#### Pertaining to Recreation,

TOY .- W. V. GILBERT, No. 30 Lonsdale road Wanstead, N. E., London, England. This de vice is actuated by compression in opposing directions. It forms the chief feature in the toy for imparting the required movement to the eyes, ears, and other parts of the figure representing the head of a man or animal, whereby the moving features or parts are actu ated in an unusual or extravagant manner, so that the figure may present preferably a grotesque appearance.

FIGURE TOY .- W. V. GILBERT, No. 30 Lonsdale road, Wanstead, N. E., London, England. In carrying out the invention Mr. Gilbert makes use of a spring device adapted to be actuated by compression on opposite directions. It is so constructed and arranged that what have been termed the "sides" or "wings" thereof are extended or lengthened so as to constitute the beak, jaws, or mandibles of the bird, reptile, insect, or other creature represented in whole or in part by the toy figure, such extended portion being preferably ribbed or corrugated.

BOWLING-ALLEY .- F. H. BEDELL, Brooklyn, N. Y. The floor of the alley has a triangular portion removed and replaced by a tri-angular metallic plate. The latter is of sufficient extent to contain all the bowling pins when they are set up in proper position thereon and is provided with a plurality of circular openings corresponding in number and position to those of the pins. By providing a metallic plate for receiving the bowling pins the life of the floor is prolonged, since the greater part of the wear is at the point where the balls strike the pins. Bowlers obtain many advantages through the means provided for placing the pins in correct position.

AMUSEMENT DEVICE.—D. J. B. CAFFODIO, New York, N. Y. The invention relates to amusement devices, and especially to the general type of such devices which are popularly known as "merry-go-rounds." The object is to produce a device which will give pleasure-seekers a new and enjoyable sensation. Bicycling, automobiling, and skating are prominent features of amusement provided by the operation

TOY OR TOY WAGON .- E. C. SEEREITER, Buffalo, N Y. In this instance the object is to provide a toy or toy wagon built of easilyseparable pieces to allow a child to readily take the whole article apart and to reunite pieces and rebuild the article, thus furnishing means to keep the child occupied and at the same time serving as a medium for educational or manual-training purposes.

GAME-TABLE .-- A. VAN B. BUSH, New York, N. Y. The invention comprises a table having a body with pockets formed therein adapted to receive a ball, a back-stop presenting a curved inner face, and an elevated tray adjacent to the back-stop having pockets adapted to receive the ball and an opening through which the ball may fall.

AMUSEMENT DEVICE .-- A. BOECK and J. MÜLLER, New York, N. Y. The object of the invention which relates to amusement devices is to provide a tower having attachments enabling persons to climb to the top thereof and having means of rapid descent from the tower. A further object is to provide the tower with means of amusement to entertain visitors.

HANTS TO CORRESPONDENTS.

Names and Address must accompany all letters of no attention will be paid thereto. This is for our information and not for publication. References to fermer 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 endeaver to reply to all either by letter or in this department, each must take his turn. invention which relates to amusement devices

## Pertaining to Vehicles.

ELASTIC TIRE FOR WHEELS .- L. BOIR-ELASTIC TIRE FOR WHEELS.—L. BoirAult, 8 Rue Emile Gilbert, Paris, France. This
invention relates to an elastic tire compressing
a series of corrugated flat springs arranged
around the rim or felly and a cover or tread
around the rim or felly and a cover or tread
around the said springs. It consists arranged around the said springs. It consists arranged around the said springs. It consists neither in arranging on a felly springs surmarked or labeled. rounded by a flexible tread nor in providing the felly with any kind of ribs, but in combining the springs with the ribs and with the tread to allow of the springs yielding totally in radial and partially in transversal direction, while they are in part rigidly supported in the latter and completely so in the cir-stance. 2. Does the exposure or influence of cumferential direction.

ping action becomes stronger and stronger.

## Designs.

FRENCH, Canton, Mass. This ornamental de- is a very old belief that the ancients knew sign for a knit fabric is laid out by arranging how to temper copper as we temper steel. No rows of squares of dark material each united tempered copper is in existence, and there are at two opposite ends. The position of the scholars who do not believe it ever was done. body of light colored material presents an a wide use for hardened copper or aluminium, accurate zig-zag path the whole length of the unless their tensile strength could be greatly pattern.

be furnished by Munn & Co. for ten cents each. success. 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

Marine Iron Works. Chicago. Catalogue free.

Inquiry No. 8518.—Wanted, a machine for making down out of ordinary chicken feathers.

Pattern Letters. Knight & Son, Seneca Falls, N. Y.

Inquiry No. 8519.—Wanted. name and address of he manufacturers of a sheet metal locked box with nvelopes inside, for holding valuable papers.

"U.S." Metal Polish. Indianapolis. Samples free. Inquiry No. 8520.-Wanted, the address of the Royal Motor Works, of New York.

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

Inquiry No. 8521.—Wanted, a machine (gasoline preferred) for sawing down trees, and cutting in cord lengths.

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

Inquiry No. 8522.—Wanted particulars of appliances and shifting type for marking aluminum strips and washers with names, addresses and consecutive numbering.

Make Alcohol from Farm Products.-New book, \$1.00. Spon & Chamberlain, 123 S. A. Liberty Street, N. Y.

Inquiry No. 8523.—Wanted, machinery for making small pin tickets.

WANTED .- Copies of our "Manufacturers' Index" issued some eight years ago. State price. Munn & Co., 361 Broadway, New York.

Inquiry No. 8524.—Wanted, the address of the Higganum Mfg. Co.

The celebrated "Hornsby-Akroyd" safety oil engine. Koerting gas engine and producer. Ice machines. by De La Vergne Mch. Co., Ft. E. 138th St. N. Y. C.

Inquiry No. 8525.—Wanted machinery for manuacturing butterine, lard and oleomargarine.

Manufacturers of patent articles, dies, metal stamping, screw machine work, hardware specialties, machine work and special size washers. Quadriga Manufacturing Company, 18 South Canal St., Chicago.

Inquiry No. 8526.—For a firm wishing to undertake the manufacture of scissors.

Inquiry No. 8527.-Wanted, addresses of makers of matrices for type-castng machines or of steel dies for forming the matrix letters.

Inquiry No. 8528.—Wanted, name and address of the manufacturers of the Minerva Piano Player. Inquiry No. 8529.—Wanted, makers of fas mantle knitting machines

Inquiry No. 8530.—Wanted, parties to manufacture insect traps.

Inquiry No. 8531.-Wanted, parties to manufacture small compressed air motor.

Inquiry No. 8532.—Wanted, a machine for extracting gold from dry sand or gravel.

Inquiry No. 8533.—Wanted, spectacles having artificial eyes on back of the glasses.



HINTS TO CORRESPONDENTS.

his turn.

Buyers wishing to purchase any article not advertised in our columns will be furnished with addresses of houses manufacturing or carrying

(10250) W. B. M. asks: 1. What is the nature of the conductivity of selenium in carrying a current of electricity, as affected or influenced by light? A. We do not know the nature of electrical conductivity in any subumferential direction.

WHIP-SOCKET.—R. H. HEBERLING, Wil-taneously? A. All action of light is practically merding, Pa. The invention is an improvement instantaneous. 3. Is selenium a non-conductor with the rims of the grippers causes the latter to rotate on their pivots, so that as the whip descends the eccentricity of the portion in contact with it increases, and thus the gripping action becomes stronger and stronger.

Automobile Searing, removable, C. S. Lock-week and at name on this point. The best Automobile Searing, removable, C. S. Lock-week and the post of learning all about selenium is to go afframe, Hiering & Fuller.

Baleboard, pastry cup Bakeboard, pastry cup Baler power, hay, F. A. Lake.

Baling press, W. H. Benwell.

Supplement Nos. 462, 484, 492, and 1348 for Balloon, dirigible, E. M. Bessuet. Supplement Nos. 462, 484, 492, and 1348 for

(10251) F. J. B. asks: I would thank you if you would treat upon the hardening of copper and aluminium, and if the discoverer DESIGN FOR A KNIT FABRIC.-C. H. of same would be amply rewarded. A. There squares or diamonds is such that the separating | We doubt very much whether there would be Note.—Copies of any of these patents will in making experiments to this end, but without

(10252) F. S. writes: 1. A friend of Bell ringing circuit, G. P. McDennell, 837,635, 837,636 mine got into an argument with me concerning electricity. I said it was made or gener READ THIS COLUMN CAREFULLI. AND THE 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 liquid cell. He said it was gathered or coladdress of the party desiring the information. In every case it is necessary to give the number of the inquiry.

MUNN & CO. ated by the use of a magnetic field or produced describe how it is made, so we may settle the question. A. Electricity is produced in batteries by chemical action; in most primary cells by dissolving zinc in sulphuric acid. It is produced in dynamos by revolving coils of wire in a magnetic field; in thermo-couples by heating the junction of two metals. The first two methods named are the ones by which most of the commercial current is generated. There is electricity always present in the atmosphere, which can be detected by t e proper instruments, but which is seen by any one in thunderstorms. This electricity is, however, not used for any practical purpose. 2. I have a magneto-generator, such as are used in telephones, giving an alternating current because there are only two sets of coils on the armature. Why is it not possible to use a ring armature and have one continuous coil wound on it, having a one-piece commutator? Would it generate a continuous current by keeping the current up to a maximum instead of at zero and then a maximum, and about what would be the voltage? Could I increase the strength of the permanent magnetic field by wrapping it with magnet wire in the right direction, and if possible could you tell me the amperage of a telephone magneto-generator wound the way I have described? A. The current of the magneto is alternating because the armature is not provided with a commutator. A direct current can be produced by a single coil on an armature if there is a commutator. We do not know how much you can get out of your magneto; enough to ring a bell, surely, but not enough to do much more than this.

> (10253) J. J. S. asks: 1. In making Leyden jars, I have had great difficulty in coat ing the inside with tinfoil. Will you kindly advise me on the following points: Would it do equally well to half fill the jar with tinsel, of course coating the outside with tinfoil? The tinsel will not be continuous, nor will it be in contact with the sides of the jar. 2. Would it do to shellac the inside up to the proper height and shake in bronze powder? A. Not so well as tinfoil. 3. In using tinfoil, should the bottom, inside and outside be covered? A. Yes. There is not much difficulty in placing the tinfoil properly in the jar. Cut the foil into strips of two inches or thereabout in width. Apply the paste to the inside of the jar with a long-handled brush. Put the foil in with forceps or in any other convenient manner, and bring it to its place and rub it down with a dry brush with long bristles. 4. I have made a Wimshurst machine with 18inch plates, but can only get a spark of %4 inch. Is this all a machine of that size is capable of, or have I made some mistake in construction? A. The spark is not long when a Leyden jar is not used. And indeed when the jar is used, its effect is to render the discharge intense rather than to lengthen the

## INDEX OF INVENTIONS

For which Letters Patent of the

United States were Issued

for the Week Ending

December 4, 1906.

AND EACH BEARING THAT DATE [See note at end of list about copies of these patents.]

837.592

Acid concentrating apparatus, sulfuric, L. Stange

Stange
Acid, manufacturing beric, O. Best.
Adjustment, combination, T. E. Lutz.
Air brake, H. M. Marsh.
Air compressers, mechanism for unloading,
H. P. Morgan
Air ship, E. Hutchinsen.
Alkylaminomethylipentyl benzeate, T. Emilewicz 837,378 837,483 837,416 vided with means for locking a whip to prevent its surreptitious removal. The grippers are held so that the whip is gripped with minimum force, yet when introduced its frictional contact with the rims of the grippers causes the latter to rotate on their pivots, so that as the whip is a the whip is gripper and the property of the grippers causes the latter to rotate on their pivots, so that as the whip is gripper and the property of the grippers causes the latter to rotate on their pivots, so that as the whip is gripper and the property of the grippers causes the latter to rotate on their pivots, so that as the whip is gripper and the property of the grippers causes the latter to rotate on their pivots, so that as the whip is gripper and the property of the grippers causes the latter to rotate on their pivots, so that as the whip is gripper and the property of the grippers causes the latter to rotate on their pivots, so that as the whip is gripped with minimum force, along the non-conductors.

4. Do any particular colors or rays of light affect it more quickly than others? A. We have no data at hand on this point. The best are property of the grippers causes the latter to rotate on their pivots, so that as the whip is gripped with minimum force, yet when introduced its frictional contact the property of the grippers are the grippers are it is to be classed among the non-conductors.

4. Do any particular colors or rays of light and the grippers are the manufacture of the grippers are the more quickly than others?

57,899

61,897,899

62,897,899

63,892

64, Do any particular colors or rays of light and the minimum force, and the manufacture of the grippers are Balleen, dirigible, E. M. Bessuet...
Balls from sheet metal, machine for making,
A. Jehnsten
Band rake, A. Grieves
Barrel, metallic, H. A. Keiner.
Barrel press, W. P. Rebinsen.
Basin, wash, B. N. Miles.
Basket, A. J. Carlten.
Bath and basin steppers, making, H. C.
Fresheur

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Binder, lesse leaf, C. C. Malthy.  Bit, A. L. Nelsen	837,698 837,490 837,730
Blind slot lock, J. W. McGrain	837,419
Block molding machine, E. N. Edwards Boiler, G. Kingsley	837,550 837,847
Bond detectors, receiving device for, H.A.  Watson	837,440
Bookcase, sectional, Faust & Brolin Boot and shoe, C. Radotinsky	837,293 837,726
Bottle and bottle closure, A. Eimer  Bottle and cap therefor. Strom & Elfstrom	837,812 837,648
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Bottle washing apparatus, D. M. Kyle	837,4 <b>0</b> 1 837,3 <b>0</b> 9
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Brake shee, C. Jager	837,407 837,29 <b>♦</b>
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Buckle, sanitary belt, R. F. Bennett  Buckle, suspender, J. F. Mølløy	837,276 837,704
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Car coupling, J. C. Yeiser	837,531 837,893
Jewell  Car draft rigging. Tatum & Prendergast	837,474 837,754
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man Carrier, See Manure carrier. Carrier, A. Klinzing. Cartiage belt, W. W. Gibson. Cattle guard, L. A. Jungman. Cement compounds. apparatus for making, H. M. Perry.	$837,864 \\ 837,89 $
Connion A Klinging	Q27 2 <b>△</b> 6
Cattle guard, L. A. Jungman	837,824 837,842
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L. B. & F. A. Altaffer. Chimney, tent, R. S. Reid. Chin support, C. G. Davis. Chloridizing apparatus, J. E. Greenawalt. Churn power mechanism, H. F. Carrice. Chute, pertable loading, A. Benenate. Cigarette and match case, combination, G. B. Groesbeck Cigarette making machines, apparatus for feeding tobacco to, B. Baron. Circuit controller, automatic, R. Varley. Cloth shrinking device, A. Bray. Clutch, F. Muller. Clutch, friction, S. J. Riley. Coal tipple, J. J. Fleming. Coffee cooker, M. M. Herrera. Coin detector, H. G. Kellogg. Coin helder, R. R. Kintz. Coke leveling machine, G. T. Wickes. Commutator, S. S. Seyfert. Composition of matter, W. H. Smith.	837,448 837,729 837,612 837,560 837,602 837,602 837,466 837,766 837,597 837,597 837,597 837,732 837,732 837,732 837,364 837,685 837,364 837,485 837,364 837,485
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Cartridge belt, W. W. Gibson. Cattle guard, L. A. Jungman. Cattle guard, L. A. Jungman. Cement compounds, making, H. M. Perry. Center marking device, D. A. Labunski. Centrifugal machine, B. Ljungstrøm. Chair attachment, A. V. & W. H. Jackson. Chair attub pattern, J. M. Germanson. Chair bub pattern, J. M. Germanson. Chair lub pattern, J. M. Germanson. Chandelier support, D. V. Cushman. Chemical desks, ventilating apparatus for, L. B. & F. A. Altaffer. Chimney, tent, R. S. Reid. Chin support, C. G. Davis. Chloridizing apparatus, J. E. Greenawalt. Churn power mechanism, H. F. Carrico. Chute, portable loading, A. Benenato. Cigarette and match case, combination, G. B. Groesbeck Cigarette making machines, apparatus for feeding tebacco to, B. Baron. Circuit controller, autematic, R. Varley. Cleth shrinking device, A. Bray. Clutch, F. Muller. Colin detecter, H. G. Kellegg. Coin helder, R. R. Kintz. Composition of matter, W. H. Smith. Compound engine, I. H. Boyer. Concrete block making machine, G. Cur- ley Coeker, steam, J. Mackey.	837,448 837,729 837,660 837,660 837,660 837,660 837,602 837,466 837,5767 837,281 837,632 837,930 837,732 837,930 837,736 837,736 837,736 837,785 837,785
Cooker, steam, J. Mackey	837,485
Cooker, steam, J. Mackey	837,485
Cooker, steam, J. Mackey	837,485
Cooker, steam, J. Mackey. Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton. Core making machine, Coles & Schmitz. Corn crib, W. Branch. Corn husking machine, A. P. Wolfe Corn post, transom bar, or mullion, L.	837,485 837,499 837,562 837,798 837,786 837,445 837,437 837,669
Cooker, steam, J. Mackey. Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton. Core making machine, Coles & Schmitz. Corn crib, W. Branch. Corn husking machine, A. P. Wolfe Corn post, transom bar, or mullion, L.	837,485 837,499 837,562 837,798 837,786 837,445 837,445
Cooker, steam, J. Mackey. Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton. Core making machine, Coles & Schmitz. Corn crib, W. Branch. Corner post, transom bar, or mullion, L. von Gerichten. Corset busk, P. Dresness. Cotton chopper, W. C. Kyle. Cottle, transom bar, or mullion, L. Corner post, transom bar, or mullion, L. Corner post, transom bar, or mullion, L. Corner post, B. Begardus, Collivator attachment, S. Seitner, Jr. Cultivator attachment, S. Seitner, Jr. Cultivator replanting attachment F. W.	837,485 837,499 837,562 837,798 837,786 837,445 837,437 837,669
Cooker, steam, J. Mackey.  Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton Core making machine, Coles & Schmitz Corn crib, W. Branch Corn husking machine, A. P. Wolfe Corner post, transom bar, or mullion, L. von Gerichten Corset busk, P. Drosness Cotton chapper, W. C. Kyle Cultivator attachment, S. Seitner, Jr Cultivator replanting attachment, F. W. Shaver Cultivator tooth, automatic spring, Nelson & Kalkhurst Culvert mold, E. T. Morris	837,485 837,499 837,562 837,798 837,786 837,445 837,445 837,669 837,851 837,278 837,74• 837,891 837,335 837,328
Cooker, steam, J. Mackey.  Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton Core making machine, Coles & Schmitz Corn crib, W. Branch Corn husking machine, A. P. Wolfe Corner post, transom bar, or mullion, L. von Gerichten Corset busk, P. Drosness Cotton chapper, W. C. Kyle Cultivator attachment, S. Seitner, Jr Cultivator replanting attachment, F. W. Shaver Cultivator tooth, automatic spring, Nelson & Kalkhurst Culvert mold, E. T. Morris	837,485 837,499 837,562 837,798 837,786 837,445 837,445 837,669 837,851 837,278 837,74• 837,891 837,335 837,328
Cooker, steam, J. Mackey.  Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton Core making machine, Coles & Schmitz Corn crib, W. Branch Corn husking machine, A. P. Wolfe Corner post, transom bar, or mullion, L. von Gerichten Corset busk, P. Drosness Cotton chapper, W. C. Kyle Cultivator attachment, S. Seitner, Jr Cultivator replanting attachment, F. W. Shaver Cultivator tooth, automatic spring, Nelson & Kalkhurst Culvert mold, E. T. Morris	837,485 837,499 837,562 837,798 837,786 837,445 837,445 837,669 837,851 837,278 837,74• 837,891 837,335 837,328
Cooker, steam, J. Mackey.  Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton Core making machine, Coles & Schmitz Corn crib, W. Branch Corn husking machine, A. P. Wolfe Corner post, transom bar, or mullion, L. von Gerichten Corset busk, P. Drosness Cotton chapper, W. C. Kyle Cultivator attachment, S. Seitner, Jr Cultivator replanting attachment, F. W. Shaver Cultivator tooth, automatic spring, Nelson & Kalkhurst Culvert mold, E. T. Morris	837,485 837,499 837,562 837,798 837,786 837,445 837,445 837,669 837,851 837,278 837,74• 837,891 837,335 837,328
Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton. Core making machine, Coles & Schmitz. Corn crib, W. Branch. Corn husking machine, A. P. Wolfe Corn husking machine, A. P. Wolfe Corner post, transom bar, or mullion, L. von Gerichten. Corset busk, P. Drosness. Cotton chapper, W. C. Kyle Cotton chapper, W. C. Kyle Cultivator attachment, S. Seitner, Jr Cultivator replanting attachment, F. W. Shaver Cultivator tooth, automatic spring, Nelson & Kalkhurst Currents, means for commutating motor and other electric, S. S. Seyfert Dating machine, C. Spielmann Dental handpiece, A. C. Sargent Derricks or cranes, device for swinging, O. L. Schlumpf. Disk drill, H. C. Howe, et al. Disk drill, H. C. Howe, et al.	837,485 837,499 837,562 837,786 837,786 837,786 837,447 837,689 837,278 837,744 837,891 837,335 837,348 837,349 837,514 837,492 837,514 837,493 837,492
Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton. Core making machine, Coles & Schmitz. Corn crib, W. Branch. Corn husking machine, A. P. Wolfe Corn husking machine, A. P. Wolfe Corner post, transom bar, or mullion, L. von Gerichten. Corset busk, P. Drosness. Cotton chapper, W. C. Kyle Cotton chapper, W. C. Kyle Cultivator attachment, S. Seitner, Jr Cultivator replanting attachment, F. W. Shaver Cultivator tooth, automatic spring, Nelson & Kalkhurst Currents, means for commutating motor and other electric, S. S. Seyfert Dating machine, C. Spielmann Dental handpiece, A. C. Sargent Derricks or cranes, device for swinging, O. L. Schlumpf. Disk drill, H. C. Howe, et al. Disk drill, H. C. Howe, et al.	837,485 837,499 837,562 837,786 837,786 837,786 837,278 837,278 837,278 837,346 837,335 837,346 837,340 837,341 837,492 837,514 837,492 837,514 837,493
Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton. Core making machine, Coles & Schmitz. Corn crib, W. Branch. Corn husking machine, A. P. Wolfe Corn husking machine, A. P. Wolfe Corner post, transom bar, or mullion, L. von Gerichten. Corset busk, P. Drosness. Cotton chapper, W. C. Kyle Cotton chapper, W. C. Kyle Cultivator attachment, S. Seitner, Jr Cultivator replanting attachment, F. W. Shaver Cultivator tooth, automatic spring, Nelson & Kalkhurst Currents, means for commutating motor and other electric, S. S. Seyfert Dating machine, C. Spielmann Dental handpiece, A. C. Sargent Derricks or cranes, device for swinging, O. L. Schlumpf. Disk drill, H. C. Howe, et al. Disk drill, H. C. Howe, et al.	837,485 837,499 837,562 837,786 837,786 837,786 837,278 837,278 837,278 837,346 837,335 837,346 837,340 837,341 837,492 837,514 837,492 837,514 837,493
Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton. Core making machine, Coles & Schmitz. Corn crib, W. Branch. Corn husking machine, A. P. Wolfe Corn husking machine, A. P. Wolfe Corner post, transom bar, or mullion, L. von Gerichten. Corset busk, P. Drosness. Cotton chapper, W. C. Kyle Cotton chapper, W. C. Kyle Cultivator attachment, S. Seitner, Jr Cultivator replanting attachment, F. W. Shaver Cultivator tooth, automatic spring, Nelson & Kalkhurst Currents, means for commutating motor and other electric, S. S. Seyfert Dating machine, C. Spielmann Dental handpiece, A. C. Sargent Derricks or cranes, device for swinging, O. L. Schlumpf. Disk drill, H. C. Howe, et al. Disk drill, H. C. Howe, et al.	837,485 837,499 837,562 837,786 837,786 837,786 837,278 837,278 837,278 837,346 837,335 837,346 837,340 837,341 837,492 837,514 837,492 837,514 837,493
Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton. Core making machine, Coles & Schmitz. Corn crib, W. Branch. Corn husking machine, A. P. Wolfe Corn husking machine, A. P. Wolfe Corner post, transom bar, or mullion, L. von Gerichten. Corset busk, P. Drosness. Cotton chapper, W. C. Kyle Cotton chapper, W. C. Kyle Cultivator attachment, S. Seitner, Jr Cultivator replanting attachment, F. W. Shaver Cultivator tooth, automatic spring, Nelson & Kalkhurst Currents, means for commutating motor and other electric, S. S. Seyfert Dating machine, C. Spielmann Dental handpiece, A. C. Sargent Derricks or cranes, device for swinging, O. L. Schlumpf. Disk drill, H. C. Howe, et al. Disk drill, H. C. Howe, et al.	837,485 837,499 837,562 837,786 837,786 837,786 837,278 837,278 837,278 837,346 837,335 837,346 837,340 837,341 837,492 837,514 837,492 837,514 837,493
Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton. Core making machine, Coles & Schmitz. Corn nisking machine, Coles & Schmitz. Corn crib, W. Branch. Corner post, transom bar, or mullion, L. von Gerichten. Corset busk, P. Drosness. Cotton chapper, W. C. Kyle. Crib, folding, F. Begardus Cultivator attachment, S. Seitner, Jr Cultivator replanting attachment, F. W. Shaver Cultivator seth, automatic spring, Nelson & Kalkhurst Currents, means for commutating motor and other electric, S. S. Seyfert Dating machine, C. Spielmann Dental handpiece, A. C. Sargent Derricks or cranes, device for swinging, O. L. Schlumpf. Disk deill, H. C. Howe, et al. Disk jointer, N. P. Nelson. Distilling and rectifying apparatus, U. Lorents rentz Doors and other hinged closures, mechanism for operating, A. M. Spink Draft appliance, T. E. & W. L. Cox. Draft attachment for vehicles, spring, W. H. Robinson Draft equalizer, G. W. Raymond Draft equalizer, G. W. Raymond Draft rigging, friction, Asper & Boryeson Drawing press, O. S. Beyer. Driers. See Hop orler.	837,485 837,499 837,562 837,786 837,786 837,786 837,437 837,669 837,831 837,345 837,348 837,349 837,514 837,831 837,492 837,510 837,839 837,516 837,839 837,491 837,696 837,839 837,591 837,591 837,696 837,838 837,838
Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton. Core making machine, Coles & Schmitz. Corn nisking machine, Coles & Schmitz. Corn crib, W. Branch. Corner post, transom bar, or mullion, L. von Gerichten. Corset busk, P. Drosness. Cotton chapper, W. C. Kyle. Crib, folding, F. Begardus Cultivator attachment, S. Seitner, Jr Cultivator replanting attachment, F. W. Shaver Cultivator seth, automatic spring, Nelson & Kalkhurst Currents, means for commutating motor and other electric, S. S. Seyfert Dating machine, C. Spielmann Dental handpiece, A. C. Sargent Derricks or cranes, device for swinging, O. L. Schlumpf. Disk deill, H. C. Howe, et al. Disk jointer, N. P. Nelson. Distilling and rectifying apparatus, U. Lorents rentz Doors and other hinged closures, mechanism for operating, A. M. Spink Draft appliance, T. E. & W. L. Cox. Draft attachment for vehicles, spring, W. H. Robinson Draft equalizer, G. W. Raymond Draft equalizer, G. W. Raymond Draft rigging, friction, Asper & Boryeson Drawing press, O. S. Beyer. Driers. See Hop orler.	837,485 837,499 837,562 837,786 837,786 837,786 837,437 837,669 837,831 837,345 837,348 837,349 837,514 837,831 837,492 837,510 837,839 837,516 837,839 837,491 837,696 837,839 837,591 837,591 837,696 837,838 837,838
Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton. Core making machine, Coles & Schmitz. Corn nisking machine, Coles & Schmitz. Corn crib, W. Branch. Corner post, transom bar, or mullion, L. von Gerichten. Corset busk, P. Drosness. Cotton chapper, W. C. Kyle. Crib, folding, F. Begardus Cultivator attachment, S. Seitner, Jr Cultivator replanting attachment, F. W. Shaver Cultivator seth, automatic spring, Nelson & Kalkhurst Currents, means for commutating motor and other electric, S. S. Seyfert Dating machine, C. Spielmann Dental handpiece, A. C. Sargent Derricks or cranes, device for swinging, O. L. Schlumpf. Disk deill, H. C. Howe, et al. Disk jointer, N. P. Nelson. Distilling and rectifying apparatus, U. Lorents rentz Doors and other hinged closures, mechanism for operating, A. M. Spink Draft appliance, T. E. & W. L. Cox. Draft attachment for vehicles, spring, W. H. Robinson Draft equalizer, G. W. Raymond Draft equalizer, G. W. Raymond Draft rigging, friction, Asper & Boryeson Drawing press, O. S. Beyer. Driers. See Hop orler.	837,485 837,499 837,562 837,786 837,786 837,786 837,437 837,669 837,831 837,345 837,348 837,349 837,514 837,831 837,492 837,510 837,839 837,516 837,839 837,491 837,696 837,839 837,591 837,591 837,696 837,838 837,838
Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton. Core making machine, Coles & Schmitz. Corn crib, W. Branch Corner post, transom bar, or mullion, L. von Gerichten Corset busk, P. Dresness. Cotton chapper, W. C. Kyle. Crib, folding, F. Begardus Cultivator attachment, S. Seitner, Jr. Cultivator explanting attachment, F. W. Shaver Cultivator tooth, automatic spring, Nelson & Kalkhurst Culvert mold, E. T. Merris. Currents, means for commutating motor and other electric, S. S. Seyfert Dating machine, C. Spielmann Dental handpiece, A. C. Sargent Derricks or cranes, device for swinging, O. L. Schlumpf Disk deinler, N. P. Nelson. Distilling and rectifying apparatus, U. Lorentz Deer and windew securer, B. E. Storr. Doers and windew securer, B. E. Storr. Draft appliance, T. E. & W. L. Cox. Draft rigging, friction, Asper & Beryeson. Draft equalizer, F. A. Frebreich Draft rigging, friction, Asper & Beryeson. Draft generally, F. A. Frebreich Draft rigging, friction, Asper & Beryeson. Draft generally, Septers. Driers, See Hop drier. Drills and like tools, taper shank for, A. A. Miller. Drum, smudge and heat, G. Griffiths. Duum, reatry, Blair & Robb. Dust cellecter, W. W. Sly. Dre and making same, halogenated, O.	837,485 837,499 837,592 837,786 837,786 837,786 837,437 837,669 837,328 837,891 837,335 837,328 837,894 837,894 837,894 837,894 837,894 837,894 837,896 837,896 837,896 837,896 837,896 837,896 837,896 837,896 837,896
Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton. Core making machine, Coles & Schmitz. Corn nerib, W. Branch. Corn husking machine, Coles & Schmitz. Corn crib, W. Branch. Corner post, transom bar, or mullion, L. von Gerichten. Corset busk, P. Drosness. Cotton chapper, W. C. Kyle. Crib, folding, F. Begardus. Cultivator attachment, S. Seitner, Jr. Cultivator explanting attachment, F. W. Shaver Cultivator explanting attachment, F. W. Shaver Cultivator tooth, automatic spring, Nelson & Kalkhurst Culvert mold, E. T. Merris. Currents, means for commutating motor and other electric, S. S. Seyfert Dating machine, C. Spielmann Derricks or cranes, device for swinging, O. L. Schlumpf Disk jeinter, N. P. Nelson. Distilling and rectifying apparatus, U. Lorentz Door and window securer, B. E. Storr. Doors and window securer, B. E. Storr.	837,485 837,499 837,592 837,798 837,786 837,497 837,669 837,346 837,347 837,669 837,351 837,328 837,349 837,351 837,340 837,351 837,340 837,351 837,402 837,510 837,659 837,836 837,837 837,659 837,836 837,837 837,659 837,838 837,659
Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton. Core making machine, Coles & Schmitz. Corn crib, W. Branch Corn husking machine, A. P. Wolfe. Corn crib, W. Branch Corner post, transom bar, or mullion, L. von Gerichten Corset busk, P. Dresness. Cotton chepper, W. C. Kyle. Crib, folding, F. Begardus Cultivator attachment, S. Seitner, Jr. Cultivator explanting attachment, F. W. Shaver Cultivator tooth, automatic spring, Nelson & Kalkhurst Culvert mold, E. T. Merris. Currents, means for commutating motor and other electric, S. S. Seyfert Dating machine, C. Spielmann Dental handpiece, A. C. Sargent Derricks or cranes, device for swinging, O. L. Schlumpf Disk dinter, N. P. Nelson. Distilling and rectifying apparatus, U. Lorentz Deer and windew securer, B. E. Storr. Doers and windew securer, B. E. Storr. Doers and windew securer, B. E. Storr. Doers and windew securer, B. E. Storr. Draft attachment for vehicles, spring, W. H. Robinson Draft equalizer, G. W. Raymond Draft equalizer, F. A. Frebreich Draft rigging, friction, Asper & Beryeson Draft equalizer, F. A. Frebreich Draft rigging, friction, Asper & Beryeson Draft equalizer, F. A. Frebreich Draft rigging, friction, Asper & Beryeson Draft equalizer, G. W. Raymond Draft equalizer, F. A. Frebreich Draft rigging, friction, Asper & Beryeson Draft equalizer, G. W. Raymond Draft equalizer, G. W. Raymond Draft equalizer, F. A. Frebreich Draft rigging, friction, Asper & Beryeson Draft equalizer, G. W. Bally Dump, reatry, Blair & Robb Dust collector, W. W. Sly. Dye and making same, halegenated, O. Bally Dye and making same, ned aze, A. Schedler Edger gang, C. W. Willett.	837,485 837,499 837,562 837,762 837,786 837,786 837,378 837,891 837,378 837,328 837,319
Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton. Core making machine, Coles & Schmitz. Corn crib, W. Branch Corn husking machine, A. P. Wolfe. Corn crib, W. Branch Corner post, transom bar, or mullion, L. von Gerichten Corset busk, P. Dresness. Cotton chepper, W. C. Kyle. Crib, folding, F. Begardus Cultivator attachment, S. Seitner, Jr. Cultivator explanting attachment, F. W. Shaver Cultivator tooth, automatic spring, Nelson & Kalkhurst Culvert mold, E. T. Merris. Currents, means for commutating motor and other electric, S. S. Seyfert Dating machine, C. Spielmann Dental handpiece, A. C. Sargent Derricks or cranes, device for swinging, O. L. Schlumpf Disk dinter, N. P. Nelson. Distilling and rectifying apparatus, U. Lorentz Deer and windew securer, B. E. Storr. Doers and windew securer, B. E. Storr. Doers and windew securer, B. E. Storr. Doers and windew securer, B. E. Storr. Draft attachment for vehicles, spring, W. H. Robinson Draft equalizer, G. W. Raymond Draft equalizer, F. A. Frebreich Draft rigging, friction, Asper & Beryeson Draft equalizer, F. A. Frebreich Draft rigging, friction, Asper & Beryeson Draft equalizer, F. A. Frebreich Draft rigging, friction, Asper & Beryeson Draft equalizer, G. W. Raymond Draft equalizer, F. A. Frebreich Draft rigging, friction, Asper & Beryeson Draft equalizer, G. W. Raymond Draft equalizer, G. W. Raymond Draft equalizer, F. A. Frebreich Draft rigging, friction, Asper & Beryeson Draft equalizer, G. W. Bally Dump, reatry, Blair & Robb Dust collector, W. W. Sly. Dye and making same, halegenated, O. Bally Dye and making same, ned aze, A. Schedler Edger gang, C. W. Willett.	837,485 837,499 837,562 837,562 837,786 837,786 837,786 837,278 837,744 837,891 837,325 837,325 837,325 837,340 837,810 837,810 837,810 837,810 837,811 837,402 837,510
Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton. Core making machine, Coles & Schmitz. Corn crib, W. Branch Corn husking machine, A. P. Wolfe. Corn crib, W. Branch Corner post, transom bar, or mullion, L. von Gerichten Corset busk, P. Dresness. Cotton chepper, W. C. Kyle. Crib, folding, F. Begardus Cultivator attachment, S. Seitner, Jr. Cultivator explanting attachment, F. W. Shaver Cultivator tooth, automatic spring, Nelson & Kalkhurst Culvert mold, E. T. Merris. Currents, means for commutating motor and other electric, S. S. Seyfert Dating machine, C. Spielmann Dental handpiece, A. C. Sargent Derricks or cranes, device for swinging, O. L. Schlumpf Disk dinter, N. P. Nelson. Distilling and rectifying apparatus, U. Lorentz Deer and windew securer, B. E. Storr. Doers and windew securer, B. E. Storr. Doers and windew securer, B. E. Storr. Doers and windew securer, B. E. Storr. Draft attachment for vehicles, spring, W. H. Robinson Draft equalizer, G. W. Raymond Draft equalizer, F. A. Frebreich Draft rigging, friction, Asper & Beryeson Draft equalizer, F. A. Frebreich Draft rigging, friction, Asper & Beryeson Draft equalizer, F. A. Frebreich Draft rigging, friction, Asper & Beryeson Draft equalizer, G. W. Raymond Draft equalizer, F. A. Frebreich Draft rigging, friction, Asper & Beryeson Draft equalizer, G. W. Raymond Draft equalizer, G. W. Raymond Draft equalizer, F. A. Frebreich Draft rigging, friction, Asper & Beryeson Draft equalizer, G. W. Bally Dump, reatry, Blair & Robb Dust collector, W. W. Sly. Dye and making same, halegenated, O. Bally Dye and making same, ned aze, A. Schedler Edger gang, C. W. Willett.	837,485 837,499 837,562 837,762 837,786 837,786 837,378 837,891 837,378 837,328 837,319
Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton. Core making machine, Coles & Schmitz. Corn crib, W. Branch Corn crib, W. Branch Corn busking machine, A. P. Wolfe. Corn busking machine, A. P. Wolfe. Corn crib, W. Branch Corner post, transom bar, or mullion, L. von Gerichten. Corset busk, P. Dresness. Cotton chepper, W. C. Kyle. Crib, folding, F. Begardus Cultivator attachment, S. Seitner, Jr. Cultivator explanting attachment, F. W. Shaver Cultivator tooth, automatic spring, Nelson & Kalkhurst Culvert mold, E. T. Merris. Currents, means for commutating motor and other electric, S. S. Seyfert Dating machine, C. Spielmann Dental handpiece, A. C. Sargent Derricks or cranes, device for swinging, O. L. Schlumpf Disk deinter, N. P. Nelson. Distilling and rectifying apparatus, U. Lorentz Deer and window securer, B. E. Storr. Doers and other hinged clesures, mechanism for operating, A. M. Spink. Draft appliance, T. E. & W. L. Cox. Draft appliance, T. E. & W. L. Cox. Draft equalizer, G. W. Raymond Draft equalizer, F. A. Frebreich Draft rigging, friction, Asper & Beryeson Draft nector, W. W. Sly. Dump, rotary, Blair & Rebb Dust cellector, W. W. Sly. Dye and making same, halogenated, O. Bally Dye and making same, red aze, A. Schedler Edger, gang, C. W. Willett. Egg beater, N. Stromer. Electric conduits, finishing or guard ring for, A. I. Appleton. Electric furnace, Birkeland & Eyde. Electric controlling system, U. J. Fry. Electric meter rerulating device, R. C.	837,485 837,499 837,592 837,786 837,786 837,786 837,851 837,278 837,851 837,328 837,328 837,328 837,328 837,402 837,810 837,869 837,869 837,879 837,879 837,879 837,879 837,879 837,879 837,886 837,886 837,887 837,887 837,888
Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton. Core making machine, Coles & Schmitz. Corn crib, W. Branch Corn crib, W. Branch Corn busking machine, A. P. Wolfe. Corn busking machine, A. P. Wolfe. Corn crib, W. Branch Corner post, transom bar, or mullion, L. von Gerichten. Corset busk, P. Dresness. Cotton chepper, W. C. Kyle. Crib, folding, F. Begardus Cultivator attachment, S. Seitner, Jr. Cultivator explanting attachment, F. W. Shaver Cultivator tooth, automatic spring, Nelson & Kalkhurst Culvert mold, E. T. Merris. Currents, means for commutating motor and other electric, S. S. Seyfert Dating machine, C. Spielmann Dental handpiece, A. C. Sargent Derricks or cranes, device for swinging, O. L. Schlumpf Disk deinter, N. P. Nelson. Distilling and rectifying apparatus, U. Lorentz Deer and window securer, B. E. Storr. Doers and other hinged clesures, mechanism for operating, A. M. Spink. Draft appliance, T. E. & W. L. Cox. Draft appliance, T. E. & W. L. Cox. Draft equalizer, G. W. Raymond Draft equalizer, F. A. Frebreich Draft rigging, friction, Asper & Beryeson Draft nector, W. W. Sly. Dump, rotary, Blair & Rebb Dust cellector, W. W. Sly. Dye and making same, halogenated, O. Bally Dye and making same, red aze, A. Schedler Edger, gang, C. W. Willett. Egg beater, N. Stromer. Electric conduits, finishing or guard ring for, A. I. Appleton. Electric furnace, Birkeland & Eyde. Electric controlling system, U. J. Fry. Electric meter rerulating device, R. C.	837,485 837,499 837,786 837,786 837,786 837,786 837,437 837,681 837,278 837,328 837,328 837,328 837,328 837,402 837,800 837,810 837,800 837,810 837,800 837,810 837,828 837,423 837,402 837,800
Cooling and condensing apparatus, Perkins & Kitchen Copper ores, treating, E. H. Hamilton. Core making machine, Coles & Schmitz. Corn crib, W. Branch Corn beking machine, A. P. Wolfe. Corn crib, W. Branch Corn beking machine, A. P. Wolfe. Corn beking machine, A. P. Wolfe. Corn husking machine, A. P. Wolfe. Corn crib, W. Branch Corner post, transom bar, or mullion, L. von Gerichten. Corset busk, P. Dresness. Cotton chapper, W. C. Kyle. Crib, folding, F. Begardus Cultivator attachment, S. Seitner, Jr. Cultivator attachment, S. Seitner, Jr. Cultivator tooth, automatic spring, Nelson & Kalkhurst Culvert mold, E. T. Merris. Currents, means for commutating motor and other electric, S. S. Seyfert Dating machine, C. Spielmann Dental handpiece, A. C. Sargent Derricks or cranes, device for swinging, O. L. Schlumpf Disk dinter, N. P. Nelson. Distilling and rectifying apparatus, U. Lorentz Deer and window securer, B. E. Storr. Doers and window securer, B. E. Storr. Draft appliance, T. E. & W. L. Cox. Draft attachment for vehicles, spring, W. H. Robinson Draft equalizer, G. W. Raymond Draft equalizer, F. A. Frebreich Draft rigging, friction, Asper & Beryeson. Draft rigging, friction, Asper & Beryeson. Draft equalizer, F. A. Frebreich Draft rigging, friction, Asper & Beryeson. Drump, rotary, Blair & Robb Dust collector, W. W. Sly. Dye and making same, halogenated, O. Bally Dye and making same, anthracene, M. H. User and making same, anthracene, M. H. Dye and making same, anthracene, M. H. Dye and making same, anthracene, M. J. Dye and making same, anthracene, M. J. Dye and making same red aze. A. Schedler Edger, gang. C. W. Willett. Egg beate	837,485 837,499 837,798 837,786 837,786 837,786 837,891 837,278 837,891 837,335 837,328 837,340 837,491 837,696 837,591 837,891 837,891 837,891 837,891 837,891 837,896 837,897 837,797 837,896 837,897 837,897 837,797 837,898 837,797 837,898