 264,800 10,202 264,823 264,812 264,813 264,813 264,814 264,811 264,492 264,492 264,493 264,608 264,499 264,508 264,499 264,508 264,499 264,508 264,499 264,508 264,499 264,510
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner. Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton. Furniture, G. F. Richardson Gas burning device, F. W. Gordon. Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. E. Little Gearing, C. E. Albro Generator. See Steam generator. Glass, guide for ruling or for aiding in cutting, W. Wheeler Grain binder, J. F. Appleby Grain binder, J. F. Appleby Grain binder attachment, Kemp & Ross. Grain separator, J. B. Sultt Grain separator and cleaner, D. Best Grate attachment, J. J. Mitchell Grinding mill, J. E. Holmes Grinding mills, test plate for roller, W. D. Gray Glycerine from the residuary waters resulting from the manufacture of soaps, extraction of E. L. M. Brocbon Hammer, power, A. Beaudry Handle. See Plate and dish handle. Rubber covered handle. Rubber handle.	264,772 264,827 264,827 264,828 264,680 264,611 264,823 264,823 264,823 264,823 264,823 264,823 264,823 264,824 264,826 264,826 264,826 264,826 264,428 264,428 264,428 264,428 264,428 264,436 264,616 264,516 264,616 264,616 264,616 264,616
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling. Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton. Furniture, G. F. Richardson. Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee. Gas, utilization of by-products in the manufacture of coal, Wallace & Claus. Gate, J. M. Decker. Gate, J. E. Little Gearing, C. E. Albro Generator. See Steam generator. Glas, guide for ruling or for aiding in cutting, W. Wheeler Grain binder, J. F. Appleby Grain binder, J. F. Appleby Grain separator, J. B. Sutt Grain sill, J. E. Holmes. Grinding mill, J. E. Holmes. Grinding mills, test plate for roller, W. D. Gray Glycerine from the residuary waters resulting from the manufacture of soaps, extraction of E. L. M. Brocbon Hammer, power, A. Beaudry. Handle. See Plate and dish handle. Rubber covered handle. Rubber handle. Trunk han-	264,772 264,827 264,827 264,880 264,611 264,800 10,202 264,823 264,810 264,810 264,810 264,810 264,811 264,428 264,492 264,635 264,635 264,635 264,636 264,538 264,638
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner. Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton. Furniture, G. F. Richardson Gas burning device, F. W. Gordon. Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. E. Little Gearing, C. E. Albro Generator. See Steam generator. Glass, guide for ruling or for aiding in cutting, W. Wheeler Grain binder, J. F. Appleby Grain binder, J. F. Appleby Grain binder attachment, Kemp & Ross Grain separator, J. B. Sultt Grain separator and cleaner, D. Best. Grain separator from the residuary waters resulting from the manufacture of soaps, extraction of E. L. M. Brocbon Hammer, power, A. Beaudry Handle. See Plate and dish handle. Rubber covered handle. Rubber handle. Trunk handle. Wire reel handle. Harrow, D. Matteson Harrow and corn planter. combined, M. McNitt.	264,772 264,827 264,827 264,880 264,611 264,800 10,202 264,823 264,510 264,758 264,453 264,640 264,801 264,428 264,428 264,428 264,428 264,430 264,430 264,430 264,616 264,516 264,616 264,516 264,616 264,519 264,616 264,519 264,616 264,519 264,616 264,516 264,516
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling. Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boiler furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton. Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. E. Little	264,772 264,827 264,827 264,860 264,611 264,800 10,202 264,823 264,823 264,823 264,823 264,823 264,6463 264,610 264,453 264,640 264,490 264,602 264,707 264,608 264,533 264,653 264,653 264,655 264,510
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton. Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. E. Little Gearing, C. E. Albro Generator. See Steam generator. Glass, guide for ruling or for aiding in cutting, W. Wheeler Grain binder, J. F. Appleby Grain binder, J. F. Appleby Grain binder, J. F. Appleby Grain separator, J. B. Suitt Grain separator, J. B. Suitt. Handle, J. G. Eberhard. Hammer and screwdriver, claw, J. A. 'Thayer Hammer, power, A. Beaudry. Handle. See Plate and dish handle. Rubber covered handle. Rubber handle. Trunk handle. Wire reel handle. Harrow, D. Matteson. Harrow and corn planter. combined, M. McNitt. Harvester, corn, S. C. Kenaga. Harvester, corn, Kenaga & Briggs.	264,772 264,827 264,827 264,828 264,680 264,611 264,823 264,823 264,823 264,823 264,823 264,823 264,453 264,640 264,835 264,449 264,438 264,428 264,439 264,439 264,510 264,439 264,510 264,436 264,516 264,516 264,516 264,516 264,516 264,516 264,516 264,516 264,516
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boiler furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. E. Little Gearing, C. E. Albro Generator. See Steam generator. Glue, etc., heater, S. Willershausen Grain binder, J. F. Appleby Grain binder attachment, Kemp & Ross Grain cleaning apparatus, D. Best Grain separator, J. B. Suitt Grain separator and cleaner, D. Best Grain separator and cleaner, D. Best Grain separator and cleaner, D. Best Grainding mill, J. E. Holmes. Grinding mills, test plate for roller, W. D. Gray Glycerine from the residuary waters resulting from the manufacture of soaps, extraction of E. L. M. Brocbon Hammer, power, A. Beaudry Hammer, power, A. Beaudry Hammer, power, A. Beaudry Hammer, D. Matteson Harrow and corn planter. combined, M. McNitt Harvester, corn, S. C. Kenaga Harvester, corn, Kenaga Harvester, corn, S. C. Kenaga	264,772 264,827 264,827 264,860 264,611 264,800 10,202 264,823 264,810 264,810 264,810 264,810 264,463 264,640 264,811 264,499 264,695 264,695 264,695 264,695 264,695 264,696 264,510 264,510 264,510 264,510 264,510 264,616 264,510 264,510 264,616 264,510 264,616 264,511 264,708 264,511 264,708 264,513
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton. Flour bolt or dresser, L. B. Fiechter. Flute, T. Berteling. Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton. Furniture, G. F. Richardson. Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee. Gas, utilization of by-products in the manufacture of coal, Wallace & Claus. Gate, J. M. Decker. Gate, J. E. Little. Gearing, C. E. Albro. Generator. See Steam generator. Glas, guide for ruling or for aiding in cutting, W. Wheeler. Grain binder, J. F. Appleby. Grain binder, J. F. Appleby. Grain separator, J. B. Suitt. Grain sill, J. E. Holmes. Grinding mill, J. E. Holmes. Grinding mills, test plate for roller, W. D. Gray. Glycerine from the residuary waters resulting from the manufacture of soaps, extraction of E. L. M. Brocbon. Hammer, power, A. Beaudry. Hammer and screwdriver, claw, J. A. 'Thayer. Hammer, power, A. Beaudry. Handle. See Plate and dish handle. Rubber covered handle. Rubber handle. Rurvester, corn, S. C. Kenaga. Harvester, corn, S. C. Kenaga. Harvester, corn, Kenaga & Briggs. Harvester wheel, V. M. Chafee. Hat or other head covering, L. Hecht. Hay loader, C. Scafe.	264,772 264,827 264,880 264,680 264,611 264,890 10,202 264,823 264,610 264,758 264,640 264,610 264,630 264,640 264,640 264,640 264,640 264,640 264,499 264,508 264,499 264,508 264,490 264,508 264,490 264,508
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boiler furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. E. Little Gearing, C. E. Albro Generator. See Steam generator. Glue, etc., heater, S. Willershausen Grain binder, J. F. Appleby Grain binder attachment, Kemp & Ross Grain cleaning apparatus, D. Best Grain separator and cleaner, D. Best Grain separator and cleaner, D. Best Grain separator and cleaner, D. Best Grain grill, J. E. Holmes. Grinding mill, J. E. Holmes. Grinding mill, J. E. Holmes. Grinding mill, S. Eberbard Hammer and screwdriver, claw, J. A. 'Thayer Hammer, power, A. Beaudry Hannie. See Plate and dish handle. Rubber covered handle. Rubber handle. Rubber handle. Harrow and corn planter. combined, M. McNitt Harvester, corn, S. C. Kenaga Harvester, corn, Kenaga & Briggs Harvester wheel, V. M. Chafee Hay or cotton press, J. A. Lanham Hav rake, horse. Westcott & Conner	264,772 264,827 264,827 264,860 264,611 264,800 10,202 264,823 264,810 264,810 264,823 264,640 264,811 264,460 264,811 264,499 264,908 264,608 264,608 264,608 264,608 264,608 264,608 264,608 264,508 264,608 264,508 264,608 264,508 264,608 264,508 264,608 264,508 264,608
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling. Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boiler furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton. Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. E. Little	264,772 264,827 264,827 264,860 264,611 264,800 10,202 264,823 264,810 264,810 264,823 264,640 264,811 264,460 264,811 264,499 264,908 264,608 264,608 264,608 264,608 264,608 264,608 264,608 264,508 264,608 264,508 264,608 264,508 264,608 264,508 264,608 264,508 264,608
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Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton. Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. E. Little Gearing, C. E. Albro Generator. See Steam generator. Glass, guide for ruling or for aiding in cutting, W. Wheeler Grain binder, J. F. Appleby Grain binder, J. F. Appleby Grain binder, J. F. Appleby Grain binder attachment, Kemp & Ross. Grain separator, J. B. Sultt Grain separator, J. B. Sultt Grain separator and cleaner, D. Best Grain separator and cleaner, D. Best Grain separator and cleaner, D. Best Grain separator and cleaner, D. Gray Glycerine from the residuary waters resulting from the manufacture of soaps, extraction of E. L. M. Brocbon Hammer, power, A. Beaudry Handle. See Plate and dish handle. Rubber covered handle. Rubber handle. Rubber handle. Rurvester, corn, S. C. Kenaga. Harvester, corn, Kenaga & Briggs Harvester, L. N. Condra Heater or condenser, T. W. Duffy Heating apparatus, J. J. Bichardson Heating furnace, J. J. Richardson	264,772 264,827 264,827 264,828 264,680 264,611 264,823 264,823 264,823 264,823 264,823 264,823 264,823 264,823 264,823 264,823 264,823 264,835 264,490 264,535 264,490 264,536 264,602 264,707 264,494 264,516 264,616 264,515 264,490 264,515 264,491 264,616 264,515 264,491 264,616 264,515 264,492 264,515 264,515 264,515 264,515 264,515 264,515 264,515
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Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boiler furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. M. Decker Gate, J. E. Little Gearing, C. E. Albro Generator. See Steam generator. Glass, guide for ruling or for aiding in cutting, W. Wheeler Glue, etc., heater, S. Willershausen Grain binder, J. F. Appleby Grain binder attachment, Kemp & Ross Grain cleaning apparatus, D. Best Grain separator, J. B. Suitt Grain separator and cleaner, D. Best Grain separator from the residuary waters resulting from the manufacture of soaps, extraction of E. L. M. Broebon Hame, J. G. Eberhard Hammer and screwdriver, claw, J. A. Thayer Hammer, power, A. Beaudry Handle. See Plate and dish handle. Rubber covered handle. Rubber handle. Trunk handle. Wire reel handle. Harrow, D. Matteson Harrow and corn planter combined, M. McNitt Harvester, corn, S. C. Kenaga Harvester, corn, S. C. Kenaga Harvester, Sbeaf dumper for self-binding, J. Pearce	264,772 264,827 264,827 264,880 264,680 264,611 264,823 264,823 264,823 264,823 264,823 264,840 264,811 264,499 264,828 264,499 264,563 264,636 264,563 264,646 264,519 264,646 264,519 264,646 264,519 264,653 264,653 264,653 264,653 264,656 264,563 264,663 264,563
Firearm, breech-loading, Scott & Baker. Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. E. Little Gearing, C. E. Albro Generator. See Steam generator. Glass, guide for ruling or for aiding in cutting, W. Wheeler Grain binder, J. F. Appleby Grain binder, J. F. Appleby Grain binder attachment, Kemp & Ross Grain cleaning apparatus, D. Best Grain separator, J. B. Suitt Grain separator, J. B. Suitt. Grain separator, J. B. Suitt. Grain separator and cleaner, D. Best. Grinding mill, J. E. Holmes. Grinding mill, J. E. Berhard Hammer and screwdriver, claw, J. A. 'Thayer Hammer, power, A. Beaudry Handle. See Plate and dish handle. Rubber covered handle. Rubber handle. Rubber handle. Rubber handle. Rubber handle. Rubber covered handle. Rubber handle. Rubber handle. Rury aske, horse, Westcott & Conner. Harvester, corn, Kenaga & Briggs. Harvester, Corn, Kenaga	264,772 264,827 264,827 264,828 264,680 264,611 264,823 264,823 264,823 264,823 264,823 264,610 264,758 264,453 264,616 264,453 264,616 264,499 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513
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