## ENGINEERING INVENTION.

A flue cleaner has been patented by Mr. William E. Sidney, of Frankfort, Ind. It has bell-shaped attachments so placed that their inwardly flaring ends will enter the exposed open ends of a flue, a box nut striking against the boiler head and opening a valve which allows steam to enter the flue to an extent which can be regulated as desired.

## MECHANICAL INVENTION.

A nail plate feeder has been patented by Mr. George T. Harden, of Middleport, O. It is for attachment to nail making machines, to act as a part thereof, to intermittently seize upon the nail rod or plate and feed it to the machine, providing also means whereby nail rods varying slightly in thickness may be fed wth certainty and without danger of breaking the feed works.

## MISCELLANEOUS INVENTIONS.

A harness saddle has been patented by Mr. Jabob Hess, of Muscatine, Iowa. The tree is of metal, having openings through which a nut may be placed, and ribs or guidee, bulged or arched to direct the nut, and so they may be placed after the pad is built up, the treebeing padded only on opposite sides of its

A bedstead has been patented by Mr. Jacob L. Stair, of Altamont, Ill. It is for use with a flexible bottom of webbingor woven wire, and has simple, inexpensive irons or fastenings to support the roller and opposite cross bar of the flexible bed bottom, while being designed for quick and easy connection to the side rails and corner posts of the bedstead.

A method of constructing buildings has been patented by Mr. Samuel C. Burris, of Victoria, British Columbia. It consists in the wall, ceiling, floor, and roofs being built solidly of longitudinally grooved timbers, studs, rafters, etc., with curved grooves or coves formed in their faces to receive and retain mortar or cement, with which the timbers are coated

A flat-iron heater has been patented by Ellen Dillon, of Sioux City, Iowa. It consists of a horizontal base and a hollow pyramidal portion, both made of perforated sheet metal, to cover both of which and the irons, when placed on a stove, is a conical slotted cover, the slots to accommodate the handles of the irons, so that the heat will be well confined

A bedstead fastener has been patented by Messrs. John S. Dickey and William P. McKinney, of Payne, Texas. It consists of a system of wires connected together and with the posts and side rails in such way that by turning a nut upon a bolt in the center the tension upon the connecting wires will be controlled and other fastenings dispensed with.

A photographic paper box has been patented by Mr. Washington Boyce, of Danville, Ill. is designed to hold and protect sensitized paper from the light, and by means of a false bottom, beneath which are springs, all the paper in the box may be constantly pressed toward the top, whereby the paper may be retained in the box when the latter is opened, with

A door check has been patented by Mr. Joseph A. Coultaus, of Brooklyn, N. Y. Combined with an arm arranged to be pivotally connected to the casing of a door is a socket connected to the door, a slotted cylinder within the socket, and a slotted block arranged within the cylinder and acted on by a spring, the device being for holding doors opened at any desired angle, or completely closing them.

A galvanic belt has been patented by Mr. James H. Murray, of Hopkins, Mo. It consists of a series of metal plates that will produce a current when acted on by an exciting liquid, the plates being in pairs and separated by a cotton or woolen fabric, the pairs being connected in series, the ends of the chain formed by the connected plates being in electric communication with two body contact points.

A wheeled scraper has been patented by Mr. Patrick Deevy, of Dudley, Iowa. The scraper bowl is pivotally connected with a crank axle by suspendingarms, with a mechanism to prevent accidental dumping and a manipulating lever supported by a frame within which the bowl swings, with other novel features, whereby the load may be raised from the ground and transported from place to place.

A pressure regulating valve has been patented by Mr. Parker F. Morey, of Portland, Oregon. It is a kind of differential valve to be placed in water service pipes, the valve presenting different areas on its opposite sides or ends, such areas being proportionate to the difference there is to be made in the pressure from receiving mains and delivery pipes, and the device being intended to work automatically.

A shutter worker has been patented by Mr. Charley Cramer, of Clarington, O. Combined with a hinged shutter is a shaft in the window frame, a spring being connected with the shutter and with mechanism operated by the shaft, to the inner end of which is secured a crank and handle lever, whereby the shutter may be easily locked in any desired position when open

A grain huller has been patented by Messrs. Alvah Dewey and Job Short, of Cannelton, Ind. It consists of a perforated box or casing in which are made to revolve cylinders having roughened surfaces with disks secured between the meeting ends of the adjacent cylinders having roughened surfaces and sawlike edges, the machine being especially intended for corn or whole hominy.

A stove pipe collar and clamp has been patented by Messrs. Emmett H. Brower and John J. Travis, of Carson City, Mich. This invention covers novel features of construction intended to prevent force ing the pipe back too far into the flue, and to prevent the pipe slipping forward out of the collar, holding the latter securely to the chimney wall, and so as not to soil the wall finish by soot or dust when the pipe is re-

## NEW BOOKS AND PUBLICATIONS.

ELECTRIC TRANSMISSION OF ENERGY. Gisbert Kapp, C.E. London, 1886. Pp. 331, with cuts.

In this work by the well known electrical engineer, the subject of the title is treated systematically, beginning with the rudimentary principles and going through to the latest economical developments. His statement of the laws regulating the field of force of induced magnetic effects is one of the clearest and most accurately reasoned that we have met with. Mathematical formulæ are used sparingly in this section. Further on, the mathematics of the subject are further developed. In the illustrations, clearness and applicability are aimed at rather than picturesqueness, which is a most commendable feature. The work has an index. It bears the imprint of the famous Chiswick Press, and is characterized by the extreme neatness common to the work of Whittingham & Co.

# THE RILEY ELEVATED RAILWAY SYSTEM. New York.

This is, to a great extent, an atlas of plates showing the different constructions of this railway, and its applicability to mountainous countries. It is to be run by electricity. The way has three rails, the center one much higher than the lateral ones. Certificates and opinions of eminent engineers as to the practicability and merits of the device are given.

The charge for Insertion under this head is One Dollar a line for each insertion; about eight words to a line.

HINTS TO CORRESPONDENTS.

Names and Address must accompany all letters, or no attention will be paid thereto. This is for our information, and not for publication.

References to former articles or answered in reasonable time should be repeated; correspondents will bear in midd that be repeated; correspondents will bear in midd that some answers require not a little research, and, though we endeavor to reply to all, either by letter or in this department, each must take his turn.

Special Written Information on matters of personal rather than general interest cannot be expected without remuneration.

Scientific American Supplements referred to may be had at the office. Price 10 cents each.

Books referred to promptly supplied on receipt of price. the different constructions of this railway, and its applicability to mountainous countries. It is to be run by electricity. The way has three rails, the center one much higher than the lateral ones. Certificates and opinions of eminent engineers as to the practicability and merits of the device are given.

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 is sue

Wanted.-A machine for manufacturing bed quilts nplain and fancy patterns. Address F. H., Box 773, N. Y. City.

The Knowles Steam Pump Works, 44 Washington St., Boston, and 93 Liberty St., New York, have just issued a new catalogue, in which are many new and improved forms of Pumping Machinery of duplex, steam and power type. This catalogue will be mailed free of charge on application.

Curtis Pressure Regulator and Steam Trap. See p. 142. Presses & Dies. Ferracute Mach. Co., Bridgeton, N. J. Machinery for Light Manufacturing, on hand and built to order. E. E. Garvin & Co., 139 Center St., N. Y.

A Catechism on the Leapmotive. By M. N. Forney. With 19 plates, 227 engravings, and 600 pages. \$2.50. Sent on receipt of the price by Munn & Co., 361 Broadway,

Guild & Garrison's Steam Pump Works, Brooklyn, N. Y. Pumps for liquids, air, and gases. New catalogue now ready.

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"Little Wonder." A perfect Electro Plating Machine.
Sole manufacturers of the new Dip Lacquer Kristaline. Complete outfit for plating, etc. Hanson, Van Winkle & Co., Newark, N. J., and 92 and 94 Liberty St., New York.

Hannell's Engineer's Pocket-Book. By Charles H. Haswell, Civil, Marine, and Mechanical Engineer. Giving Tables, Rules, and Formulas pertaining to Mechanics, Mathematics, and Physics, Architecture, Masonry, Steam Vessels, Mills, Limes, Mortars, Cements, etc. 900 pages, leather, pocket-book form, \$4.00. For sale by Munn & Co., 361 Broadway. New York,

Iron Planer, Lathe, Drill, and other machine tools of modern design. New Haven Mfg.Co., New Haven, Conn. Planing and Matching Machines. All kinds Wood Working Machinery. C. B. Rogers & Co., Norwich, Conn. Nystrom's Mechanics.—A pocket book of mechanics and engineering, containing a memorandum of facts and connection of practice and theory, by J. W. Nystrom, C.E., 18th edition, revised and greatly enlarged, plates. 12mo, roan tuck. Price, \$3.50. For sale by Munn & Co., 361 Broadway, New York city.

Iron, Steel, and Copper Drop Forgings of every de scription. Billings & Spencer Co., Hartford, Conn.

We are sole manufacturers of the Fibrous Asbestos Removable Pipe and Boiler Coverings. We make pure asbestos goods of all kinds. The Chalmers-Spence Co. 419 East 8th Street, New York.

Send for catalogue of Scientific Books for sale by Munn & Co., 361 Broadway, N. Y. Free on application. Steam Hammers, Improved Hydraulic Jacks, and Tube Expanders. R. Dudgeon, 24 Columbia St., New York.

60,000 Emerson's 1886 F Bookof superior saws, with Supplement, sent free to all Sawyers and Lumbermen. Address Emerson, Smith & Co., Limited, Beaver Falls,

Supplement Catalogne.—Persons in pursuit of information of 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 physical science. Address Munn & Co., Publishers, New York.

Safety Elevators, steam and belt power; quick and smooth. D. Frisbie & Co., 112 Liberty St., New York.

"How to Keep Boilers Clean." Send your address for free 88 page book. Jas. C. Hotchkiss, 93 John St., N. Y. Barrel, Keg. Hogshead, Stave Mach'v, See adv. p. 366.

If an invention has not been patented in the United States for more than one year, it may still be patented in Canada. Cost for Canadian patent, \$40. Various other foreign patents may also be obtained. For instructions address Munn & Co., Scientific American patent agency, 361 Broadway, New York.

Astronomical Telescopes, from 6" to largest size. Observatory Domes, all sizes. Warner & Swasey. Cleveland, O.

The Faith Cure.

If you do not value your health, and your time is not worth anything, pin your faith to the or the mortar from "Knock Chapel." But if you do value health, and have not time to waste in useless experiments, take Dr. R. V. Pierce's "Golden Medical Dis-covery" on the appearance of the first symptoms of consumption; which are a loss of appetite and fiesh, general debility, slight, dry, hacking cough, etc. Every day you defer treating your case in a rational manner stamps to World's Dispensary Medical Association, Buffalo, N. Y., for Dr. Pierce's Treatise on Consumption.

Iron and Steel Wire, Wire Rope, Wire Rope Tramways. Trenton Iron Company, Trenton, 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.

Grimshaw.-Steam Engine Catechism.-A series of thoroughly Practical Questions and Answers arranged so as to give to a Young Engineer just the information required to fit him for properly running an engine. By Robert Grimshaw. 18mo, cloth, \$1.00. For sale by Munn & Co., 361 Broadway, N. Y

"Illustrations and Descriptions of Recent Locomo tives"; enlarged edition; 525 engravings; ready Sept. 1. Price, \$3.50. Send for circular to the Railroad Gazette, 78 Broadway, N. Y.



HINTS TO CORRESPONDENTS.

Minerals sent for examination should be distinctly marked or labeled.

(1) S. S. asks how many days during the summer of 1885 the thermometer reached 98° or over in this city. A. On no day during the summer of 1885 did the temperature reach 98° Fah. at the U. S. Signal Service station, where the official records are made for New York city. This station is on the top of the Equitable building, about 100 feet above the street, and the temperature there has been generally three or four degrees lower than that on the stree during all the hottest days. The record of a standard thermometer five feet above the sidewalk showed one

(2) E. L. K.-The articles you refer to are known as Rupert's drops. They are made by dropping melted glass into cold water, leaving the glass balls in a high state of tension, so they go to fine pieces, with a report, from a slight blow. description of their manufacture will be found in chemistry under "Glass."

day 98° and another 99° Fah. during 1885.

(3) C. H. P. says: A discussion has arisen here between a number of baseball players over the following question, which it has been agreed to leave to you to decide, through the Notes and Queries column of the Scientific American: At a game, recently, a "fly" was struck, and the first baseman attempted to catch it, but the ball bounded from his hand and a fielder near by caught it, before the ball reached the ground. Was it out, or not? We fail to find it in the book of rules, for 1886. A. It was out.

(4) W. H. K. asks how coniferin is prepared. A. Coniferin is found in the cambium of coniferous woods, and separates on concentration to one fifth of its volume. It forms glittering efflorescent needles fusing at 185°, difficultly soluble in cold water, more easily in hot water and alcohol.

(5) Edw. asks the process of silvering glass with a liquid, so as to produce a reflecting sur face. A. Take of lead and tin, of each 2 oz., bismuth 2 oz., mercury 4 oz. Add the mercury to the rest in a melted state, and remove from the fire; mix well with an iron rod. This amalgam melts at a low heat, and is employed for silvering the insides of hollow glass vessels, globes, convex mirrors, etc. The glass being well cleaned, is carefully warmed, and the amalgam rendered fluid by heat is then poured in, and the vessel turned round and round, so that the metal may be brought in contact with every part of the glass which it is desired to cover. At a certain temperature this amalgam readily adheres to glass.

(6) W. G. A. desires some cheap chemical solution that would render a small piece of wood non-inflammable. A. The timber is inclosed in a close iron vessel in which a vacuum is formed. A solution of sulphate of iron is then admitted into the vessel, which instantly insinuates itself into all the pores of the wood, previously freed from air by the vacuum, and, after about a minute's exposure, impregnates its entire substance. The sulphate of iron is then withdrawn, and another solution of muriate of lime thrown in. The two salts then react upon each other, and form two combinations within the substance of the woodmuriate of iron and sulphate of lime. Timber thus treated is preserved both from rot and from the attack of worms, and is incombustible.

(7) H. M. P. asks: 1. Have any particulars of the experiments of Meyer on the decomposition of chlorine, in 1879, been announced? A. See a "Contribution to the Knowledge of Chlorine," in Sci-ENTIFIC AMERICAN SUPPLEMENT, No. 229, chemical journals during 1879 and 1880 contain numerous papers on the subject. 2. Has the decomposition of chlorine been proved? A. It has not. Chlorine is still an element. 3. Has any other supposed element been decomposed? A. Many of the recently announced elements have been shown by spectroscopic examination to be of a compound nature. 4. Are Mr. Lockyer's views of the non-elementary character of so-called elements generally believed? A. Mr. Lockver's views in ageneral way are generally believed in.

(8) C. R. H. asks the cause of the phosphorescence of white sugar. A. Ganot describes the phenomenon referred to as "phosphorescence by mechanical effects," such as friction, percussion, cleavage,

(9) E. C. T., of Mo., sends an insect which is attracting attention at Stockton, and asks

what it is, if poisonous, etc. Professor Howard, of the Entomological Division, U. S. Department of Agriculture, to whom we referred the specimen, says: The insect is the common Northern mole cricket (Gryllotal pa borealis, Burm). This insect is quite common all through the Northern States, and in the extreme South its place is taken by an allied species. In some parts of the country, it is so abundant as to be reckoned as an injurious insect, but ordinarily it is rare, and is seldom noticed. It works at right, and burrows under the surface of the ground, and avoids the light of day as much as possible. Its fore legs are curiously modified, and admirably adapted for digging. They are exceedingly strong, and many times the size of the middle and hind legs. It feeds upon the tender roots of plants, and in Europe it frequently does great damage by undermining whole beds of cabbages and beans. In the West Indies an allied species feeds upon sugar cane. The common remedy is use in Europe consists in placing grated carrot or potato mixed with poison in their haunts. Swine eat them greedily, and easily root them out from their burrows.

(10) R. R. S.—Absolute zero, according to C. A. Young, is -459° Fah. It has been only mathematically computed, the lowest artificial temperature et produced being about -220° Fah.

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

O. & B.—The specimen is ordinary clay, containing a certain amount of iron oxide. It has no value as a pigment in New York. If burnt, it can be used locally as a cheap paint when mixed with oil.

## INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted.

August 3, 1886

### AND EACH BEARING THAT DATE.

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١	Ankle supporter, J. G. Pugsley	
.	Annunciator, electrical, D. Rousseau	346,609
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1	Axle nut, G. H. Eaton	346,469
ļ	Baking pan, J. F. Doebler	346,808
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ĺ	Bat for lawn tennis, R. S. Moss	346 958
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1	Bath waste and overflow, T. Butler	346,579
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١	Bearing, anti-friction, J. W. Boyer	346.716
1	Beds, crib attachment for, Pace & Read	948 485
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١	Belt, cartridge, W. S. Capewell	846,719
١	Belt or strap fastener, W. R. Harris	346,747
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1	Bit. See Bridle bit.	010,000
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í	Blackboard and writing desk combined, Butler	
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:	Blind slat, window, S. Palmer	
1	Blower, sand, E. F. Freeman	
i	Board. See Baseboard Wash board.	,
i	Boiler. See Steam boiler.	
1	Dollar tube cleaner C. C1	040 80=
ı	Boiler tube cleaner, S. S. Cook	
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	Bridges, construction of, C. F. T. Kandeler Brush, daubing, D. G. Lawrence Buckle, suspender, J. C. Hyde Building block, H. A. Dauiels. Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran. Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth. Button, F. A. Fox Button and fastening, E. P. Whitney Button hook, G. O. Ring Cables, machine for making and trimming compound wire, G. M. Cruickshank Caisson, Hall & Bull. Calculator, L. M. Carmical	346,878 346,591 346,662 346,831 346,638 346,558 346,558 346,528 346,629 346,645 346,645 346,543 346,905 346,705
	Bridges, construction of, C. F. T. Kandeler Brush, daubing, D. G. Lawrence Buckle, suspender, J. C. Hyde Building block, H. A. Daniels Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth Button, F. A. Fox Button and fastening, E. P. Whitney Button hook, G. O. Ring Cables, machine for making and trimming compound wire, G. M. Cruickshank Caisson, Hall & Bull Calculator, L. M. Carmical Calipers, micrometer, M. M. Barnes346,456, Cane, etc., mill for presssing, J. Murphy	346,878 346,591 346,662 346,851 346,733 346,588 346,558 346,656 346,649 346,649 346,645 346,645 346,543 346,543 346,705 346,493
	Bridges, construction of, C. F. T. Kandeler Brush, daubing, D. G. Lawrence Buckle, suspender, J. C. Hyde Building block, H. A. Daniels Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth Button, F. A. Fox Button and fastening, E. P. Whitney Button hook, G. O. Ring Cables, machine for making and trimming compound wire, G. M. Cruickshank Caisson, Hall & Bull Calculator, L. M. Carmical Calipers, micrometer, M. M. Barnes346,456, Cane, etc., mill for presssing, J. Murphy	346,878 346,591 346,662 346,851 346,733 346,588 346,558 346,656 346,649 346,649 346,645 346,645 346,543 346,543 346,705 346,493
AMPLO COMPANY	Bridges, construction of, C. F. T. Kandeler Brush, daubing, D. G. Lawrence Buckle. suspender, J. C. Hyde Building block, H. A. Daniels Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth Button, F. A. Fox Button and fastening, E. P. Whitney Button hook, G. O. Ring Cables, machine for making and trimming compound wire, G. M. Cruickshank Caisson, Hall & Bull Calculator, L. M. Carmical Calipers, micrometer, M. M. Barnes 346,456, Cane, etc., mill for presssing, J. Murphy Capstan, S. Montgomery	346,878 346,591 346,662 346,851 346,738 346,558 346,558 346,856 346,645 346,645 346,543 346,705 346,705 346,493 346,905 346,493
	Bridges, construction of, C. F. T. Kandeler Brush, daubing, D. G. Lawrence Buckle, suspender, J. C. Hyde Building block, H. A. Daniels. Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran. Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth Button, F. A. Fox Button and fastening, E. P. Whitney. Button hook, G. O. Ring Cables, machine for making and trimming compound wire, G. M. Cruickshank Caisson, Hall & Bull Calculator, L. M. Carmical Calipers, micrometer, M. M. Barnes	346,578 346,591 346,682 346,683 346,538 346,558 346,558 346,528 346,528 346,528 346,528 346,543 346,543 346,905 346,705 346,493 346,493 346,493
- ALL CONTROL OF THE	Bridges, construction of, C. F. T. Kandeler Brush, daubing, D. G. Lawrence Buckle, suspender, J. C. Hyde Building block, H. A. Daniels Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran. Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth Button, F. A. Fox Button and fastening, E. P. Whitney Button hook, G. O. Ring Cables, machine for making and trimming compound wire, G. M. Cruickshank Caisson, Hall & Bull Calculator, L. M. Carmical. Calipers, micrometer, M. M. Barnes346,456, Cane, etc., mill for presssing, J. Murphy Capstan, S. Montgomery Car coupling, Brill & Zitzman	346,878 346,591 346,692 346,851 346,734 346,638 346,558 346,856 346,649 346,649 346,905 346,905 346,903 346,493 346,493 346,493 346,493 346,493 346,522 346,551
	Bridges, construction of, C. F. T. Kandeler. Brush, daubing, D. G. Lawrence. Buckle. suspender, J. C. Hyde. Building block, H. A. Daniels. Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran. Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth. Button, F. A. Fox. Button hook, G. O. Ring. Cables, machine for making and trimming compound wire, G. M. Cruickshank. Caisson, Hall & Bull. Calculator, L. M. Carmical. Calipers, micrometer, M. M. Barnes	346,878 346,591 346,652 346,851 346,838 346,558 346,656 346,649 346,523 346,645 346,543 346,908 346,908 346,903 346,905 346,93 346,93 346,83 346,55 346,55
	Bridges, construction of, C. F. T. Kandeler. Brush, daubing, D. G. Lawrence. Buckle. suspender, J. C. Hyde. Building block, H. A. Daniels. Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran. Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth. Button, F. A. Fox. Button hook, G. O. Ring. Cables, machine for making and trimming compound wire, G. M. Cruickshank. Caisson, Hall & Bull. Calculator, L. M. Carmical. Calipers, micrometer, M. M. Barnes	346,878 346,591 346,652 346,851 346,838 346,558 346,656 346,649 346,523 346,645 346,543 346,908 346,908 346,903 346,905 346,93 346,93 346,83 346,55 346,55
	Bridges, construction of, C. F. T. Kandeler.  Brush, daubing, D. G. Lawrence.  Buckle, suspender, J. C. Hyde.  Building block, H. A. Dauiels.  Buildings, construction of, S. C. Burris  Bung faucet, J. D. Moran.  Burner. See Lamp burner.  Burner and lamp for mineral oils or their equivalents, G. W. Lyth.  Button F. A. Fox.  Button and fastening, E. P. Whitney.  Button hook, G. O. Ring.  Cables, machine for making and trimming compound wire, G. M. Cruickshank.  Caisson, Hall & Bull.  Calculator, L. M. Carmical.  Calipers, micrometer, M. M. Barnes.  346,456,  Cane, etc., mill for presssing, J. Murphy.  Capstan, S. Montgomery.  Car coupling, Brill & Zitzman.  Car coupling, B. Jones.  Car coupling, W. J. Rhodes.  Car coupling, W. J. Rhodes.  Car coupling, Westbrook & Cook.	346,878 346,591 346,692 346,851 346,734 346,558 346,558 346,528 346,645 346,523 346,608 346,543 346,906 346,705 346,493 346,493 346,493 346,551 346,551 346,559 346,559
	Bridges, construction of, C. F. T. Kandeler. Brush, daubing, D. G. Lawrence. Buckle. suspender, J. C. Hyde. Building block, H. A. Daniels. Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran. Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth. Button, F. A. Fox. Button hook, G. O. Ring. Cables, machine for making and trimming compound wire, G. M. Cruickshank. Caisson, Hall & Bull. Calculator, L. M. Carmical. Calipers, micrometer, M. M. Barnes	346,878 346,591 346,692 346,851 346,734 346,558 346,558 346,528 346,645 346,523 346,608 346,543 346,906 346,705 346,493 346,493 346,493 346,551 346,551 346,559 346,559
	Bridges, construction of, C. F. T. Kandeler Brush, daubing, D. G. Lawrence Buckle, suspender, J. C. Hyde Building block, H. A. Daniels Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran. Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth. Button, F. A. Fox Button and fastening, E. P. Whitney Button hook, G. O. Ring. Cables, machine for making and trimming compound wire, G. M. Cruickshank Caisson, Hall & Bull. Calculator, L. M. Carmical. Calipers, micrometer, M. M. Barnes	346,873 346,862 346,862 346,863 346,784 346,638 346,528 346,649 346,645 346,645 346,646 346,643 346,645 346,633 346,734 346,933
	Bridges, construction of, C. F. T. Kandeler.  Brush, daubing, D. G. Lawrence.  Buckle, suspender, J. C. Hyde.  Buildings block, H. A. Daniels.  Buildings, construction of, S. C. Burris  Bung faucet, J. D. Moran.  Burner. See Lamp burner.  Burner and lamp for mineral oils or their equivalents, G. W. Lyth.  Button, F. A. Fox.  Button and fastening, E. P. Whitney.  Button hook, G. O. Ring.  Cables, machine for making and trimming compound wire, G. M. Cruickshank.  Caligars, micrometer, M. M. Barnes.  346,456, Cane, etc., mill for pressing, J. Murphy.  Capstan, S. Montgomery.  Car coupling, Brill & Zitzman.  Car coupling, H. L. Peck.  Car coupling, W. J. Rhodes.  Car coupling, Westbrook & Cook.  Car coupling, C. D. Wooley.  Car coupling, C. D. Wooley.  Car coupling, D. Zeigler.  346,881.	346,873 346,862 346,851 346,783 346,858 346,583 346,583 346,583 346,683 346,683 346,923 346,923 346,933 346,933 346,933 346,83
- ALIVERT	Bridges, construction of, C. F. T. Kandeler Brush, daubing, D. G. Lawrence Buckle, suspender, J. C. Hyde Building block, H. A. Daniels. Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran. Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth Button, F. A. Fox Button and fastening, E. P. Whitney Button hook, G. O. Ring Cables, machine for making and trimming compound wire, G. M. Cruickshank Caisson, Hall & Bull Calipers, micrometer, M. M. Barnes	346,873 346,862 346,863 346,783 346,583 346,583 346,583 346,583 346,603 346,603 346,603 346,705 346,403 346,403 346,403 346,503 346,60
	Bridges, construction of, C. F. T. Kandeler. Brush, daubing, D. G. Lawrence. Buckle, suspender, J. C. Hyde. Building block, H. A. Daniels. Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran. Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth. Button, F. A. Fox. Button and fastening, E. P. Whitney. Button hook, G. O. Ring. Cables, machine for making and trimming compound wire, G. M. Cruickshank. Caisson, Hall & Bull. Calculator, L. M. Carmical. Calipers, micrometer, M. M. Barnes. 346,456, Cane, etc., mill for presssing, J. Murphy. Capstan, S. Montgomery. Car coupling, Brill & Zitzman. Car coupling, B. Jones. Car coupling, Westbrook & Cook. Car coupling, Westbrook & Cook. Car coupling, C. D. Wooley. Cars, safety attachment for railway, G. Marston. Carbureting compound, F. W. Burk.	346,851 346,851 346,758 346,851 346,758 346,858 346,856 346,858 346,856 346,845 346,920 346,845 346,920 346,845 346,920 346,845 346,920 346,845 346,84
	Bridges, construction of, C. F. T. Kandeler.  Brush, daubing, D. G. Lawrence.  Buckle, suspender, J. C. Hyde.  Buildings block, H. A. Daniels.  Buildings, construction of, S. C. Burris  Bung faucet, J. D. Moran.  Burner. See Lamp burner.  Burner and lamp for mineral oils or their equivalents, G. W. Lyth.  Button, F. A. Fox.  Button and fastening, E. P. Whitney.  Button hook, G. O. Ring.  Cables, machine for making and trimming compound wire, G. M. Cruickshank.  Caisson, Hall & Bull.  Caliplers, micrometer, M. M. Barnes.  346,456, Cane, etc., mill for pressing, J. Murphy.  Capstan, S. Montgomery.  Car coupling, Brill & Zitzman.  Car coupling, H. L. Peck.  Car coupling, W. J. Rhodes.  Car coupling, W. J. Rhodes.  Car coupling, D. Zeigler.  346,881.  Carspate Sweeper, W. H. Castle.	346,873 346,861 346,851 346,853 346,538 346,538 346,538 346,649 346,532 346,603 346,603 346,603 346,603 346,603 346,603 346,603 346,603 346,603 346,603 346,603 346,603 346,603 346,603 346,603 346,603 346,603 346,603 346,603
	Bridges, construction of, C. F. T. Kandeler.  Brush, daubing, D. G. Lawrence.  Buckle, suspender, J. C. Hyde.  Building block, H. A. Daniels.  Buildings, construction of, S. C. Burris  Bung faucet, J. D. Moran.  Burner. See Lamp burner.  Burner and lamp for mineral oils or their equivalents, G. W. Lyth.  Button, F. A. Fox.  Button and fastening, E. P. Whitney.  Button hook, G. O. Ring.  Cables, machine for making and trimming compound wire, G. M. Cruickshank.  Caisson, Hall & Bull.  Calculator, L. M. Carmical.  Calipers, micrometer, M. M. Barnes.  346,456, Cane, etc., mill for presssing, J. Murphy.  Car coupling, Brill & Zitzman.  Car coupling, Brill & Zitzman.  Car coupling, H. L. Peck.  Car coupling, W. J. Rhodes.  Car coupling, Westbrook & Cook.  Car coupling, Westbrook & Cook.  Car coupling, D. Zeigler.  346,831.  Cars, safety attachment for railway, G. Marston.  Carput sweeper, W. H. Castle.  Carriage, baby, A. T. Vannerson.	346,873 346,851 346,852 346,853 346,758 346,858 346,558 346,603 346,60
	Bridges, construction of, C. F. T. Kandeler.  Brush, daubing, D. G. Lawrence.  Buckle, suspender, J. C. Hyde.  Buildings block, H. A. Daniels.  Buildings, construction of, S. C. Burris  Bung faucet, J. D. Moran.  Burner. See Lamp burner.  Burner and lamp for mineral oils or their equivalents, G. W. Lyth.  Button, F. A. Fox.  Button and fastening, E. P. Whitney.  Button hook, G. O. Ring.  Cables, machine for making and trimming compound wire, G. M. Cruickshank.  Caisson, Hall & Bull.  Caliplers, micrometer, M. M. Barnes.  346,456, Cane, etc., mill for pressing, J. Murphy.  Capstan, S. Montgomery.  Car coupling, Brill & Zitzman.  Car coupling, H. L. Peck.  Car coupling, W. J. Rhodes.  Car coupling, W. J. Rhodes.  Car coupling, D. Zeigler.  346,881.  Carspate Sweeper, W. H. Castle.	346,873 346,851 346,852 346,853 346,758 346,858 346,558 346,603 346,60
	Bridges, construction of, C. F. T. Kandeler. Brush, daubing, D. G. Lawrence. Buckle, suspender, J. C. Hyde. Building block, H. A. Daniels. Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran. Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth. Button, F. A. Fox. Button and fastening, E. P. Whitney. Button hook, G. O. Ring. Cables, machine for making and trimming compound wire, G. M. Cruickshank. Caisson, Hall & Bull. Calculator, L. M. Carmical. Calipers, micrometer, M. M. Barnes. 346,456, Cane, etc., mill for presssing, J. Murphy. Capstan, S. Montgomery. Car coupling, Brill & Zitzman. Car coupling, Brill & Zitzman. Car coupling, W. J. Rhodes. Car coupling, W. J. Rhodes. Car coupling, Westbrook & Cook. Car coupling, D. Zeigler. Cars, safety attachment for railway, G. Marston. Carbureting compound, F. W. Burk. Carpet sweeper, W. H. Castle. Carriage, baby, A. T. Vannerson. Carriage screen, W. M. Moore.	346,873 346,851 346,852 346,853 346,758 346,858 346,558 346,603 346,60
	Bridges, construction of, C. F. T. Kandeler. Brush, daubing, D. G. Lawrence. Buckle, suspender, J. C. Hyde. Building block, H. A. Daniels. Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran. Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth. Button, F. A. Fox. Button and fastening, E. P. Whitney. Button hook, G. O. Ring. Cables, machine for making and trimming compound wire, G. M. Cruickshank. Caisson, Hall & Bull. Calculator, L. M. Carmical. Calipers, micrometer, M. M. Barnes. 346,456, Cane, etc., mill for presssing, J. Murphy. Capstan, S. Montgomery. Car coupling, Brill & Zitzman. Car coupling, Brill & Zitzman. Car coupling, W. J. Rhodes. Car coupling, W. J. Rhodes. Car coupling, C. D. Wooley. Car coupling, C. D. Wooley. Car coupling, C. D. Wooley. Cars, safety attachment for railway, G. Marston. Carput sweeper, W. H. Castle. Carriage, baby, A. T. Vannerson. Carriage screen, W. M. Moore. Carrier. See Hair carrier.	346,873 346,861 346,863 346,853
	Bridges, construction of, C. F. T. Kandeler.  Brush, daubing, D. G. Lawrence.  Buckle, suspender, J. C. Hyde.  Building block, H. A. Daniels.  Buildings, construction of, S. C. Burris  Bung faucet, J. D. Moran.  Burner. See Lamp burner.  Burner and lamp for mineral oils or their equivalents, G. W. Lyth.  Button, F. A. Fox.  Button and fastening, E. P. Whitney.  Button hook, G. O. Ring.  Cables, machine for making and trimming compound wire, G. M. Cruickshank.  Caisson, Hall & Bull.  Calipers, micrometer, M. M. Barnes.  346,456,  Cane, etc., mill for presssing, J. Murphy.  Car coupling, Brill & Zitzman.  Car coupling, Brill & Zitzman.  Car coupling, H. L. Peck.  Car coupling, Westbrook & Cook.  Car coupling, C. D. Wooley.  Car coupling, D. Zeigler.  346,831,  Carpst as Safety attachment for railway, G. Marston.  Carpter tweeper, W. H. Castle.  Carriage screen, W. M. Moore.  Carrier. See Hair carrier.	346,873 346,851 346,852 346,858 346,858 346,858 346,689 346,683 346,60
	Bridges, construction of, C. F. T. Kandeler. Brush, daubing, D. G. Lawrence. Buckle, suspender, J. C. Hyde. Building block, H. A. Daulels. Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran. Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth. Button, F. A. Fox. Button and fastening, E. P. Whitney. Button hook, G. O. Ring. Cables, machine for making and trimming compound wire, G. M. Cruickshank. Cailsers, micrometer, M. M. Barnes. Acaison, Hall & Bull. Calculator, L. M. Carmical. Calipers, micrometer, M. M. Barnes. Acar coupling, Brill & Zitzman. Car coupling, Brill & Zitzman. Car coupling, W. J. Rhodes. Car coupling, W. J. Rhodes. Car coupling, W. J. Rhodes. Car coupling, D. Zeigler. Cars, safety attachment for railway, G. Marston. Carbureting compound, F. W. Burk. Carpet sweeper, W. H. Castle. Carriage, baby, A. T. Vannerson. Carriage screen, W. M. Moore. Cart, R. T. Schall. Cart, read, M. H. Lane.	346,873 346,851 346,852 346,853 346,85
	Bridges, construction of, C. F. T. Kandeler. Brush, daubing, D. G. Lawrence. Buckle, suspender, J. C. Hyde. Building block, H. A. Daniels. Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran. Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth. Button, F. A. Fox. Button and fastening, E. P. Whitney. Button hook, G. O. Ring. Cables, machine for making and trimming compound wire, G. M. Cruickshank. Caisson, Hall & Bull. Calculator, L. M. Carmical. Calipers, micrometer, M. M. Barnes. 346,456, Cane, etc., mill for presssing, J. Murphy. Capstan, S. Montgomery. Car coupling, Brill & Zitzman. Car coupling, Brill & Zitzman. Car coupling, W. J. Rhodes. Car coupling, Westbrook & Cook. Car coupling, C. D. Wooley. Cars, safety attachment for railway, G. Marston. Carbureting compound, F. W. Burk. Carpet sweeper, W. H. Castle. Carriage, baby, A. T. Vannerson. Carriage screen, W. M. Moore. Cartinge screen, W. M. Moore. Cart. R. T. Schall. Cart. road, M. H. Lane. Cartinge shells, making, W. Lorenz.	346,873 346,861 346,851 346,853 346,858 346,85
	Bridges, construction of, C. F. T. Kandeler. Brush, daubing, D. G. Lawrence. Buckle, suspender, J. C. Hyde. Buildings block, H. A. Daniels. Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran. Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth. Button, F. A. Fox. Button and fastening, E. P. Whitney. Button hook, G. O. Ring. Cables, machine for making and trimming compound wire, G. M. Cruickshank. Caisson, Hall & Bull. Calipers, micrometer, M. M. Barnes. 346,456, Cane, etc., mill for presssing, J. Murphy. Capstan, S. Montgomery. Car coupling, Brill & Zitzman. Car coupling, Brill & Zitzman. Car coupling, Westbrook & Cook. Car coupling, Westbrook & Cook. Car coupling, D. Zeigler. 346,831, Cars, safety attachment for railway, G. Marston. Carbureting compound, F. W. Burk. Carpets weeper, W. H. Castle. Carriage screen, W. M. Moore. Carrier, See Hair carrier. Cart, R. T. Schall. Cart, road, M. H. Lane. Carving machine, E. D. Mackintosh.	346,873 346,851 346,852 346,853
	Bridges, construction of, C. F. T. Kandeler. Brush, daubing, D. G. Lawrence. Buckle, suspender, J. C. Hyde. Building block, H. A. Daniels. Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran. Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth. Button, F. A. Fox. Button and fastening, E. P. Whitney. Button hook, G. O. Ring. Cables, machine for making and trimming compound wire, G. M. Cruickshank. Caisson, Hall & Bull. Calculator, L. M. Carmical. Calipers, micrometer, M. M. Barnes. 346,456, Cane, etc., mill for presssing, J. Murphy. Capstan, S. Montgomery. Car coupling, Brill & Zitzman. Car coupling, Brill & Zitzman. Car coupling, W. J. Rhodes. Car coupling, Westbrook & Cook. Car coupling, C. D. Wooley. Cars, safety attachment for railway, G. Marston. Carbureting compound, F. W. Burk. Carpet sweeper, W. H. Castle. Carriage, baby, A. T. Vannerson. Carriage screen, W. M. Moore. Cartinge screen, W. M. Moore. Cart. R. T. Schall. Cart. road, M. H. Lane. Cartinge shells, making, W. Lorenz.	346,873 346,851 346,852 346,853
AMPARTMENT	Bridges, construction of, C. F. T. Kandeler. Brush, daubing, D. G. Lawrence. Buckle, suspender, J. C. Hyde. Building block, H. A. Daniels. Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran. Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth. Button, F. A. Fox. Button and fastening, E. P. Whitney. Button hook, G. O. Ring. Cables, machine for making and trimming compound wire, G. M. Cruickshank.  Caisson, Hall & Bull. Calipers, micrometer, M. M. Barnes.  Calipers, micrometer, M. M. Barnes.  Caroupling, Brill & Zitzman. Car coupling, Brill & Zitzman. Car coupling, W. J. Rhodes. Car coupling, W. Y. Rhodes. Car coupling, W. J. Rhodes. Car coupling, D. Zeigler.  Caryt, R. T. Schall.  Cart, R. T. Schall.  Cart, R. T. Schall.  Carving machine, E. D. Mackintosh. Cement, making hydraulic. J. Anderson.	346,873 346,851 346,852 346,853 346,753 346,853 346,533 346,60
- Alexander - Alex	Bridges, construction of, C. F. T. Kandeler. Brush, daubing, D. G. Lawrence. Buckle, suspender, J. C. Hyde. Building block, H. A. Daniels. Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran. Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth. Button, F. A. Fox. Button and fastening, E. P. Whitney. Button hook, G. O. Ring. Cables, machine for making and trimming compound wire, G. M. Cruickshank. Caisson, Hall & Bull. Calculator, L. M. Carmical. Calipers, micrometer, M. M. Barnes. 346,456, Cane, etc., mill for presssing, J. Murphy. Capstan, S. Montgomery. Car coupling, Brill & Zitzman. Car coupling, B. Jones. Car coupling, W. J. Rhodes. Car coupling, W. J. Rhodes. Car coupling, Westbrook & Cook. Car coupling, D. Zeigler. Cary, safety attachment for railway, G. Marston. Carbureting compound, F. W. Burk. Carpet sweeper, W. H. Castle. Carriage, baby, A. T. Vannerson. Carriage screen, W. M. Moore. Cart, R. T. Schall. Cart, road, M. H. Lane. Cartring machine. E. D. Mackintosh. Cement, making hydraulic, J. Anderson. Chains, ornamenting, W. C. & H. C. Starr.	346,873 346,851 346,852 346,853 346,753 346,853 346,533 346,60
	Bridges, construction of, C. F. T. Kandeler. Brush, daubing, D. G. Lawrence. Buckle, suspender, J. C. Hyde. Buildings block, H. A. Daniels. Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran. Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth. Button, F. A. Fox. Button and fastening, E. P. Whitney. Button hook, G. O. Ring. Cables, machine for making and trimming compound wire, G. M. Cruickshank. Caisson, Hall & Bull. Calipers, micrometer, M. M. Barnes. 346,456, Cane, etc., mill for presssing, J. Murphy. Capstan, S. Montgomery. Car coupling, Brill & Zitzman. Car coupling, Brill & Zitzman. Car coupling, W. J. Rhodes. Car coupling, Westbrook & Cook. Car coupling, C. D. Wooley. Car coupling, D. Zeigler. Carbureting compound, F. W. Burk. Carpet sweeper, W. H. Castle. Carriage screen, W. M. Moore. Carriage screen, W. M. Moore. Carriage screen, W. M. Moore. Cartinge shells, making, W. Lorenz. Carringe machine. E. D. Mackintosh. Cement, making hydraulic, J. Anderson. Chains, ornamenting, W. C. & H. C. Starr. Chair. See Surgical chair.	346,873 346,851 346,852 346,853 346,853 346,633 346,633 346,633 346,933 346,933 346,933 346,853
	Bridges, construction of, C. F. T. Kandeler. Brush, daubing, D. G. Lawrence. Buckle, suspender, J. C. Hyde. Building block, H. A. Daniels. Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran. Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth. Button, F. A. Fox. Button and fastening, E. P. Whitney. Button hook, G. O. Ring. Cables, machine for making and trimming compound wire, G. M. Cruickshank.  Caisson, Hall & Bull.  Calculator, L. M. Carmical.  Calipers, micrometer, M. M. Barnes.  346,456, Cane, etc., mill for presssing, J. Murphy.  Capstan, S. Montgomery.  Car coupling, Brill & Zitzman.  Car coupling, B. Jones.  Car coupling, W. J. Rhodes.  Car coupling, Westbrook & Cook.  Car coupling, Westbrook & Cook.  Car coupling, D. Zeigler.  346,831.  Cars, safety attachment for railway, G. Marston.  Carpureting compound, F. W. Burk.  Carriage screen, W. M. Moore.  Carriage shells, making, W. Lorenz.  Carving machine, E. D. Mackintosh.  Cement, making hydraulic, J. Anderson.  Chair, See Surgical chair.  Chair See Surgical chair.	346,873 346,851 346,852 346,853 346,753 346,85
	Bridges, construction of, C. F. T. Kandeler. Brush, daubing, D. G. Lawrence. Buckle, suspender, J. C. Hyde. Buildings block, H. A. Daniels. Buildings, construction of, S. C. Burris Bung faucet, J. D. Moran. Burner. See Lamp burner. Burner and lamp for mineral oils or their equivalents, G. W. Lyth. Button, F. A. Fox. Button and fastening, E. P. Whitney. Button hook, G. O. Ring. Cables, machine for making and trimming compound wire, G. M. Cruickshank. Caisson, Hall & Bull. Calipers, micrometer, M. M. Barnes. 346,456, Cane, etc., mill for presssing, J. Murphy. Capstan, S. Montgomery. Car coupling, Brill & Zitzman. Car coupling, Brill & Zitzman. Car coupling, W. J. Rhodes. Car coupling, Westbrook & Cook. Car coupling, C. D. Wooley. Car coupling, D. Zeigler. Carbureting compound, F. W. Burk. Carpet sweeper, W. H. Castle. Carriage screen, W. M. Moore. Carriage screen, W. M. Moore. Carriage screen, W. M. Moore. Cartinge shells, making, W. Lorenz. Carringe machine. E. D. Mackintosh. Cement, making hydraulic, J. Anderson. Chains, ornamenting, W. C. & H. C. Starr. Chair. See Surgical chair.	346,873 346,851 346,852 346,853 346,753 346,85