ENGINEERING INVENTION.

A system and apparatus for heating and lighting cars has been patented by Mr. George Smith, of Rochester, N. Y. A compressed air reservoir is connected with a naphtha tank, a pipe from which leads to the heater and lamps for supplying carbureted air, while there is an automatic cut-off by which the Mr. Terence F. Curley, of Brooklyn, N. Y. It consists supply of gas is cut off to prevent danger from fire in of a handled plate having unsharpened edges, one or

AGRICULTURAL INVENTIONS.

A corn harvesting and husking machine has been patented by Mr. John A. Hilbert, of Carroll Iowa. This invention covers an improvement on a former patented invention of the same inventor, the machine cutting the stalks, separating the ears and husking them, and delivering them to a wagon traveling with the machine, while the stalks are placed in a row or a pile on the ground.

A mower has been patented by Messrs. Robley D. Hoke and Isaac A. Harris, of Wessington Dakota Ter. It has an improved driving mechanism, and an adjusting mechanism designed to drive the sickle bar with a sufficient number of strokes to secure a perfect cut of the grain in proportion to the advance of the machine, the machine also having a simple and practical means of adjusting the shoe of the sickle bar

MISCELLANEOUS INVENTIONS.

A button has been patented by Mr. Charles A. Peirce, of Dover, N. J. It is a collar button having attached means for securing and engaging the necktie, and consists in a hinged pointed pin combined with a collar button.

A shoe fastening has been patented by Mr. George H. Coursen, of Baltimore, Md. It is made of a sheet metal strip, bent, and closed for attachment to a shoe or other article of wear to make an eye-like fastening, adapted to receive a lacing cord or shoe string freely through it.

A cement has been patented by Mr. Isaac C. Hatch, of Santa Cruz, Cal. It is made of stated proportions of lime, sand, coralline, and sugar, finely ground and thoroughly mixed, and is said to be particularly well adapted for building heavy walls of

A stove has been patented by Mr. Hans Lindas, of Stoughton, Wis. This invention relates to parlor stoves adapted for heating separate rooms, and wherein provision is made for cooking or baking, and is designed to afford an improved construction in which the smoke is utilized as a heating factor.

A commode has been patented by Mr. William R. Wythe, of Santa Barbara, Cal. This invention covers a novel construction, combination, and arrangement of parts, constituting a commode easily discharged of its contents, not liable to become offensive. and which is protected against freezing.

A coffee pot has been patented by Mr. 15. William Racer, of Harrison, Ark. A funnel with cylindrical lower end and strainer in its bottom is sup16. Engraving of the new U. S. Court House and Post ported inside the pot, in combination with an interior perforated cylinder, holding the ground coffee, affording a pot specially designed for making coffee by per-

An ore jigger has been patented by Mesers, William B. Hodgson and Truman C. Safford, of Lyon Mountain, N. Y. This invention covers an improved screen to facilitate the sizing of wet and dry ores, the screen being convex or conical, and supported directly over the upper end of a hopper by a vertical shaft revolving in the casing.

A rowing apparatus has been patented by Mr. Robert Masay, of Nashville, Tenn. Combined with a frame or support are pivoted bearer plates to which oars are held, the frame having a sliding bar and means for locking the parts in position, with other novel features, whereby boats may be propelled and steered without directly handling the oars

A cut-out for electric light circuits has been patented by Mr. Charles D. Wright, of Petersburg, Ill. It is designed to throw a suitable amount of resistance into the circuit when the current therein becomes abnormal, and before the regulating devices connected with the dynamo can act, thereby avoiding the burning out of the armature of the machine.

A composition for roadways has been patented by Mr. Louis N. Beauchemin, of Hancock, Mich. It is intended for use as a top layer or facing upon other layers of other materials, and is made of specified proportions of black pitch, coal tar, resin copper moulding, stamp sand, and other materials, compounded and applied as described.

A combined school seat and desk has been patented by Mr. Albert Landon, of Rutland, Vt The seat is located in front of the desk, which forms a back for the seat, the seat being adapted to fold up beneath the desk and behind its back, the seat being easily adjustable in and out of position to afford a passageway between rows of desks.

A hand punch has been patented by Mr. William Yates, of New York City. It is for can celing, numbering, dating, or otherwise marking railway tickets, etc., and the invention covers novel features of construction and arrangement of parts, whereby a great variety of combinations for marking and punching may be effected.

A combined freight bucket and truck has been patented by Mr. Louis A. De Mayo, of Jersey City, N. J. This invention provides a novel construction whereby freight may be conveniently carried from one portion of a warehouse to another, wheeled along a dock, or be hoisted from floor to floor, etc., or may be readily dumped from the bucket without moving or

A tool post ring has been patented by Mr. William S. Cobb, of Philadelphia, Pa. The in-

vention consists in a series of three inclined face rings or plates fitted around the tool post and on to the tool block and on each other, and relatively adjusted to give the required set of the tool, making an attachment to tool posts or holders of lathes or shaping machines.

A nail cutter has been patented by both of which are provided with a V-shaped notch, the plate being sharpened at the sides of the notch to adapt it for cutting the ends of the nails, and so the nails may be trimmed without danger of cutting the flesh.

A lemon juice extractor has been patented by Mr. John L. Easley, of New York City. It with patents, trade-marks, etc.; 50,000 in use; large dehas a rotary frame with vertical curved arms or ribs be-mand for extras; established 30 years. Complete plant tween which a lemon may be wedged, with openings by which the skin may be dislodged, and other novel features, whereby the juice extracted will be free from the oil of the skin, and the pulp and seeds will be caught without impeding the flow of the juice.

SCIENTIFIC AMERICAN

BUILDING EDITION.

JULY NUMBER.-(No. 33.)

TABLE OF CONTENTS.

- 1. Elegant plate in colors of a cottage of moderate cost, with floor plans, details, etc.
- 2. Plate in colors, with floor plans, details, etc., for a suburban dwelling. Cost, six thousand dollars.
- 3. Floor plans and perspective view of a suburban cottage erected at Fordham Heights, New York City. Cost, five thousand dollars
- Queen Anne, lately erected at Asbury Park, N. J. Cost, complete, fourteen hundred dollars. Per spective and floor plans.
- 5. Design and floor plans for a carriage house and
- 6. Perspective of an attractive cottage at Jekyl Island, Ga.
- Design for a small cottage costing two thousand dollars. Perspective elevations and floor plans.
- 8. A church at Nashville, Tenn.
- 9. Illustration of the Chapel of Pocito, Mexico.
- 10. Lich gate or cemetery entrance.
- 11. Page of engravings showing some attractive dwellings in Connecticut.
- An attractive cottage lately erected at Asbury Park, N. J., at a cost of eighteen hundred and fifty dollars, complete. Plans and perspective.
- A row of twelve hundred dollar houses lately erected at Kingsbridge, New York City. Plans and perspective.
- 14. Illustration of U.S. Court House and Post Office. Troy, N. Y.
- Design for the new U.S. Court House and Post Office at Williamsport, Pa.
- Office, Chattanooga, Tenn.
- 17. View of the oldest cottage at Asbury Park, N. J. 18. Plans and perspective view of a cozy little seashore cottage lately built at Ocean Grove, N. J. Cost four hundred dollars.
- A modern house built at Asbury Park, N. J., at a cost of two thousand dollars. Plans and perspective.
- 20. Illustration of the new U. S. Court House and Post Office at Oshkosh, Wis.
- Perspective and floor plans for a pleasant cottage to cost from eighteen hundred to two thousand
- A cottage lately built on Monroe Av., Asbury Park, N. J., for one thousand and fifty dollars. Plans and perspective.
- 23. Perspective view of a design for a museum, Pelz and Griebel, architects. Full page engraving.
- 24. Miscellaneous contents: Riche's pantograph, illustrated.-Areas of different parks.-Paint work.-Sawdust.—The chimney shaft.—The age of stars. -Wood that will not blaze.-Bricks of blown glass,-Turning and polishing marble,-Decorative joinery .- Villas and their doorways .- The law of trespass.—Water for household use.—Hydraulic mortars and cements .- The Durango tunnel .- Slate bricks.—Houses in Seville,—Shells as a decorative element.-Ancient and modern mortars.-Treat ment of hardwood floors,-A selection of lilies.-Undesirable town houses.—Richmond's Victor steam heater, illustrated.—Cheap buildings in China,-Improved fans, ventilators, etc., for buildings and for mechanical uses, illustrated.—An economical steam and hot water heating boiler, illustrated.—An improved dumb waiter, illustrated.—A Domestic conveniences possible with a hand force pump, illustrated.-New variety moulder and shaper, illustrated.-How to fit up a recess.-The Boynton furnaces, ranges, and heaters, illustrated.-Cook's new extension beam trammels illustrated.

The Scientific American Architects and Builders Edition is issued monthly. \$2.50 a year. Single copies, 25 cents. Forty large quarto pages, equal to about two hundred ordinary book pages; forming, practically, a large and splendid MAGAZINE OF ARCHITEC-TURE, richly adorned with elegant plates in colors and with fine engravings, illustrating the most interesting examples of Modern Architectural Construction and

The Fullness, Richness, Cheapness, and Convenience of this work have won for it the LARGEST CIRCULATION of any Architectural publication in the world. Sold by all newsdealers.

> MUNN & CO., PUBLISHERS, 361 Broadway, New York.

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.

Wanted-A thoroughly competent vinegar manufacturer. Address (giving particulars as to ability and experience), The Hamilton Vinegar Works Co., Limited, Hamilton, Ontario.

Valuable Manufacturing Business for sale. Wilson Bros. & Co. Telegraph Feed Cutters and Cider Mills, mand for extras; established 30 years. Complete plant for these specialties and general manufacturing business; large foundry. Business, with exclusive rights and patterns, can be bought separate from plant. Commonwealth Trust Co., Harrisburg, Pa.

For the latest improved diamond prospecting drills, address the M. C. Bullock Mfg. Co., 138 Jackson St., Chicago, Ill. Cable address: Bullock, Chicago,

The best Coffee roasters, coolers, stoners, separators, polishers, scourers, glossing apparatus, milling and peaberry machines: also rice and macaroni machinery, are built by The Hungerford Co., 69 Cortlandt Street,

Safety water columns. Cheaper than explosions or burned boilers. For illustrated price list, Reliance Gauge Co., Cleveland, O.

Steam Pipe Covering, Sectional and Plastic. Write for Pamphlet. Jno. A. McConnell & Co., 69 Water St., Pittsburgh, Pa.

The Diamond Prospecting Co., 74 and 76 W. Lake St., Chicago, Ili., general agents for the Sullivan diamond prospecting drills.

Nickel Plating .- Manufacturers of pure nickel an odes, pure nickel salts, polishing compositions, etc. \$100 "Lattle Wonder." A perfect Electro Plating Machine.

Agents of the new Dip Lacquer Kristaline. Complete outsit for plating, etc. Hanson, Van Winkle & Co., Newark, N. J., and 92 and 94 Liberty St., New York,

Perforated metals of all kinds for all purposes. The Robert Aitchis on Perforated Metal Co., Chicago, Ill.

The Railroad Gazette, handsomely illustrated, pubweekly, at 73 Broadway, New copies free. Send for catalogue of railroad books.

The Knowles Steam Pump Works, 113 Federal 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 the single and duplex, steam and power type. This catalogue will be mailed free of charge on application.

Link Belting and Wheels. Link Belt M. Co., Chicago, Iron Planer, Lathe, Drill, and other machine tools of modern design. New Haven Mfg. Co., New Haven, Conn. Presses & Dies. Ferracute Mach. Co., Bridgeton, N. J

The Holly Manufacturing Co., of Lockport, N. Y., will send their pamphlet, describing water works ma-chinery, and containing reports of tests, on application.

Lockwood's Dictionary of Terms used in the practice of Mechanical Engineering, embracing those current in the drawing office, pattern shop, foundry, fitting, turning, smith's and boiler shop, etc., comprising over 6,000 definitions. Edited by a foreman patternmaker. 1888 Price, \$3.00. For sale by Munn & Co., 361 Broadway, New

C. E. Billings' Patent Cutting-off Tools, 7 different blades. Billings & Spencer Co., Hartford, Conn.

We are sole manufacturers of the Fibrous Asbestos Removable Pipe and Boiler Coverings. We make pure as bestos goods of all kinds. The Chalmers-Spence Co., 419 and 425 East 8th Street, New York.

The Improved Hydraulic Jacks, Punches, and Tube Expanders. R. Dudgeon, 24 Columbia St., New York.

Friction Clutch Pulleys. The D. Frisbie Co., N.Y. city. Tight and Slack Barrel Machinery a specialty. John Greenwood & Co., Rochester, N.Y. See illus. adv., p. 28. Rotary veneer basket and fruit package machinery.

I. E. Merritt Co., Lockport, N. Y. For Steam Heating-the Dunning Patent Wrough Over 13,500 in use. Manufactured by New

York Central Iron Works, Geneva, N. Y., U. S. A. Rollstone variety lathe-bores, beads, and turns at the same time. Rolls tone Machine Co., Fitchburg, Mass,

No. 11 planer and matcher. All kinds of woodworking machinery. C. B. Rogers & Co., Norwich, Conn.

Send for new and complete catalogue of Scientific and other Books for sale by Munn & Co., 361 Broadway, New York. Free on application.

NEW BOOKS AND PUBLICATIONS.

ELECTRICAL INSTRUMENT MAKING FOR AMATEURS. By S. R. Bottone. London: Whittaker & Co.; and New York: D. Van Nostrand & Co. 1888. Pp. 183. Price \$1.20.

This new edition, enlarged by a chapter treating o brings this convenient manual up to date. The de scription of the pocket accumulator, practical notes on electro-magnets, etc., are most acceptable. We have already noticed in these columns the first edition. We can only add that we consider it a good augury that a second edition has so soon been called for.

MANAGEMENT OF ACCUMULATORS AND PRIVATE ELECTRIC LIGHT INSTAL LATIONS. By Sir David Salomons, Bart., M.A., A.I.C.E. London: Whittaker & Co. New York: D. Van Nostrand & Co. 1888. Pp. 176. Price \$1.20.

The results of the experience of this distinguished electrician, one who has made the study of electric lighting and home appliances a true labor of love, are in this volume given freely to the public. The work purports to be and is a practical one. No obnoxious quantity of theories and formulas encumber its pages, but what to the practical man is the real meat of the question is given by itself. It is well illustrated, and should be in the hands of every one interested in the Coupling. See Car coupling. Pipe coupling. Thill subject of small electric plants.

coupling.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

July 10, 1888,

AND EACH BEARING THAT DATE.

[See note at end of list about copies of these patents.]

• !		
t	Acetone, manufacture of, G. Rumpf	385,777 386,028
- '	Alarm. See Burglar alarm.	
8 - ;	Album, photograph, H. Boussemaere	
	Alloy of copper, nickel, and gold, D. H. Church	385,909
,	Animal trap, L. Bevers dorf, Jr	
١.	Annunciator, electrical, M. M. Wood	
,	Palmer	386,025
i	Axle, vehicle, E. Firth	
,	Ball curver, base, McKenna & Baker	385,816
	Band cutter and feeder, E. P. Killinger Battery. See Electric battery.	386,01 ″
r	Bed, folding, F. H. Walker	395,736
e	Bedstead s lat lock, R. D. Martin	
,	Bellows, valve for, J. H. Chase	385,999
	Belt shipper, R. H. Hurlbut	
	Bit, countersink, and screwdriver, combined, F.	
i I	B. Carpenter	385,791
	Blacking box, W. K. David	
	E. Tonks	385,829
ָ ו ו	Blowpipe flames, saturator for the production of vapor, F. E. Ives	
• [Board. See Drawing board. Multiple switch	
• :	board. Board of composite material, A. Mack	386,102
e :	Boat. See Life-saving buoy boat. Boat detaching apparatus, A. McCrackin	
	Boiler. See Locomotive boiler.	
.	Boiler, C. Wheat	
۱ ا	Boot and shoe nailing machine, L. Goddu	385,802
ι	Boot, button, F. J. Hastings Boots or shoes, manufacture of counter stiffeners	
:	for, P. Cox	385,746
i	Bottle closure, W. Edmundson	
•	Box. See Blacking box. File box. Sluice box.	
	Tobacco box. Box, J. D. Gris wold	
r	Boxes, manufacturing, F. A. Jones Brake. See Car brake.	386,074
٠.	Brake shoe, F. L. Sheppard	
	Brick masonry, F. W. Gordon	
·	Bridges, cable system for draw, Boegen & Te-	
٠	peorten	
e ¦	Мауо	385,849
- ,	Buckle, C. Kromberg Buckle, harness, J. A. Hollenberger	
0	Burglar alarm, R. H. Umbenhaur	386.045
V	Button, C. A. Peirce	385,784
٠	Button, collar, E. T. Dahlberg	
t	Cable stop, slack, F. B. Graves	
8	Can. See Refrigerating can. Can machine, E. F. Verdel	
e		386.096
	Car brake, I. Nicholson	386,024
•	Car brake, I. Nicholson. Car coupling, C. A. Bond Car coupling, A. P. Brewster	38 6,024 385,994
•	Car coupling, C. A, Bond	386,024 385,994 885,789 386,060
e	Car coupling, C. A, Bond	386,024 385,994 885,789 386,060 385,929 386,012
e '.	Car coupling, C. A, Bond	386,024 385,994 885,789 386,060 385,929 386,012 985,868
e '.	Car coupling, C. A. Bond. Car coupling, A. P. Brews ter. Car coupling, C. W. Deboard. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, F. L. McNab. Car coupling, J. Shultes. Car heater, E. Henn	386,024 385,789 386,060 385,929 386,012 985,868 385,731 385,932
e '.	Car coupling, C. A. Bond. Car coupling, A. P. Brews ter. Car coupling, C. W. Deboard. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, F. L. McNab. Car coupling, J. Shultes.	386,024 385,789 386,060 385,929 386,012 385,986 385,731 385,932 385,917
e 7. 1	Car coupling, C. A, Bond. Car coupling, A. P. Brews ter. Car coupling, C. W. Deboard. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, F. L. McNab. Car coupling, J. Shultes. Car heater, E. Henn Car spring, N. H. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke	386,024 385,994 885,789 386,060 385,929 886,012 985,868 385,731 385,932 385,917 385,918 385,900
	Car coupling, C. A. Bond. Car coupling, A. P. Brews ter. Car coupling, C. W. Deboard. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. Shultes. Car coupling, J. Shultes. Car heater, E. Henn Car spring, N. H. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke Cars by electricity, device for lighting and heat-	386,024 385,994 885,789 386,060 385,929 386,012 985,868 385,731 385,932 385,917 385,918 385,918
e .	Car coupling, C. A, Bond. Car coupling, A. P. Brews ter. Car coupling, C. W. Deboard. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, F. L. McNab. Car coupling, J. Shultes. Car heater, E. Henn Car spring, N. H. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke	386,024 385,994 885,789 386,069 385,929 386,012 385,929 385,731 385,932 385,917 385,918 385,900
e	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, C. W. Deboard. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, F. L. McNab. Car coupling, J. Shultes. Car heater, E. Henn. Car spring, N. H. Davis. Car spring, N. H. Davis. Car starter, R. O. Gercke. Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury.	386,024 385,994 885,789 386,060 385,929 386,012 385,983 385,932 385,931 385,917 385,918 385,900 385,774
e	Car coupling, C. A. Bond. Car coupling, A. P. Brews ter. Car coupling, C. W. Deboard. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. Shultes. Car coupling, J. Shultes. Car heater, E. Henn Car spring, N. H. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith.	386,024 385,949 386,060 385,929 386,062 385,929 385,731 385,932 385,731 385,932 385,918 385,918 385,9774 386,086 385,7774
e	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, C. W. Deboard. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, F. L. McNab. Car coupling, J. Shultes. Car heater, E. Henn. Car spring, N. H. Davis. Car spring, N. H. Davis. Car starter, R. O. Gercke. Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, essette motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler.	386,024 385,994 385,999 386,060 385,929 386,012 385,913 385,932 385,913 385,918 385,918 385,774 386,086 385,7727
e	Car coupling, C. A. Bond. Car coupling, A. P. Brews ter. Car coupling, C. W. Deboard. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, F. L. McNab. Car coupling, J. Shultes. Car spring, N. H. Davis. Car spring, T. C. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler. Cartridge magazines, load indicator for, W. R. Miller.	386,024 385,789 386,060 385,893 386,012 385,929 385,888 385,731 385,918 385,918 385,900 385,774 386,086 385,727 385,881 385,881 385,881
e	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, C. W. Deboard. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, F. L. McNab. Car coupling, J. Shultes. Car heater, E. Henn Car spring, N. H. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler. Cartridge magazines, load indicator for, W. R.	386,024 385,789 386,060 385,929 386,060 385,929 385,932 385,932 385,932 385,931 385,917 385,918 385,974 385,774 386,086 385,727 385,882 385,882 385,882 385,882 385,882
e	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, J. W. Deboard. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. Shultes. Car coupling, J. Shultes. Car spring, N. H. Davis. Car spring, N. H. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler. Cartridge magazines, load indicator for, W. R. Miller. Casket, Gould & Baldwin. Casks and barrels, machine for making, A. Dunbar.	386,024 385,789 385,789 386,060 385,929 385,929 385,921 385,731 385,918 385,918 385,900 385,774 386,086 385,727 385,881 385,881 385,881 385,881
e two e g c	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, C. W. Deboard. Car coupling, J. Helm. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. J. McNab Car coupling, J. J. McNab Car coupling, J. J. McNab Car spring, N. H. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. B. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler. Cartridge magazines, load indicator for, W. R. Miller. Casket, Gould & Baldwin. Casket, Gould & Baldwin. Casks and barrels, machine for making, A. Dunbar. Casting ingots, C. C. Currier.	386,024 385,794 885,789 386,060 385,929 385,829 385,831 385,931 385,931 385,931 385,931 385,931 385,932 385,742 385,820 385,727 385,820 385,742 385,800 385,742 385,800 385,742 385,800 385,742
e	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, J. W. Deboard. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, F. L. McNab. Car coupling, J. Shultes. Car heater, E. Henn Car spring, N. H. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, eystem and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler. Cartridge magazines, load indicator for, W. R. Miller. Casks, Gould & Baldwin. Casks and barrels, machine for making, A. Dunbar. Casting ingots, C. C. Currier. Cement, I. C. Hatch. Chair, W. H. Walker.	386,024 385,994 385,999 386,060 385,929 385,868 385,731 385,932 385,918 385,918 385,974 386,086 385,777 385,882 385,881 385,907 385,882 385,707
e	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, J. W. Deboard. Car coupling, J. Helm. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. J. McNab. Car coupling, J. J. McNab. Car spring, N. H. Davis. Car spring, N. H. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke. Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler. Cartridge magazines, load indicator for, W. R. Miller. Casket, Gould & Baldwin. Casks and barrels, machine for making, A. Dunbar. Casting ingots, C. C. Currier. Cement, I. C. Hatch. Chair, W. H. Walker. Chimney top, A. Herendeen. Chuck and attachment for turning treenails,	386,024 385,794 885,789 386,060 385,929 385,829 385,831 385,932 385,931 385,917 385,918 385,917 385,918 385,774 386,086 385,772 385,822 385,823 385,810 385,810 385,800 385,707
e	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, J. W. Deboard. Car coupling, J. Helm. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. Shultes. Car parties, E. Henn. Car spring, N. H. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, eystem and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler. Cartridge magazines, load indicator for, W. R. Miller. Casket, Gould & Baldwin. Casks and barrels, machine for making, A. Dunbar. Casting ingots, C. C. Currier. Cement, I. C. Hatch. Chair, W. H. Walker. Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming.	386,024 385,794 885,789 386,060 385,929 385,829 385,883 385,931 385,931 385,931 385,931 385,931 385,931 385,931 385,931 385,731 385,881 385,707 385,881 385,707 385,881 385,707 385,860 385,707 385,860 385,793
tt vv ee gg cc., ff	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, J. W. Deboard. Car coupling, J. Helm. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. J. McNab. Car coupling, J. Shultes. Car spring, N. H. Davis. Car spring, N. H. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke. Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler. Cartridge magazines, load indicator for, W. R. Miller. Casket, Gould & Baldwin. Casks and barrels, machine for making, A. Dunbar. Casting ingots, C. C. Currier. Cement, I. C. Hatch. Chair, W. H. Walker. Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole. Churn, J. Ingells.	386,024 385,789 386,000 385,929 386,000 385,929 386,012 385,881 385,917 385,918 385,917 385,918 385,774 386,086 385,7727 385,881 385,8727 385,882 385,8707 385,881 385,942 385,707
	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, J. W. Deboard. Car coupling, J. Helm. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. Shultes. Car spring, J. C. Brewster. Car spring, N. H. Davis. Car spring, T. C. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler. Cartridge magazines, load indicator for, W. R. Miller. Casket, Gould & Baldwin. Casks and barrels, machine for making, A. Dunbar. Casting ingots, C. C. Currier. Cement, I. C. Hatch. Chair, W. H. Walker. Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole.	386,024 385,794 885,789 386,060 385,929 386,060 385,929 385,883 385,937 385,917 385,918 385,917 385,918 385,774 386,086 385,777 385,882 385,872 385,860 385,773 385,860 386,010 385,793 385,696 385,711
	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, J. W. Deboard. Car coupling, J. Helm. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. J. McNab. Car coupling, J. Shultes. Car heater, E. Henn. Car spring, N. H. Davis. Car spring, T. C. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke. Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler. Cartridge magazines, load indicator for, W. R. Miller. Casket, Gould & Baldwin. Casks and barrels, machine for making, A. Dunbar. Casting ingots, C. C. Currier. Cement, I. C. Hatch. Chair, W. H. Walker. Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole. Churn, W. H. H. Spradlin. Churn dasher, J. Davis. Cistern, Miller & Hochstuhl.	386,024 385,789 386,060 385,929 386,060 385,929 385,839 385,731 385,917 385,918 385,917 385,918 385,774 386,086 385,727 385,881 385,800 385,707 385,800 385,714 385,859 385,818 385,714 385,828 385,838 385,714 385,838
ttwee gg cc,	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, J. W. Deboard. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. Shultes. Car heater, E. Henn Car spring, N. H. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler. Cartridge magazines, load indicator for, W. R. Miller. Casket, Gould & Baldwin. Casks and barrels, machine for making, A. Dunbar. Casting ingots, C. C. Currier. Cement, I. C. Hatch. Chair, W. H. Walker. Chinney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole. Churn, J. Ingells. Churn, W. H. Bpradlin. Churn dasher, J. Davis. Cistern, Miller & Hochstuhl. Cistern cleaner, F. E. McNall.	386,024 385,789 386,060 385,929 386,012 385,929 386,012 385,917 385,918 385,918 385,774 386,086 385,7727 385,881 385,842 385,777 385,881 385,942 385,767 385,860 385,773 385,893 385,993 385,993 385,993 385,993 385,993
ttv ee g c.,	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, J. W. Deboard. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. J. McNab. Car coupling, J. Shultes. Car heater, E. Henn. Car spring, N. H. Davis. Car spring, N. H. Davis. Car starter, R. O. Gercke. Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler. Cartridge magazines, load indicator for, W. R. Miller. Casket, Gould & Baldwin. Casks and barrels, machine for making, A. Dunbar. Casting ingots, C. C. Currier. Cement, I. C. Hatch. Chair, W. H. Walker. Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole. Churn, J. Ingells. Churn dasher, J. Davis. Cistern, Miller & Hochstuhl. Cistern Clamp, P. A. Whitney.	386,024 385,789 386,060 385,929 386,012 385,929 386,012 385,917 385,918 385,918 385,774 386,086 385,7727 385,881 385,842 385,777 385,881 385,942 385,767 385,860 385,773 385,893 385,993 385,993 385,993 385,993 385,993
ttv ee g c.,	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, J. W. Deboard. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. Shultes. Car heater, E. Henn Car spring, N. H. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler. Cartridge magazines, load indicator for, W. R. Miller. Casket, Gould & Baldwin. Casking ingots, C. C. Currier. Cement, I. C. Hatch. Chair, W. H. Walker. Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole. Churn, J. Ingells. Churn, W. H. H. Bpradlin. Churn dasher, J. Davis. Cistern diagrams, Sriend.	386,024 385,914 385,919 386,060 385,929 386,060 385,929 385,831 385,917 385,918 385,917 385,918 385,774 385,818 385,777 385,881 385,800 385,777 385,881 385,800 385,707 385,800 385,707 385,800 385,703 385,600 385,703 385,600 385,703 385,600 385,703 385,800 385,800 385,800 385,800 385,800 385,800 385,800 385,800 385,800 385,800 385,800 385,800 385,800 385,800 385,800
twee gg cc, R-w	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, J. W. Deboard. Car coupling, J. Helm. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. J. McNab Car coupling, J. J. McNab Car coupling, J. Shultes. Car spring, N. H. Davis. Car spring, T. C. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler. Cartridge magazines, load indicator for, W. R. Miller. Casket, Gould & Baldwin. Casket, Gould & Baldwin. Casket, Gould & Baldwin. Casting ingots, C. C. Currier. Cement, I. C. Hatch. Chair, W. H. Walker. Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole. Churn, J. Ingells. Churn, W. H. H. Spradlin. Churn dasher, J. Davis. Cistern, Miller & Hochstuhl. Cistern, Glamp, P. A. Whitney. Clamp, P. A. Whitney. Clamp, P. A. Whitney.	386,024 385,789 386,060 385,932 386,012 385,601 385,601 385,731 385,918 385,917 385,918 385,774 386,086 385,7727 385,882 385,877 385,881 385,806 385,707 385,659 385,781 385,659 385,659 385,659 385,696 385,711 385,888 385,713 385,686 385,711 385,888 385,713 385,888 385,713 385,888
ttv ee g c c, f f, nee ee a	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, J. W. Deboard. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. Shultes. Car heater, E. Henn Car spring, N. H. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, esystem and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler. Cartridge magazines, load indicator for, W. R. Miller. Casket, Gould & Baldwin. Casks and barrels, machine for making, A. Dunbar. Casting ingots, C. C. Currier. Cement, I. C. Hatch. Chair, W. H. Walker. Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole. Churn, J. Ingells. Churn, W. H. & Bpradlin. Churn dasher, J. Davis. Cistern (Leaner, F. E. McNall. Clamp, P. A. Whitney. Clasp. See Extension clamp. Clamp, P. A. Whitney. Clap, Teating, S. Friend. Cleaner. See Cistern cleaner. Comb cleaner. Cloth, machine for unwinding, drawing off, and cutting, N. Harris.	386,024 385,789 386,060 385,792 385,692 385,888 385,731 385,918 385,873 385,918 385,774 386,086 385,7727 385,882 385,727 385,881 385,820 385,774 386,860 385,774 385,859 385,783 385,893 385,793 385,893 385,893 385,893 385,893
ttv e g c., = R-vv. ff.,	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, J. W. Deboard. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. J. McNab. Car coupling, J. J. McNab. Car coupling, J. Shultes. Car heater, E. Henn. Car spring, N. H. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke. Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler. Cartridge magazines, load indicator for, W. R. Miller. Casket, Gould & Baldwin. Casks and barrels, machine for making, A. Dunbar. Casting ingots, C. C. Currier. Cement, I. C. Hatch. Chair, W. H. Walker. Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. Ingells. Churn, J. Ingells. Churn, W. H. H. Spradlin. Champ. See Extension clamp. Clamp, P. A. Whitney. Clasp. See Corset clasp. Clay, treating, S. Friend. Cleaner. See Cistern cleaner. Comb cleaner. Cloth, machine for unwinding, drawing off, and cutting, N. Harris. Cock, gas, T. Maguire. Coffee pot, W. Racer.	386,024 385,789 386,060 385,929 386,012 385,929 386,012 385,917 385,918 385,918 385,918 385,774 386,086 385,7727 385,881 385,882 385,8727 385,881 385,942 385,780 385,781 385,893 385,783 385,893 385,793 385,696 385,714 385,893 385,893 385,893 385,793 385,893 385,793 385,893
ttv e g c, - R-v. ff3,-neeea	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, J. W. Deboard. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. J. McNab. Car coupling, J. Shultes. Car heater, E. Henn. Car spring, N. H. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler. Cartridge magazines, load indicator for, W. R. Miller. Casket, Gould & Baldwin. Casking ingots, C. C. Currier. Cement, I. C. Hatch. Chair, W. H. Walker. Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole. Churn, J. Ingells. Churn, W. H. H. Spradlin. Churn dasher, J. Davis. Cistern, Miller & Hochstuhl. Cistern cleaner, F. E. McNall. Clamp, P. A. Whitney. Clasp, See Corset clasp. Clay, treating, S. Friend. Cleaner. See Cistern cleaner. Comb cleaner. Cloth, machine for unwinding, drawing off, and cutting, N. Harris. Cock, gas, T. Maguire. Coffee pot, W. Racer.	386,024 385,784 385,789 386,060 385,292 385,888 385,781 385,918 385,781 385,918 385,774 386,086 385,7727 385,882 385,881 385,881 385,893 385,783 385,893 385,793 385,599 385,793 385,696 385,714 385,899 385,698 385,793 385,696 385,714 385,899 385,983 385,983
ttv e g c, - R-v. ff3,-neeea	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, J. W. Deboard. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. J. McNab. Car coupling, J. J. McNab. Car spring, N. H. Davis. Car spring, N. H. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke. Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler. Cartridge magazines, load indicator for, W. R. Miller. Casket, Gould & Baldwin. Casks and barrels, machine for making, A. Dunbar. Casting ingots, C. C. Currier. Cement, I. C. Hatch. Chair, W. H. Walker. Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. Ingells. Churn, J. Ingells. Churn, W. H. H. Spradlin. Churn dasher, J. Davis. Cistern, Miller & Hochstuhl. Cistern cleaner, F. E. McNall. Clamp, Pe A. Whitney. Clasp, See Corset clasp. Clay, treating, S. Friend. Cleaner. See Cistern cleaner. Comb cleaner. Cloth, machine for unwinding, drawing off, and cutting, N. Harris. Cock, gas, T. Maguire. Coffee pot, W. Racer. Column, plate metal, Mesker & Edwards, S85,762 to	386,024 385,789 386,060 385,912 385,921 385,921 385,931 385,917 385,918 385,917 385,918 385,774 386,086 385,7727 385,881 385,801 385,707 385,859 385,861 385,714 385,890 385,783 385,890 385,783 385,890 385,783 385,890 385,783 385,890 385,793 385,890 385,793 385,890 385,793 385,890 385,793 385,890
tv ee g c', f f f n d	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, J. W. Deboard. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. Shultes. Car heater, E. Henn. Car spring, N. H. Davis. Car spring, N. H. Davis. Car spring, N. H. Davis. Car starter, R. O. Gercke Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith. Cartridge magazines, load indicator for, W. R. Miller. Cartridge magazines, load indicator for, W. R. Miller. Casket, Gould & Baldwin. Casks and barrels, machine for making, A. Dunbar. Casting ingots, C. C. Currier. Cement, I. C. Hatch. Chair, W. H. Walker. Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole. Churn, J. Ingells. Churn, W. H. H. Spradlin. Churn dasher, J. Davis. Cistern, Miller & Hochstuhl. Cistern cleaner, F. E. McNall. Clamp, See Extension clamp. Clamp, P. A. Whitney. Clasp, See Corset clasp. Clay, treating, S. Friend Cleaner. See Cistern cleaner. Comb cleaner. Cloth, machine for unwinding, drawing off, and cutting, N. Harris. Cock, gas, T. Maguire. Coffee pot, W. Racer. Column, plate metal, Mesker & Edwards, 385,762 to Comb cleaner and comb, combined, W. M. Dixon. Cooker, steam, J. W. Davis.	386,024 385,794 385,789 386,060 385,912 385,921 385,912 385,913 385,913 385,918 385,774 385,918 385,777 385,882 385,777 385,881 385,777 385,882 385,777 385,882 385,783 385,783 385,783 385,881 385,783 385,881 385,783 385,881 385,783 385,881 385,783 385,881 385,783 385,881 385,783 385,881 385,783 385,883 385,783 385,883 385,783 385,883 385,783 385,883 385,783 385,883
tv e g c, fig. in d. d.c.	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, J. W. Deboard. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. J. McNab. Car coupling, J. Shultes. Car heater, E. Henn. Car spring, N. H. Davis. Car spring, N. H. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke Carsby electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith. Cartridge magazines, load indicator for, W. R. Miller. Cartridge magazines, load indicator for, W. R. Miller. Casket, Gould & Baldwin. Casks and barrels, machine for making, A. Dunbar. Casting ingots, C. C. Currier. Cement, I. C. Hatch. Chair, W. H. Walker. Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole. Churn, J. Ingells. Churn, W. H. H. Spradlin. Churn dasher, J. Davis. Cistern, Miller & Hochstuhl. Cistern cleaner, F. E. McNall. Clamp, See Extension clamp. Clamp, P. A. Whitney. Clasp, See Corset clasp. Clay, treating, S. Friend Cleaner. See Cistern cleaner. Comb cleaner. Cloth, machine for unwinding, drawing off, and cutting, N. Harris. Cock, gas, T. Maguire. Coffee pot, W. Racer. Column, plate metal, Mesker & Edwards, 385,762 to Comb cleaner and comb, combined, W. M. Dixon. Cooker, steam, J. W. Davis. Cooler. See Beer cooler. Cork extractor, G. W. Engel.	386,024 385,794 385,794 385,793 386,060 385,912 385,802 385,731 385,918 385,917 385,918 385,917 385,918 385,774 386,086 385,7727 385,882 385,8727 385,881 385,800 385,774 385,890 385,793 385,890 385,793 385,893 385,793 385,893 385,780 385,780 385,780 385,780 385,893 385,893 385,893 385,893 385,893 385,893 385,893 385,893 385,893 385,893
ttv e g c., f., e nee a Dr., in d.c.	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, J. Helm. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. J. McNab. Car coupling, J. Shultes. Car heater, E. Henm. Car spring, N. H. Davis. Car spring, T. C. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler. Cartridge magazines, load indicator for, W. R. Miller. Casket, Gould & Baldwin. Casking ingots, C. C. Currier. Cement, I. C. Hatch. Chair, W. H. Walker. Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole. Churn, J. Ingells. Churn, W. H. H. Spradlin. Churn dasher, J. Davis. Cistern, Miller & Hochstuhl. Cistern cleaner, F. E. McNall. Clamp, P. A. Whitney. Clasp, See Corset clasp. Clay, treating, S. Friend Cleaner. See Cistern cleaner. Comb cleaner. Cloth, machine for unwinding, drawing off, and cutting, N. Harris. Cock, gas, T. Maguire. Coffee pot, W. Racer. Coffee pot, W. Racer. Coffee Reservance, W. N. Barrett. Corn from the cob, machine for cutting green, G.	386,024 385,794 385,789 386,060 385,292 385,692 385,693 385,731 385,918 385,918 385,774 386,086 385,7727 385,882 385,881 385,823 385,861 385,760 386,010 385,793 385,899 385,893 385,893 385,780
ttv ee g c, f, dcceks	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, J. W. Deboard. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. J. McNab. Car coupling, J. Shultes. Car heater, E. Henn. Car spring, N. H. Davis. Car spring, N. H. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler. Cartridge magazines, load indicator for, W. R. Miller. Casket, Gould & Baldwin. Casks and barrels, machine for making, A. Dunbar. Casting ingots, C. C. Currier. Cement, I. C. Hatch. Chair, W. H. Walker. Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. Ingells. Churn, J. Ingells. Churn, W. H. H. Spradlin. Churn dasher, J. Davis. Cistern, Miller & Hochstuhl. Cistern cleaner, F. E. McNall. Clamp, See Extension clamp. Clamp, P. A. Whitney. Clasp. See Corset clasp. Clay, treating, S. Friend. Cleaner. See Cistern cleaner. Comb cleaner. Cloth, machine for unwinding, drawing off, and cutting, N. Harris. Cock, gas, T. Maguire. Coffee pot, W. Racer. Column, plate metal, Mesker & Edwards, 385,762 to Comb cleaner and comb, combined, W. M. Dixon. Cooker, steam, J. W. Davis. Cooler. See Beer cooler. Cork extractor, G. W. Engel. Corkscrew, W. N. Barrett. Corn from the cob, machine for cutting green, G.	386,024 385,794 385,794 385,793 386,060 385,912 385,822 385,717 385,918 385,800 385,7727 385,882 385,7727 385,882 385,7727 385,882 385,774 385,880 385,774 385,880 385,775 385,880 385,793 385,893 385,793 385,893 385,793 385,893 385,793 385,893 385,793 385,893 385,793 385,893 385,793 385,893 385,793 385,893 385,793 385,893 385,793 385,893 385,793 385,893
ttv e g c . f . neeea D . n. dcekss,	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, J. Helm. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. J. McNab. Car coupling, J. J. McNab. Car coupling, J. J. McNab. Car spring, N. H. Davis. Car spring, N. H. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler. Cartridge magazines, load indicator for, W. R. Miller. Casket, Gould & Baldwin. Casket, Gould & Baldwin. Casking ingots, C. C. Currier. Cement, I. C. Hatch. Chair, W. H. Walker. Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole. Churn, J. Ingells. Churn, W. H. H. Spradlin. Churn dasher, J. Davis. Cistern, Miller & Hochstuhl. Cistern cleaner, F. E. McNall. Clamp, P. A. Whitney. Clasp, See Corset clasp. Clay, treating, S. Friend Cleaner. See Cistern cleaner. Comb cleaner. Cloth, machine for unwinding, drawing off, and cutting, N. Harris. Cock, gas, T. Maguire. Coffee pot, W. Racer. Column, plate metal, Mesker & Edwards, S85,762 to Corkscrew, W. N. Barrett. Corn from the cob, machine for cutting green, G. L. Merrill. Cortex clasp, M. W. Henius. Cotton gin, P. V. Westfall.	386,024 385,794 385,789 386,060 385,792 385,868 385,731 385,918 385,871 385,918 385,872 385,881 385,882 385,777 385,882 385,881 385,882 385,777 385,882 385,881 385,892 385,783 385,893 385,783 385,893 385,783 385,893 385,783 385,893 385,783 385,893 385,783 385,893 385,783 385,893 385,783 385,893 385,783 385,893 385,783 385,893 385,783 385,893
twee g c, R-w. f, neeea Dr., n. d.ceeks, ed	Car coupling, C. A. Bond. Car coupling, A. P. Brewster. Car coupling, J. Helm. Car coupling, J. Helm. Car coupling, J. G. Hornbarger. Car coupling, J. G. Hornbarger. Car coupling, J. J. McNab. Car coupling, J. Shultes. Car heater, E. Henn. Car spring, N. H. Davis. Car spring, N. H. Davis. Car spring, T. C. Davis. Car starter, R. O. Gercke. Cars by electricity, device for lighting and heating, D. C. Roberts. Cars, driving mechanism for electric railway, E. E. Ries. Cars, electric motor for street, W. S. Salisbury. Cars, system and apparatus for heating and lighting, G. Smith. Carriage, self-propelling, J. F. Sinkler. Cartridge magazines, load indicator for, W. R. Miller. Casket, Gould & Baldwin. Casks and barrels, machine for making, A. Dunbar. Casting ingots, C. C. Currier. Cement, I. C. Hatch. Chair, W. H. Walker. Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole. Churn, J. Ingells. Churn, W. H. H. Spradlin. Churn dasher, J. Davis. Cistern, Miller & Hochstuhl. Cistern cleaner, F. E. McNall. Clamp. See Extension clamp. Clamp, P. A. Whitney. Clasp. See Corset clasp. Clay, treating, S. Friend Cleaner. See Cistern cleaner. Comb cleaner. Cloth, machine for unwinding, drawing off, and cutting, N. Harris. Cock, gas, T. Maguire. Cock, gas, T. Maguire. Coffee pot, W. Racer. Column, plate metal, Mesker & Edwards, 385,762 to Cock gas, T. Maguire. Coffee pot, W. Racer. Column, P. A. Whitney. Clasp. See Corset close Cock, gas, T. Maguire. Cooker, steam, J. W. Davis. Cooker, steam, J. W. Davis. Cooker, steam, J. W. Barrett. Corn from the cob, machine for cutting green, G. L. Merrill. Corn et clasp, M. W. Henius. Cotton gin, P. V. Westfall. Counter stiffeners, mechanism for forming, P.	386,024 385,794 385,789 386,060 385,292 385,888 385,791 385,918 385,918 385,774 386,086 385,777 385,882 385,881 385,891 385,891 385,890 386,010 385,793 385,888