#### RECENTLY PATENTED INVENTIONS. **Electrical Devices**

RAILWAY-SIGNAL. - W. B. SMITH, Redlands, Cal. This invention refers particularly to improvements in signals placed on the cabin or rear car of a train, the object being to provide a signal of novel form and automatically actuated to show approximately the speed at which the train is moving, so that the engineer on a following train may see whether the preceding train is moving fast, medium, or slow and regulate the speed of the following train accordingly, thus avoiding accidents.

CUT-OUT.—C. W. SNYDER, Hudson, N. Y. The object of the invention is to provide means for automatically breaking the circuit through the light some time after an element of the cut-out has been manually operated, or, in other words, to permit the burning of a dim light for a predetermined time after turning the key to break the direct current from the main circuit through the filament. It relates to improvements in cut-out lights and other electrical devices.

### Of Interest to Farmers.

STOCK-FEEDER.-J. J. DOWELL, San Francisco, Cal. Mr. Dowell's invention relates to stock-feeders, his more particular object being to produce a feeder in which the supply of feed is to some extent under the control of the animals to be fed. The inventor finds that animals-such, for instance, as horses-when fed by either of certain devices of the feeder soon learn to manipulate the agitators, so as to control the supply of food at will.

CORN-SILKING MACTINE.—L. S. FLECK-ENSTEIN, Easton, Md. This improved machine combines the two very important qualities of a movement of a screen-holder which effects the rapid passage of the corn through the screens and adaptation for convenient and quick removal of the screens individually while the machine is in operation. Removing and reinsertion of a screen occupies but a few moments. Parts of machine contacting with the corn are preferably galvanized so that they can be easily kept sweet and clean.

THRESHING AND STRAW-CUTTING MA CHINE .- C. J. SMITH, Durham, Canada. The concave is dispensed with in this threshing ma chine. The cylinder is provided with diametrically-opposing diagonally located knives which act in conjunction with ledger-plates and feed-rollers behind the plates and the cylinder not only serves to thresh out the grain, but also to cut the straw in fine par ticles. Means are provided for separating the chopped straw from the grain and for blowing the chopped straw from the machine. One feed-roller automatically moves to or fro from the other, according to thickness of the bed or spread of material, and means provide for controlling the speed of the feed-rollers. The teeth never beat brough more than two inches before the straw is cut off. While it takes twelve to fifteen men to operate a long straw thresher, Mr. Smith's invention requires but

## Of General Interest.

NUT-LOCK. - J. W. GRAEME, Washington, D. C. The invention is an improvement in nut-locks, and particularly in that class of nut-locks in which a pawl carried  $\boldsymbol{\textbf{b}}\boldsymbol{y}$  the nut engages with an abutment. The invention may be applied to right or left-hand nuts, the change necessitating merely a reversal of the pawl.

GATE-HINGE .-- H. MEINECKE, Tomah, Wis In this case the invention is an improvement in hinges for gates and similar heavy objects wherein the weight of the gate or the like exerts a heavy strain upon the hinge; and one of the objects of the present invention is to provide a novel construction whereby the weight of the gate will operate to tighten the hinge in place.

ART OF MAKING PERFORATED PAPER. -F. J. Morz. New York, N. Y. This is a new method particularly intended to produce the perforated sheets used in musical instruments, but it is useful in other connections. Heretofore perforations have been made by cutting or punching them in paper, which involves a loss of paper, an extra expenditure of time and labor, and also materially weakens the sheets. The inventor comprehends forming openings in the paper stock while the same is yet in pulp-like form, and subsequently the stock thus orificed is converted into pa producing the perforated sheet.

CONVEYER. -- A. L. LAUBENSTEIN, Ashland, Pa. This conveyer is such as used for loading coal, iron ore, dirt, and similar material. In practice these conveyers usually comprise endless chains, which are continuously driven and have buckets or blades attached to them for advancing the material. The object is to produce a chain-link of simple construction for uch conveyer especially adapted for attachment to the bucket.

DAM .- J. L. HOLMES, Butte, Mont. The invention relates to metal dams, such as shown and described in the application for Letters Patent of the United States, formerly filed by Mr. Holmes. The present object is to provide a dam for rivers and other waterways to permit of utilizing dammed-up water for use in power plants, for irrigation, and other purposes, the dam being arranged to prevent or retard the corrosive action of water and air on the metalwork of the dam, to properly on the metalwork of the dam, to properly N. J.; EMILY GIFFHORN, Administratrix. The brace the dam and hold it against tipping invention pertains to improvements in the metalwork of the dam, to properly N. J.; EMILY GIFFHORN, Administratrix. The linquiry No. 7176.—For manufacturers of dish-

withdrawn, and to protect it against ice, logs, and other floating matter.

CONCENTERING COUPLING DEVICE FOR PIPE OR CASING SECTIONS.—J. W. Hays, Woodsfield, Ohio. The invention has reference to means for concentering tubular members when coupling together adjacent ends thereof; and one of the principal objects is to overcome many former disadvantages and objections and to provide means whereby the adjacent ends of pipe-sections to be coupled each other, thereby enabling the two sections of pipe to be quickly joined together for use for various purposes.

FURNACE FOR TREATING SHEET IRON AND STEEL.-H. H. GOODSELL, Leechburg, Pa. The present invention has reference to furnaces for treating sheet iron and steel, but more particularly to an improved type of furnace which may be used advantageously in connection with the process described in an allowed application formerly filed by Mr. Good-In this improvement the process is an annealing as well as an oxidizing process.

METALLOPHONE.-F. R. GOOLMAN, Binghamton, N. Y. One purpose of the inventor is to provide an instrument in which the sound-producing devices consist of metal scalebars operated upon by hammers and to so construct it that the hammers will be pneumatically controlled and the pneumatic devices brought into action by connection with a suitable electric motor and to provide means for automatically starting the motor when a coin is dropped, and automatically stopping the instrument when the end of a piece of music or its repeat is reached.

#### Machines and Mechanical Devices.

BINDING-MACHINE FOR WAY-BILLS, ETC.—C. F. McBee, Athens, Ohio More especially this invention has reference to machines for binding together in book form any desired number of paper or other sheets, as way-bills, checks, or the like, and one of the principal objects thereof is to overcome disadvantages and objections common to many other machines devised for similar purposes. The machine may be made of any desired size, and the height of the pile or stacks of sheets to be bound together may be varied within the limits thereof. A leading eastern railroad company is now using the machine at some of its stations.

## Prime Movers and Their Accessories.

SPARK-TIMING DEVICE.—G. A. ELSASSER, Jr., and P. M. Elsasser, Philadelphia, Pa. The invention pertains to a device for timing the electric igniting spark in gas-engines and the like. The objects are to secure in devices of this character simplicity of operation and construction, accuracy in timing, accurate and simple adjustment, small cost of production, compactness, wide range of speeds, and ready adaptability for all kinds of gas, gasoline, and all other explosion engines employing the electric jump-spark for the ignition of gas.

FEED-WATER HEATER.—B. E. EASTBURN and F. L. TAPIA, Montgomery, Ala. The invention consists in a means for introducing boiler-steam into the feed-water between the injector or other means for forcing the feedwater and point of entry of the feed-water into the boiler. This means consists of a pipe leading from the steam-dome to a fitting interposed in the feed-water pipe, and having a valve-controlled connection for the pipe from the steam-dome, so that upon opening the valve of said connection steam is admitted from the dome into the feed-water, serving to raise temperature thereof, and to accelerate its movement into the boiler.

THROTTLE-VALVE.-H. M. LOFTON, Atlanta, Ga. The invention has for an object the provision of a construction whereby a portion of the fed steam or other power fluid may be admitted to a desired point in advance of the passage of the main supply of such power fluid to its point of operation. An advantage is, that by graduating the amount of steam passing through V-shaped ports the main-valve seats are not cut by what is known as "wire-drawn steam," as is the case where an ordinary disk valve is used to regulate the amount of steam fed.

OIL-CONDUCTOR .- J. C. Jones, Tucumcari New Mex. This improvement pertains to feed devices for oil-conveying tubes, and the object is to provide a device that will insure an even and steady flow of oil through a pipe leading from a lubricator to a chamber subject to a variation in pressure—such, for instance, as the steam-chest of a locomotive or engine in which the changes of pressure are not only frequent and constant but often very great.

ROTARY ENGINE.-L. VAN D. SUTTON, West Newton, Pa. Mr. Sutton's invention is an improvement particularly in that class of rotary engines represented by his former patent, and in which cylinders consisting of annular tubes are arranged close together at their lower ends and diverge toward their upper ends, so that they afford space between, them for the operation of a carrier which co-operates with pistons in the form of long curved cylindrical bodies and operating in the cylinders.

SLIDE-VALVE FOR STEAM-ENGINES.-I. J. W. II. GIFFHORN, deceased, Spotswood, N. J.; EMILY GIFFHORN, Administratrix. The

over in an upstream direction when water is slide-valve of steam-engines; and the objects are to remove or counteract the well-known defects of the slide-valve as it now exists namely, the unevenness of the valve and the valve-seat resulting from wear-and thereby to prevent and remove the effects caused by the unevenness, such as loss of steam, coal, or other fuel, machinery and money. slide-valve is self-regrinding.

STEAM-BOILER .- C. A. STURM, Castlerock. Wash. In this patent the object of the inventor is to provide a new and improved steamtogether may be concentered with relation to boiler which is simple and durable in construction, cheap to manufacture, and arranged to utilize the burning fuel to the fullest advantage and with a view to generate steam quickly and very economically.

> Note .-- Copies of any of these patents will be furnished by Munn & Co. for ten cents each. Please state the name of the patentee, title of the invention, and date of this paper.

## Business and Personal Wants.

READ THIS COLUMN CAREFULLY.—You will find inquiries for certain classes of articles numbered in consecutive order. If you manufacture these goods write us at once and we will send you the name and address of the party desiring themformation. In every case it is necessary to give the number of the inquiry.

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Marine Iron Works. Chicago. Catalogue free

Inquiry No. 7151.—For manufacturers of springs wound by a key and run for five or ten minutes.

For heisting engines. J. S. Mundy, Newark, N. J.

Inquiry No. 7152.—For manufacturers of low ressure condensing engines of 4 to 10 h. p., suitable for riving a ventilating fan in public school buildings.

"U. S." Metal Polish. Indianapolis. Samples free. Inquiry No. 7153.—For manufacturers of machine for cutting tub butter into one pound prints.

2d-handmachinery. Walsh's Sons & Co., Newark, N.J. Inquiry No. 7154.—For manufacturers of chain-making machinery, suitable for modern chain works.

Perforated Metals, Harrington & King Perforating Co., Chicago.

Inquiry No. 7155.—For manufacturers of colored narble for decorative purposes.

Handle & Spoke Mchy. Ober Mfg. Co., 10 Bell St., Chagrin Falls, O.

Inquiry No. 7156.—For manufacturers of machine for burning impressions on wood and leather.

Sawmill machinery and outfits manufactured by the Lane Mfg. Co.. Box 13, Montpelier, Vt.

Inquiry No. 7157.—For manufacturers of small toys.

Marketers of meritorious inventions and specialties throughout the world. Tatem Mfg. Co., Buffalo, N. Y. Inquiry No. 7158.—For manufacturers of roller skates.

I sell patents. To buy them on anything, or having one to sell, write Chas. A. Scott, 715 Mutual Life Building, Buffalo, N. Y.

Inquiry No. 7159.—For manufacturers of endless canvas aprons.

The celebrated "Hornsby-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Machine Company Foot of East 138th Street, New York.

Inquiry No. 7160.—For manufacturers of bakery machinery.

Gut strings for Lawn Tennis, Musical Instruments and other purposes made by P. F. Turner, 46th Street and Packers Avenue, Chicago, Ill.

Inquiry No. 7161.-For manufacturers of chain

Sheet metal. any kind, cut, formed any shape. Diemaking, wire forming, embossing, lettering, stamping punching. Metal Stamping Co., Niagara Falls, N. Y. Inquiry No. 7162.—For manufacturers of "Yale Metal Polish."

Manufacturers of patent articles, dies, metal stamp-

ing, screw machine work, hardware specialties, wood fiber machinery and tools. Quadriga Manufacturing Company, 18 South Canal Street. Chicago.

Inquiry No. 7:63.—Wanted, address of Sterling Water Tube Boiler Co.

Absolute privacy for inventors and experimenting. A well-equipped private laboratory can be rented on moderate terms from the Electrical Testing Laboratories, 548 East 80th St., New York. Write to-day.

Inquiry No. 7164.—For manufacturers of apparatus for Turkish, Russian, vapor, electric and spray

WANTED.—Thoroughly experienced practical ice machine—and Corliss engine salesman for concern in middle West. State experience, age and salary expected. Address Salesman, Box 773 N. Y.

Inquiry No. 7165.—For manufacturers of machinery for making muriatic or hydrochloric acid.

PATENTS ON DREDGES AND DREDGING MACHINERY FOR SALE.—By reason of the death of Ralph R. Osgood, valuable patents, having a long term to run, are offered for sale. For terms communicate with

The Albany Trust Company, Executor, Albany, N. Y.

Inquiry No. 7166.—For manufacturers of flat headed tacks.

Inquiry No. 7167.—For manufacturers of steel strings for musical instruments.

Inquiry No. 7168.—For manufacturers of gas-making machines.

Inquiry No. 7169.—For manufacturers of glass, cheep watches, jewelry and cheap phonographs; also address of jobbers who supply mail order firms.

Inquiry No. 7170.—Wanted, address of company sinking deep wells.

Inquiry No. 7171.-For manufacturers of small gears, suitable for small clocks.

Inquiry No. 7172.—For manufacturers of electrically welled wire hoops or bands for wooden pails or Inquiry No. 7173.—Wanted, address of any who are experimenting in new insulators or substitute for

Inquiry No. 7174. -For manufacturers of novelties and patented articles, such as shear sharpeners etc.

Inquiry No. 7175.—For manufacturers of differential plyers.



MINIS 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 answers should give

References to former articles or answers should give date of paper and page or number of question. Inquiries not answered in reasonable time should be repeated; correspondents will bear in mind 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.

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addresses of houses manually the same.

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

Books referred to promptly supplied on receipt of price.

price.

Minerals sent for examination should be distinctly marked or labeled.

(9730) E. H. B. asks: Can you tell me magnetic variation for North Dakota for this year and following three? A. The magnetic declination for North Dakota is given in the tables published by the United States Geodetic and Coast Survey for 1902 as from 10 deg. 32 min. E. at Grand Forks to 16 deg. 55 min. E. on the Canada boundary in 103 deg. 30 min. west longitude. There is a large difference between the eastern and western parts of the State. .The rate of change for the State is 4 min. decrease per annum. The tables to which we refer give the variation at many places in the State. As you do not give your county, we cannot give more definite information. If you are in Lamoure County, the variation was 12 deg. 24 min. in 1902,

(9731) G. J. B. writes: In your

Notes and Queries of April 1, 1905 (No. 9594), you say that the curvation of the earth is 8 inches for one mile and 32 for two miles. This is right (approximately) when running an east-and-west level but ceases to be true when running north and south, or else the doctrine that the north-and-south axis of the earth is 26 miles shorter than the east-andwest axis must be false. It is easily evident that if you run a level starting from a given point on the equator and running west through 90 deg. of arc with 8 inches allowance for each mile and should then start at the same place on the equator and run north through 90 deg. of arc, you would come out up in the air at the north pole. This would be equally true if you run the same levels with equal fore and back sights. A true instrumental level is a series of short chords whose ends are equidistant from the center of the earth, and paradoxical as it may seem, a true level is a true circle. It is literally true that the Mississippi River runs up hill, else its mouth could not be farther from the earth's center than the source. It is also true that no river of the same levels could exist in an east and west course, unless its source was underground and it should rise gradually to the surface. The levels of the Amazon River are most decidedly different from the Mississippi. A. Definitions are the safeguards of a discussion. Unless words are used in the same sense by both sides to an argument a discussion is not profitable. And when you state that "an east-and-west level is not the same as a north-and-south level" and that "the Misissippi River literally runs up hill" it is evident that the terms "level" and "up hill" need definition. We cannot agree to either expression in the sense in which the dictionary requires us to use terms. If we define level, probably the term up hill will take care of itself, since it must be defined as departing from a level by rising above it. The Century Dictionary, which is usually considered as good authority, defines a level as "an imaginary surface everywhere perpendicular to the plumb line, or line of gravity, so that it might be the surface of a liquid at rest. Every such surface is approximately that of an oblate spheroid, as the sea level, for example, is." This seems very plain. We cannot think that anyone would maintain that the sea from the latitude of the source of the Mississippi to that of its mouth is uphill, yet if the river flows uphill surely the sea also flows uphill, and a ship sails uphill in the northern hemisphere here, as it sails south. A level is not a surface quidistant from the center of the earth, and is never defined as such. That would not be a level. Water would not lie upon such a surface, and a level run north and south does not differ from one run east and west. It is nonsense to say that a level is run differently in one direction from what is done in another. The only difference is that centrifugal force acts to modify the level north and south, but the liquid of a level, the ship on the sea and the waters of the flowing rivers, all are sensible to the action of this force all the time and everywhere. A level is the surface of still water, and the water of a south-flowing river at its source in the northern hemisphere is above the level of its mouth, and the water of this river flows down bill from its source to its mouth.

(9732) W. C. W. asks: Are there at present any annunciators which have one wire only running from the push buttons to the indicator? A. We do not see how there can be any possible way to wire for several pushes on an annunciator so as to ring from several

places by a single line wire, as shown in your sketch. There is jone on the market at present | which ring in this way. One wire must be carried entirely around the circuit, and a wire must also go from each push to the annunciator.

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gusson & Sheppy Carbureters, oil feed for, B. A. Guy Card, tag, and the like holder, W. E. Ellis. Carding machine silver condenser, J. Florence Carpenter's gage for settling hinges, N. A. Carping Carpet raveling machine, F. H. Wilms. Cartridge, W. Cohen Cash carrier apparatus, Chamberlain & Chism Centering frame, P. R. Burton Centrifugal machine, W. S. McKinney Chain. See Convertible chair. Chair. See Convertible chair. Chairing apparatus, T. F. & J. G. Witherbee T.76,783, Check holder, registering, G. M. Bradt. Cheese making machine, C. H. Southard.	796,712 796,719 796,839 796,837 796,487 796,898 796,898 796,895 796,796 796,784 796,784 796,784
gusson & Sheppy Carbureters, oil feed for, B. A. Guy Card, tag, and the like holder, W. E. Ellis. Carding machine silver condenser, J. Florence Carpenter's gage for setting hinges, N. A. Carping Carpet beater, M. P. Hayward Carpet raveling machine, F. H. Wilms. Cartridge, W. Cohen Cash carrier apparatus, Chamberlain & Chism Centering frame, P. R. Burton. Centrifugal machine, W. S. McKinney. Chain making machine, E. Lelong Chair. See Convertible chair. Charging apparatus, T. F. & J. G. Witherbee 756,783, Check holder, registering, G. M. Bradt Churn, C. S. Waybright Churn, J. S. Leake	796,712 796,439 796,839 796,837 796,896 796,896 796,895 796,895 796,759 796,817 796,887 796,877
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gusson & Sheppy Carbureters, oil feed for, B. A. Guy. Card, tag, and the like holder, W. E. Ellis. Carding machine silver condenser, J. Florence Carpenter's gage for setting hinges, N. A. Carping Carpet beater, M. P. Hayward Carpet raveling machine, F. H. Wilms. Cartridge, W. Cohen Cash carrier apparatus, Chamberlain & Chism Centering frame, P. R. Burton Centringal machine, W. S. McKinney. Chain See Convertible chair. Chair, See Convertible chair. Chair, See Convertible chair. Checke making machine, C. H. Southard. Chewholder, registering, G. M. Bradt. Cheven, C. S. Waybright Churn, C. S. Waybright Churn, J. S. Leake Chute, J. Koller Cigar box branding machine, C. S'utz. Circuit closer, extension, J. R. Hershey. Circuit controller, H. B. Wilson.	796,712 796,739 796,839 796,487 796,895 796,895 796,895 796,895 796,895 796,895 796,816 796,784 796,627 796,687 796,651 796,512 796,512 796,687
gusson & Sheppy Carbureters, oil feed for, B. A. Guy. Card, tag, and the like holder, W. E. Ellis. Carding machine silver condenser, J. Florence Carpenter's gage for setting hinges, N. A. Carping Carpet raveling machine, F. H. Wilms. Cartridge, W. Cohen Cash carrier apparatus, Chamberlai & Chism Centering frame, P. R. Burton. Centringal machine, W. S. McKinney. Chain making machine, E. Lelong. Chair, See Convertible chair. Charging apparatus, T. F. & J. G. Witherbee	796,712 796,739 796,839 796,896 796,896 796,896 796,896 796,896 796,897 796,897 796,671 796,671 796,671 796,671 796,687 796,687 796,687
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gusson & Sheppy Carbureters, oil feed for, B. A. Guy Card, tag, and the like holder, W. E. Ellis. Carding machine silver condenser, J. Florence Carpenter's gage for setting hinges, N. A. Carping Carpet beater, M. P. Hayward. Carpet raveling machine, F. H. Wilms. Cartridge, W. Cohen Cash carrier apparatus, Chamberlain & Chism Centering frame, P. R. Burton. Centrifugal machine, W. S. McKinney. Cham making machine, E. Lelong Chair. See Convertible chair. Charging apparatus, T. F. & J. G. Witherbee 756,783, Check holder, registering, G. M. Bradt. Churn, C. S. Waybright Churn, J. S. Leake Chute, J. Koller Cigar box branding machine, C. S. Sutz. Circuit controller, H. B. Wilson. Circuit controller, H. B. Wilson. Circuit controller, time limit, E. M. Hew- lett Clamp, J. Herr Clock, electric, R. Carlsteat Cloth rubbing and glazing machine, H. Simonin Clottet line fastener, S. A. Hall. Clutch, friction, C. O. Wood.	796,712 796,329 796,837 796,887 796,887 796,888 796,750 796,816 796,827 796,827 796,827 796,827 796,827 796,837 796,637 796,635 796,701 796,946 796,9646 796,988
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gusson & Sheppy Carbureters, oil feed for, B. A. Guy Card, tag, and the like holder, W. E. Ellis. Carding machine silver condenser, J. Florence Carpenter's gage for setting hinges, N. A. Carping Carpet beater, M. P. Hayward Carpet raveling machine, F. H. Wilms. Cartridge, W. Cohen Cash carrier apparatus, Chamberlan & Chism Centering frame, P. R. Burton. Centering frame, P. R. Burton. Centering al machine, W. S. McKinney Chain making machine, E. Lelong Chair. See Convertible chair. Charging apparatus, T. F. & J. G. Witherbee Cheese making machine, C. H. Southard. Churn, J. S. Leake Churn, J. S. Leake Churn, J. S. Leake Churn, J. S. Leake Circuit controller, thermostatic, H. A. Fiske Circuit controller, time limit, E. M. Hew- lett Clamp, J. Herr Clock, electric, R. Carlstedt Cloth rubbing and glazing machine, H. Simonin Clother line fastener, S. A. Hall Clutch, friction, C. O. Wood. Coat and hat hanger, folding pocket, J. H. Clark Coil, Ruhmkorff, J. McIntyre Collar, detachable overcoat, I. M. Savitt.	796,712 796,739 796,836 796,896 796,896 796,896 796,896 796,896 796,896 796,897 796,627 796,627 796,627 796,627 796,627 796,635 796,636 796,636 796,636 796,636 796,636 796,636 796,896 796,896 796,896 796,896
gusson & Sheppy Carbureters, oil feed for, B. A. Guy Card, tag, and the like holder, W. E. Ellis. Carding machine silver condenser, J. Florence Carpenter's gage for setting hinges, N. A. Carping Carpet beater, M. P. Hayward Carpet raveling machine, F. H. Wilms. Cartridge, W. Cohen Cash carrier apparatus, Chamberlain & Chism Centering frame, P. R. Burton. Centering frame, P. R. Burton. Centering apparatus, Chamberlain & Centering apparatus, T. F. & J. G. Witherbee Chair. See Convertible chair. Charging apparatus, T. F. & J. G. Witherbee Chees making machine, C. H. Southard Churn, C. S. Waybright Churn, J. S. Leake Chute, J. Koller Cigar box branding machine, C. S'utz. Circuit closer, extension, J. R. Hershey. Circuit controller, H. B. Wilson Circuit controller, thermostatic, H. A. Fiske Circuit controller, thermostatic, H. A. Fiske Circuit controller, time limit, E. M. Hew- lett Clamp, J. Herr Clock, electric, R. Carlstedt Cloth rubbing and glazing machine, H. Simonim Clothet line fastener, S. A. Hall Clutch, friction, C. O. Wood. Coat and hat hanger, folding pocket, J. H. Clark Coil, Ruhmkorft, J. McIntyre Collar, detachable overcoat, I. M. Savitt. Collar shield, horse, C. A. Reyling. Combination lock, J. Graf Combination lock, J. Graf Combination and C. A. Hankowsty	796,712 796,739 796,830 796,896 796,896 796,896 796,896 796,896 796,896 796,897 796,712 796,529 796,712 796,687 796,712 796,687 796,712 796,896 796,796 796,896 796,896 796,886
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gusson & Sheppy Carbureters, oil feed for, B. A. Guy. Card, tag, and the like holder, W. E. Ellis. Carding machine silver condenser, J. Florence. Carpenter's gage for setting hinges, N. A. Carping Carpet beater, M. P. Hayward. Carpet raveling machine, F. H. Wilms. Cartridge, W. Cohen Cash carrier apparatus, Chamberlain & Chism Centering frame, P. R. Burton. Centrifugal machine, W. S. McKinney. Chain making machine, E. Lelong. Chair. See Convertible chair. Charging apparatus, T. F. & J. G. Witherbee. 756,783, Check holder, registering, G. M. Bradt. Churn, C. S. Waybright Churn, J. S. Leake Chute, J. Koller Cigar box branding machine, C. S. Sutz. Circuit controller, H. B. Wilson. Circuit controller, H. B. Wilson. Circuit controller, time limit, E. M. Heweltett Clamp, J. Herr Clock, electric, R. Carlstedt Cloth rubbing and glazing machine, H. Simonim Clothet line fastener, S. A. Hall Clutch, friction, C. O. Wood. Coat and hat hanger, folding pocket, J. H. Clark Collar, detachable overcoat, I. M. Savitt. Collar shield, horse, C. A. Reyling. Combination lock, J. Graf Combustion motor, A. Houkowsky Commode, chair, J. Burke Composite board, H. F. Watson Concerte mixer, W. B. Martin Conveyer, E. A. Thomas Conveyer, E. A. Thomas Conveyer, E. A. Thomas Conveyer, E. A. Thomas	796,712 796,719 796,832 796,837 796,882 796,895 796,750 796,895 796,750 796,816 796,827 796,827 796,827 796,520 796,520 796,520 796,520 796,520 796,520 796,701 796,402 796,886 796,701 796,886 796,702 796,886 796,762 796,886 796,762 796,886 796,762 796,886 796,762 796,886 796,762 796,886 796,762 796,886 796,762 796,886 796,762 796,886 796,762 796,886 796,762 796,886 796,545 796,54
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gusson & Sheppy Carbureters, oil feed for, B. A. Guy Card, tag, and the like holder, W. E. Ellis. Carding machine silver condenser, J. Florence Carpenter's gage for setting hinges, N. A. Carping Carpet beater, M. P. Hayward Carpet raveling machine, F. H. Wilms. Cartridge, W. Cohen Cash carrier apparatus, Chamberlain & Chism Centrifugal machine, W. S. McKinney. Chair. See Convertible chair. Charging apparatus, T. F. & J. G. Witherbee Ghair. See Convertible chair. Charging apparatus, T. F. & J. G. Witherbee Ghair. See Convertible chair. Chesse making machine, C. H. Southard. Churn, C. S. Waybright Churn, J. S. Leake Chute, J. Koller Cigar box branding machine, C. S. Sutz. Circuit controller, H. B. Wilson Circuit controller, H. B. Wilson Circuit controller, thermostatic, H. A. Fiske Circuit controller, time limit, E. M. Hew- lett Clamp, J. Herr Clock, electric, R. Carlstedt Cloth rubbing and glazing machine, H. Simonin Clothet line fastener, S. A. Hall Clutch, friction, C. O. Wood Coat and hat hanger, folding pocket, J. H. Clark Coil, Ruhmkorff, J. McIntyre Collar, detachable overcoat, I. M. Savitt. Collar shield, horse, C. A. Reyling. Combustion motor, A. Houkowsky Commode, chair, J. Burke Composite board, H. F. Watson Concentrating table, T. F. Sheridan Concrete foundations for gas tanks or other concrete walls, centering for, R. Deeves Concrete mixer, W. B. Martin Conveyer, E. A. Thomas Conveyer, E. P. Haying.	796,712 796,719 796,837 796,883 796,896 796,897 796,897 796,898 796,876 796,877 796,687 796,687 796,512 796,687 796,512 796,687 796,687 796,687 796,784 796,784 796,784 796,895
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Carbureters, oil feed for, B. A. Guy. Card, tag, and the like holder, W. E. Ellis. Carding machine silver condenser, J. Florence. Carpenter's gage for setting hinges, N. A. Carping Carpet beater, M. P. Hayward. Carpet raveling machine, F. H. Wilms. Cartridge, W. Cohen Cash carrier apparatus, Chamberlain & Chism Centering frame, P. R. Burton. Centrifugal machine, W. S. McKinney. Chair. See Convertible chair. Charging apparatus, T. F. & J. G. Witherbee Chair. See Convertible chair. Charging apparatus, T. F. & J. G. Witherbee Check holder, registering, G. M. Bradt. Check holder, registering, G. M. Bradt. Choun, C. S. Waybright Churn, J. S. Leake Chute, J. Koller Cigar box branding machine, C. S'utz. Circuit controller, H. B. Wilson. Circuit controller, H. B. Wilson. Circuit controller, thermostatic, H. A. Fiske Circuit controller, time limit, E. M. Hewelett Clamp, J. Herr Clock, electric, R. Carlstedt Cloth rubbing and glazing machine, H. Simonim Clothet line fastener, S. A. Hall. Clutch, friction, C. O. Wood. Coat and hat hanger, folding pocket, J. H. Clark Collar, detachable overcoat, I. M. Savitt. Collar shield, horse, C. A. Reyling. Combination lock, J. Graf. Combination motor, A. Houkowsky Commosite board, H. F. Watson Concenterating table, T. F. Sheridan Concentrating table, T. F. Sheridan Concenteritie chair, E. L. Thompson Conveyer, E. A. Thomas Conveyer, Cargo, C. H. Anderson Core bar, G. H. Adam Core making machine, C. D. Schroeder Corn husking apparatus, green, G. Weiss. Corset, apparel, D. Kops Corton pink, F. Phelps T96, 861, Botton picking machine, P. P. Haring, Coupling, J. Johnston Craae, Hoffman & Namet Craae, Hoffman & Namet Craae, H. H. Cummer Crate or box, folding, S. J. Brown Crate structure, E. F. Hulbert Creasing or indenting derice, H. G. Razall Cross tie and rail fastening, metal, C. D. Paxson Cultivator attachment, Staf	796,712 796,719 796,837 796,896 796,896 796,896 796,896 796,896 796,897 796,896 796,685 796,687 796,687 796,897
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gusson & Sheppy Carbureters, oil feed for, B. A. Guy Cardureters, oil feed for, B. A. Guy Cardureters, oil feed for, B. A. Guy Cardureters gage for setting hinges, N. A. Carping Carpet beater, M. P. Hayward Carpet raveling machine, F. H. Wilms. Cartridge, W. Cohen Cash carrier apparatus, Chamberlain & Chism Centering frame, P. R. Burton. Centrifugal machine, W. S. McKinney. Chain. See Convertible chair. Charging apparatus, T. F. & J. G. Witherbee G. T. S. C. Witherbee Chair. See Convertible chair. Cheek holder, registering, G. M. Bradt. Churn, C. S. Waybright Churn, J. S. Leake Chute, J. Koller Cigar box branding machine, C. H. Southard. Churn, J. S. Leake Chute, J. Koller Cigar box branding machine, C. S. Lutz. Circuit controller, H. B. Wilson. Circuit controller, H. B. Wilson. Circuit controller, thermostatic, H. A. Fiske Circuit controller, time limit, E. M. Hew- lett Clamp, J. Herr Clock, electric, R. Carlstedt Cloth rubbing and glazing machine, H. Simonin Clothet line fastener, S. A. Hall Clutch, friction, C. O. Wood. Coat and hat hanger, folding pocket, J. H. Clark Coil, Ruhmkorff, J. McIntyre Collar shield, horse, C. A. Reyling. Combination lock, J. Graf Combustion motor, A. Houkowsky Commode, chair, J. Burke Concerte foundations for gas tanks or other concrete walls, centering for, R. Deeves Concrete mixer, W. B. Martin Conveyer, E. A. Thomas Conveyer, E. P. Hulbert Creasing or indenting device, H. G. Razall Cross ti	796,712 796,719 796,839 796,896 796,896 796,897 796,896 796,897 796,897 796,685 796,686 796,512 796,681 796,681 796,701 796,681 796,701 796,894
Carbureters, oil feed for, B. A. Guy Cardureters, oil feed for, B. A. Guy Cardureters, oil feed for, B. A. Guy Carding machine silver condenser, J. Florence Carpenter's gage for setting hinges, N. A. Carping Carpet beater, M. P. Hayward Carpet raveling machine, F. H. Wilms. Cartridge, W. Cohen Cash carrier apparatus, Chamberlain & Chism Centering frame, P. R. Burton. Centrifugal machine, W. S. McKinney Chain making machine, E. Lelong Chair. See Convertible chair. Charging apparatus, T. F. & J. G. Witherbee Ghair. See Convertible chair. Cheek holder, registering, G. M. Bradt Churn, C. S. Waybright Churn, J. S. Leake Chute, J. Koller Cigar box branding machine, C. H. Southard. Churn, J. S. Leake Chute, J. Koller Cigar box branding machine, C. S. Sutz. Circuit controller, H. B. Wilson. Circuit controller, thermostatic, H. A. Fiske Circuit controller, the B. Wilson. Circuit controller, the Collar of the	796,712 796,713 796,832 796,883 796,885 796,886 796,885 796,885 796,812
gusson & Sheppy Carbureters, oil feed for, B. A. Guy Cardureters, oil feed for, B. A. Guy Cardureters, oil feed for, B. A. Guy Cardureters, oil feed for, B. A. Guy Carding machine silver condenser, J. Florence Carpenter's gage for setting hinges, N. A. Carpet beater, M. P. Hayward Carpet raveling machine, F. H. Wilms. Cartridge, W. Cohen Cash carrier apparatus, Chamberlain & Chism Cantering frame, P. R. Burton Centrifugal machine, W. S. McKinney Cham making machine, E. Lelong Chair. See Convertible chair. Charging apparatus, T. F. & J. G. Witherbee Mitherbee Mitherbee Mitherbee Machine, C. H. Southard. Churn, C. S. Waybright Churn, J. S. Leake Chute, J. Koller Cigar box branding machine, C. S. Sutz. Circuit controller, H. B. Wilson Circuit controller, H. B. Wilson Circuit controller, time limit, E. M. Hews- lett Clamp, J. Herr Clock, electric, R. Carlstedt Cloth rubbing and glazing machine, H. Simonin Clothet line fastener, S. A. Hall Clothet, Friction, C. O. Wood Coat and hat hanger, folding pocket, J. H. Clark Collar, detachable overcoat, I. M. Savitt. Collar shield, horse, C. A. Reyling Combination lock, J. Graf Combustion motor, A. Houkowsky Commonite board, H. F. Watson Concerte foundations for gas tanks or other concrete mixer, W. B. Martin Concerte foundations for gas tanks or other concrete mixer, W. B. Martin Conveyer, C. A. Thomas Conveyer, C. A. Thomas Conveyer, Cargo, C. H. Anderson Core bar, G. H. Adam Core making machine, C. D. Schooder. Cora horisking machine, C. D. Schooder. Cora husking apparatus, green, G. Weiss. Corrolling, J. Johnston Crane, Hoffman & Namet Crate, H. H. Cummer Crate or box, folding, S. J. Brown Crate structure, E. F. Hulbert Creasing or indenting device, H. G. Razall Cross tie and rail fastening, metal, C. D. Paxson Uttivator attachment, Stafford & Baxter. Current distributing apparatus, alternating, A. F. Berry Current motor, F. M. Cummings Curtain pole, G. W. Grace Cushiens or similar articles, border for, A. C. Buschner Cusping, G. H. Roeder Derrick, O. F. Stelman Distanc	796, 712 796, 713 796, 837 796, 837 796, 887 796, 888 796, 796 796, 784 796, 887 796, 812 796, 512 796, 512 797, 797, 797, 797, 797, 797, 797, 797,
Car door, metal, J. M. Hopkins Car lighting, electric, J. F. McElroy Car replacer, J. W. Hood Car sign turning device, electric, J. M. Sanith Carbureter, C. M. Beckeven Carbureter, C. M. Beckeven Carbureter, C. M. Beckeven Carbureter, G. M. Beckeven Carbureter, Of feed for, B. A. Guy Carveters, oil feed for, B. A. Guy Card, tag, and the like holder, W. E. Ellis. Carding machine silver condenser, J. Florence Carpenter's gage for setting hinges, N. A. Carping Carpet beater, M. P. Hayward Carpet raveling machine, F. H. Wilms. Cartridge, W. Cohen Cash carrier apparatus, Chamberlain & Centering frame, P. R. Burton Centrifugal machine, W. S. McKinney Chair. See Convertible chair. Charging apparatus, T. F. & J. G. Witherbee Chure, J. Koller Churn, C. S. Waybright Churn, J. S. Leake Chute, J. Koller Cigar box branding machine, C. S. utz. Circuit controller, H. B. Wilson Circuit controller, thermostatic, H. A. Fiske Circuit controller, the limit, E. M. Hew- lett Clamp, J. Herr Clock, electric, R. Caristedt Colth rubbing and glazing machine, H. Simonin Clother line fastener, S. A. Hall Clutch, friction, C. O. Wood Coat and hat hanger, folding pocket, J. H. Clark Coil, Ruhmkorff, J. McIntyre Collar, detachable overcoat, I. M. Savitt. Collar shield, horse, C. A. Reyling. Combination lock, J. Graf Combination lock, J. Graf Combination lock, J. Graf Combination lock, J. Graf Combination for A. Houkowsky Commoste board, H. F. Watson Concerte mixer, W. B. Martin Concerte foundations for gas tanks or other concerte mixer, W. B. Martin	796, 712 796, 713 796, 837 796, 837 796, 882 796, 756 796, 882 796, 756 796, 812 796, 813 796, 814 796, 816 796, 816 797



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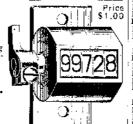
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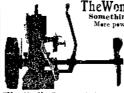
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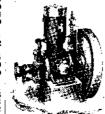












_	Door and window screen, O. B. Jacobs Door closer, G. N. Hall Door securing means, L. A. Leon Double action press, J. J. Rigby. Double class, F. O. Brockhaus. Drawing board, W. L. E. Keuffel. Drying cylinders, means for discharging fluids from, R. D. Tackaberry. Dusting machine, J. Baur Dye and making same, red violet sulfur, T. Muchall Dye, making a yellow sulfur, J. Hoerlin. Dyeing apparatus, J. Marshall Dyeing violet to black, V. Fussgarger Egg candling apparatus, E. H. Dunn Electric current governor, H. K. Sandell. Electric heater, E. Thomson Electric motor feed regulating device, S. W. Williams	
	Door and Window screen, O. B. Jacobs	796,656 796,420
	Door securing means, L. A. Leon	<b>796,4</b> 20
	Double action press, J. J. Rigby	796,534
	Double clasp, F. O. Brockhaus	796,696 796,732
	Drawing board, W. L. E. Keuffel	796,732
	fluide from R B Tacksbarry	796 773
	Dusting machine. J. Baur	796,773 796,794
	Dye and making same, red violet sulfur,	,
	T. Muchall	796,443
	Dye, making a yellow sulfur, J. Hoerlin	796,514 796,668
_	Dveing violet to black, V. Passuancer	796,668 796,715 796,960 796,961 796,935
	Egg candling apparatus, E. H. Dunn	796,960
	Egg candling scoop, E. H. Dunn	796,961
	Electric current governor, H. K. Sandell	796,935
	Electric light fixture, R. W. Morgan	796,684 796,922
	Electric motor feed regulating device, S. W. Williams Electric motor, rheostat, and belt tightener, combined, H. S. Graber Electrometal.cal regulator, J. L. Roatin, Electrometal.the device, H. Schuessler	,
	_ W. Williams	<b>796,4</b> 83
	Electric motor, rheostat, and belt tight-	700 027
	Electromechatical resultator J. L. Routin	796,637 796,606
	Electroplating device. H. Schuessler	796,606 796,872
	Engine roll, beating, I. P. Dillon	796,824
	Electroplating device, H. Schuessler Engine roll, beating, I. P. Dillon. Engine speed regulator, explosive, Parsons & Kellman Engines, incandescent igniter for explosive, Wassmann & Low	700 755
	Engines incandescent igniter for explosive	<b>796,7</b> 55
	Wassmann & Low	796,479
	Evaporator, A. P. Geer	796,839 796,747
	Excavating machine, W. Marshall	796,747
	Exploser, E. H. Atkins	796,953 796,680
	Explosion engine, H. O. Westendarp	796,686
	Fare receipt form, cash, H. P. Mussen	796,524
t	Fastener, G. A. Holmes	796,651
	Fastener, separable, n. R. Daker	796,49 <b>0</b> 796,674
	Fanaret, hat and cold water, W. S. Graham	796,576
١	Fenre post_and fencing holder, concrete,	
ì	J. B. Witty	<b>796,6</b> 88
	& Kellman Engines, incandescent igniter for explosive, Wassmann & Low Evaporator, A. P. Geer Excavating machine, W. Marshall Exploder, E. H. Atkins Explosion engine, Soller & Hettinger Explosion engine, H. O. Westendarp Fare receipt form, cash, H. P. Mussen. Fastener, G. A. Holmes Fastener, separable, H. R. Baker Faucet, E. A. Rider Faucet, bad and cold water, W. S. Graham Yenner post and fencing holder, concrete, J. B. Witty Fender, See Car fender. Fender, T. O. Sharp Fille, loose leaf, N. Niverville. Filling material, preducing a, C. Sundstrom Filter, G. M. Kneuper Filter, H. Breyer Fire curtain, theater, L. Potthoff. Fire door draft check, E. B. Kirby	796.460
•	File, loose leaf, N. Niverville	796,460 796,445 796,683 796,519
	Filling material, producing a, C. Sundstrom	796,683
3	Filter, G. M. Kneuper	796,519
)	Fire curtain theater L. Potthoff	796,801 796,448
	Fire door draft check, E. B. Kirby	796,660
	Fire door operating device, automatic, W.	
١	P. Reed	796,933
	Firearms, automatic counter for C. J. Sykes	796,472 796,614
	Fish dressing machine, E. A. Smith	796,538
	Fishing net, A. S. Cernet	796,538 796,709 796,948
Į	Fishing red, J. B. Tuttle	176,748
	H Nichols	790,853
	Filling material, producing a, C. Sundstrom Filter, G. M. Kneuper Filter, H. Breyer Fire curtain, theater, L. Potthoff. Fire door draft check, E. B. Kirby. Fire door operating device, automatic, W. P. Reed Fire extinguisher, chemical, J. B. Thomas. Firearms, automatic counter for, C. J. Sykes Fish dressing machine, E. A. Smith. Fishing red, J. B. Tuttle Fishing red, J. B. Tuttle Fixture support and canopy, combined, W. H. Nichols Floor construction support, L. Viezzi. Floor, elastic, C. R. Hunt Flowers, packing, shipping, and display frame for cut, J. M. Clark. Fluid pressure mechanism, C. C. Farmer. Fluid pressure mechanism, C. C. Farmer. Fluid volume and pressure register, T. B. Wylie Flushing apparatus, W. Scott	790,863 790,777 790,727
	Floor, elastic, C. R. Hunt	790,727
	Flower making device, artificial, J. Lieval.	796.665
	frame for cut. J. M. Clark	796,5●●
,	Fluid pressure mechanism, C. C. Farmer	<b>79</b> 6,5 <b>●</b> 6
	Fluid pressure regulator, W. T. Croslen	796,959
	Fluid volume and pressure register, T. B.	7 <b>6</b> 6 600
)	Fluching ammaratus W Scott	796,620 796,458 796,655
,	Fly trap, O. B. Jacobs	796,655
-	Felding bex, J. B. Le Cuyer, Jr	796,738 796,895
,	Foot covering cleaner, C. C. Childers	756,855
1	Fuel hurning amaratus, C. J. Coleman	796,838 796,899
1	Fume arrester, S. I. Clawson	796,899 796,956
	Furnace, E. O. C. Ord	796,856
	Furnace and soaking pit cover, Ryan &	700 DO 4
. ]	Furnaces of high temperature continuous	<b>796,934</b>
1	heater for. Houze & Hurrle	796,971
	Furniture and the like, priming articles of,	
	Fluid volume and pressure register, T. B.  Wylie  Flushing apparatus, W. Scott Fly trap, O. B. Jacobs  Folding bex, J. B. Le Cuyer, Jr.  Foot covering cleaner, C. C. Childers.  Frame fastening, R. G. Fraser  Fuel burning apparatus, C. J. Coleman.  Fume arrester, S. I. Clawson  Furnace, E. O. C. Ord.  Furnace and soaking pit cover, Ryan &  Daae  Furnace of high temperature, continuous  heater for, Houze & Hurrle.  Furniture and the like, priming articles of, G. Tuschel  Gage board, F. W. Wolf  Game apparatus, A. G. Thompson.  Garbage cremator, W. D. Welters.  Gardening, artificial shading for, H. D.  Shimer	796,775
	Game ammaratus A C Thomason	796,69 <b>0</b> 796,774 796,544
	Garbage cremater, W. D. Walters	796,544
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