# RECENTLY PATENTED INVENTIONS. Agricultural Implements.

PLOW .- H. BRYAN, Modesto, Cal. This invention is an improvement in the class of wheeled-plows, more particularly gang plows, whose frame is supported at the rear end by a wheel adapted for vertical adjustment for the purpose of varying the depth of the furrow or for supporting the plows proper above the surface of the ground when the plow is being hauled or shipped.

CORN-SHOCK CARRIER.—N. W. LYON Brighten, Iowa. The object of this invention is first the provision of a simple and strong construction adapted to be turned up on end for ready loading of an upright shock on the vehicle; secondly, to provide means for binding the shock to the vehicle in an expeditious manner, and thirdly, to provide impaling devices adapted to co-operate with the binding devices and securely hold the shock on the vehicle against any tendency to become displaced.

#### Electrical Apparatus.

INCANDESCENT ELECTRIC LAMP.—G. C. WEBSTER, Warren, Ohio. The filament of this lamp is so arranged as to produce a maximum and symmetrical distribution of light rays. Filaments have heretofore been so constructed as to produce superior illumination in a vertical plane or downward direction, and others have given superior lateral distribution. In this invention, however, both effects have been attained.

 ${\tt ELECTRIC} \quad {\tt ACCUMULATOR-PLATE.} \longrightarrow {\tt A}$ FISCHER, Berlin, Germany. This accumulator plate consists of sheets of lead folded into serpentine form; the objects attained by this improved form are, first, that the plates are stiffened—that is, prevented from being straightened out in any degree—and, second, that their active surface is increased.

#### Hardware,

COMBINATION-TOOL.-J. L. Wood, Fulton, and W. G. LAWRENCE, Cordova, Ill. This and durable and which will afford increased tool has the general form of a monkey-wrench bite for frictional contact with the road bed, which various other implements are embodied by certain novel features of structure. The tool is particularly useful to bicyclists and automobile drivers, comprising as it does, a carriages, and the like. hammer, two spoke wrenches and a socket wrench, as well as a monkey-wrench.

SQUARE .- A. L. LUNDGREN, Pullman, Ill. Mr. Lundgren has invented a new drawing and measuring instrument which will be found useful to carpenters and other mechanics. The instrument is arranged for convenient adjustment to give any desired angle and is adapted to be folded into a comparatively small space.

# Mechanical Devices.

ROLLER-BEARING .- JOHN D. TWIGGS, JR., Augusta, Ga. The invention relates to axle journals and bearings for rolling stock, and other devices and machines. The bearing is when opening the bearing for examination or repairs, to insure a proper lubrication of the parts at all times, and to render the bearing dust-proof.

AUTOMATIC FAN.-J. D. WILLIAMS, Denning. Ark The invention is an improvement in that class of automatic fans which are designed to be placed upon tables in diningrooms, sick-rooms and other places, for creating a breeze of air and driving away flies or other troublesome insects. The chief features of novelty are the means for supporting the fan shaft and securing it detachably, and for adjusting the fan blades on the shaft.

CONSECUTIVE - NUMBERING A P P A -RATUS.-O. G. BARTUSCH, Brooklyn, N. Y. An improved consecutive-numbering apparatus is provided in this invention, which is aris provided in this invention, which is ar. minishing the fire space and grate area so ranged to actuate one set or a plurality of that more or less fire may be maintained, as sets of numbering wheels simultaneously and the case may require, resulting in an economy to allow of adjusting the sets nearer to or, of fuel when a small fire is desired. farther from each other, to suit the conditions of the work to be performed without disconnecting the sets from the driving LANE. Ashland, Ore. Messrs. Hilt and Lane and methods, and capable of handling men. State age,

Grant has invented a new machine for mounting photographs upon their cards or mounts. This machine enables the work to be done properly and in less time than is taken by the present hand method.

AUTOMATIC CAR AND ELEVATING TRACK.—W. L. McLaughum, Clearlake, Iowa, and J. E. Swenson, Lake Crystal, Minn. An improved automatic car and elevating truck is provided by this invention whereby grain, corn, coal, sand and the like may be elevated and dumped. The apparatus is arranged to automatically open the locked cargate for discharging the cargo into the chute leading to the place of discharge and to automatically close and lock the gate when the car reaches its receiving position.

WINDMILL .- T. W. Lowe, Stockton, Cal-The construction of the windmill is such that the vanes will catch any breeze that may be stirring, thus making the wheel run in very light winds. The effective area of the vanes may be varied either by automatic mechanism or by hand-controlled devices. The vanes are self-adjusting according to winds of the de-

sired strength, thus preventing the wheel from running at excessive speeds in case of high winds, and affording a construction which requires very little lubrication.

## Railway Improvements.

RAILROAD-BED .- MARTIN HAAS, Kalamazoo, Mich. A bed of novel construction is hereby afforded, upon which the rails may be directly supported without the use of crossties. The invention consists broadly in a cement bed upon which the rails rest, the bed having embedded within it longitudinal and transverse twisted or corrugated wires or strips.

MAIL DELIVERING AND CATCHING DEVICE.—W. J. Noble, Philadelphia, Pa. Mr. Noble has invented an improved mail delivering and catching device which is arranged to positively deliver a mail pouch or bag from a passing train to a track station and simultaneously cause an outgoing mail pouch to be picked up by the train from the station.

DUST-GUARD.-J. S. PATTEN, Baltimore, Md. Mr. Patten is the inventor of two forms of dust guards for use in boxes of railway The guards are cheaply and efficiently constructed for application to the ordinary box without necessitating any change of structure therein. In the first construction, the packing strip is in the form of an annular plaited flax strip having a central opening of desired bore and made of general elongated form to hold it from turning with the axle. In the second construction the packing sec-

tion is in the form of a frame pressed from a sheet of metal forming a face-plate and a center pocket in which the flax packing is held. A cover-piece is provided for securing the packing in place.

#### Vehicles and Their Accessories.

ARMOR FOR VEHICLE-TIRES.—C. H. PASCHKE, Buffalo, N. Y. The invention provides an inflatable tire for vehicles with a novel protective armor which is light, strong, thus preventing slipping of the wheels. The invention is particularly adapted for use on the wheels of heavy automobiles, road wagons,

# Miscellaneous Inventions.

PACKING-RING. — H. KIRSCHNING, 133 Ackerstrasse, Berlin, Germany. An improved packing-ring is hereby provided in the manufacture of which one or more sheet metal strips are pressed edge foremost into the ring. By means of the insertion of the metal strip, a reliable packing is obtained, having great strength and increased stiffness, so that the rings may be subjected to severe strains without danger of fracture or bending.

GUN-CLEANER .- G. H. GARRISON, Bucoda, Wash. The invention relates to improvements in devices for cleaning the interior of a gunarranged to reduce the friction of the parts to barrel, the object being to provide a simple a minimum, to hold the rollers in position means for expanding the swab while operating in the gun-barrel. A resilient vermicular core extends lengthwise through the swab whereby when the swab is compressed longitudinally it will be circumferentially expanded.

FOOT-WARMER FOR VEHICLES.-G. W. DUNHAM and J. W. Fox. East Cleveland, Ohio. This foot-warmer is adapted to utilize the waste heat resulting from combustion for propulsion of a vehicle, such as an automobile actuated by a motor using gas or steam for its motive agent, or to utilize the water-cooling circulation of automobiles actuated by gaso line.

STOVE OR RANGE.-G. A. TUCKFIELD, Salt Lake City, Utah. Mr. Tuckfield has invented improvements in stoves or ranges which comprise a simple means for increasing or di-

PROCESS FOR EXTRACTING PRECIOUS have invented a new process for precipitating experience, reference and salary required.

APPARATUS FOR MOUNTING PHOTO.

have invented a new process for precipitating the Ohio Brass Company, Mansfield, Ohio.

Address RAPHS.-I. G. GRANT, Bozeman, Mont. Mr. cess consists in producing zinc vapor and rondensing the same beneath the surfaces of said solutions, thereby causing the zinc to replace the precious metals in the solutions.

ARTIFICIAL STONE .- F. BOAS, St. Hyacinthe. Can. The invention has reference to Must deposit one hundred and fifty thousand dollars. artificial stones which are obtained by the action of high or low pressure steam on a mixture of sand with material containing alka line earth, and it is distinguished from the processes heretofore in use by employing silicate of magnesia as a chief agent for effecting the solidification of the mixture.

COMBINED UNDERVIST AND CORSET-COVER.—C. DUFOUR, Savannah, Ga. This im- and other Books for sale by Munn & Co., 361 Broadway, proved lady's garment combines an undervest and corset-cover and is arranged to permit the weaver to readily use the garment as an undervest for the protection of the chest, back, and igniter (not to be attached to burner). arms when wearing an ordinary dress or to employ the garment as a corset-cover when wearing a low-necked dress.

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. INDEX OF INVENTIONS

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 the information. In every case it is necessary to give the number of the inquiry. MUNN & CO.

Marine Iron Works. Chicago. Catalogue free. Inquiry No. 3156.—For manufacturers of axio

AUTOS.-Durvea Power Co., Reading, Pa.

Inquiry No. 3157.—For manufacturers of glass bottles holding 5 quarts to the gallon, for carbonated spring water.

For mining engines. J. S. Mundy, Newark, N. J. Inquiry No. 3158.-For dealers in old rubber.

"U. S." Metal Polish. Indianapolis. Samples free.

Inquiry No. 3159.—For makers of heaters using wood for fuel. WANTED .- You to read ad. page 195 Metal Working

Plant for Sale.

Inquiry No. 3160.—For photographic nickel-in-the-slot machines. Handle & Spoke Mchy. Ober Mfg. Co., 10 Bell St.,

Chagrin Falls, O. Inquiry No. 3161.—For makers of molds for making soap.

Sawmill machinery and outfits manufactured by the

Lane Mfg. Co., Box 13, Montpelier, Vt.

Inquiry No. 3162.—For manufacturers of engraving machinery for button making.

Let me sell your patent. I have buyers waiting. Charles A. Scott, Gravite Bldg., Rochester, N. Y.

Inquiry No. 3163.—For makers of portable saw

Die work, experimental work and novelties manufactured. American Hardware Mfg. Co., Ottawa, Ill.

Inquiry No. 3164.—For makers of small clamps for paper.

Book "Dies and Diemaking," 100 6x9 pages, \$1, postpaid. Send for index. J. L. Lucas, Bridgeport, Conn.

Inquiry No. 3165.—For steel framing, girders, etc., for the construction of buildings.

We design and build special and automatic machinery for all purposes. The Amstutz-Osborn Company, Cleveland, Ohio.

Inquiry No. 3166.—For makers of appliances for distributing a dry powder fire extinguisher on fires.

IDEAS DEVELOPED.-Designing, draughting machine work for inventors and others. Charles E. Hadley, 584 Hudson Street, New York.

finquiry No. 3167.—For an ice machine, capacity 300 pounds per day.

Automobiles built to drawings and special work done promptly. The Garvin Machine Co., 149 Varick, cor. Spring Streets, New York.

Inquiry No. 3168.—For parties to manufacture patent cutlery.

Manufacturers of patent articles, dies, stamping tools, light machinery. Quadriga Manufacturing Com-pany, 18 South Canal Street, Chicago.

Inquiry No. 3169.—For makers of hand and steam laundry machinery.

FOR SALE.—Patent No. 670,482. Hat-fastener. Clasps head as did elastic, but is concealed under hair. Address Dr. Emma T. Willis, Urumia, Persia.

Inquiry No. 3170.—For information relative to the use of compressed air for elevating water from deep wells. The largest manufacturer in the world of merry-go

rounds, shooting galleries and hand organs. For prices and terms write to C. W. Parker, Abilene, Kan. Inquiry No. 3171.—For a machine for breaking eggs and separating the shells.

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

Inquiry No. 3172.-For makers of small electro-The best book for electricians and beginners in elec-

tricity is "Experimental Science," by Geo. M. Hopkins. By mail. \$4. Munn & Co., publishers. 361 Broadway, N.Y. Inquiry No. 3173.—For makers of automatic magnet winders

WANTED.-Machines for splitting cane for manufacturing chairs, etc. Send catalogues and best prices. W. E. Richardson, Boustead Institute, Singapore, Straits Settlements.

Inquiry No. 3174.—For manufacturers of novelties and specialties.

One of the handsomest tool catalogues has just been is ued by Montgomery & Co., 105 Fulton St., New York. There is hard y a tool manufactured which is not illustrated and described in this useful volume. Every mechanic should have one.

Inquiry No. 3175.-For dealers in diving suits and submarine workers' supplies.

WANTED.-Assistant superintendent in factory em-

Inquiry No. 3176 .- For makers of aluminium

 $\label{eq:wanted} \textbf{Wanted.-A capitalist to take half of a valuable lot}$ of patents for the United States in the hands of a company, and would be director in the general branch. This company will eventually outvie the Steel Trust. He would receive ten thousand shares in the general branch in addition to half of the patents business of the United States. For information apply to manager

Prince Albert Sask Surfacest Territory, Canada.

luquiry No. 3177.—For makers of sheet steel shovels, forks, picks, etc.

Send for new and complete catalogue of Scientific New York. Free on application.

Inquiry No. 3178.—For dealers in second-hand asoline engines and launches.

Inquiry No. 3180.—For parties to manufacture hooks and eyes.

Inquiry No. 3181.-For makers of machines for grinding leather.

Inquiry No. 3182.-For parties to do twisted wire work in large quantities. Inquiry No. 3183. -For power machines for perforating sheet metal.

For which Letters Patent of the United States were Issued for the Week Ending

September 9, 1902,

### AND EACH BEARING THAT DATE.

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

Acid and making same, paramethyl-amido- phenylglyoxylic, F. Ach	708,511
Aerated waters on draft, apparatus for serving, J. P. Jackson	708,714
Air cooling and purifying apparatus, C. W. Vollmann Alloy antifriction metal Pearse & Levers	708,847 708,580
Alumina from silica, separating, A. Kayser. 'Aluminium capable of being welded or sol-	708,561
dered, rendering, C. P. Sorensen	708,846 708,599
Schofield	708,834 708,638
Ash tray, P. Kulicke Automatic alarm, J. F. Laird	708,650 708,816
Ball apparatus, captive, E. H. Miles	708,641 708,573
W. J. Stent	708,934 708,746
Barrels, machine for making veneer, W. C. Grant	708,633
Brown  Britery place manufacturing secondary	708,955
Basket forming and stapling machine, N. E. Brown Battery plates, manufacturing secondary, G. H. Christian	708,695 708,936
Bearing, roller side, J. C. Wands	708,601 708,565
Bevel and square, A. C. Cullmann Billiard cushion. B. A. Stevens	708,856 708,533 708,744
Bin. See Grocer's bin. Bleaching apparatus, C. C. Clark	708,796
Blind, window, W. R. Briggs Blotter or desk pad, G. W. Buskirk	708,618 708,525 708,716
Boat, submarine, J. P. Holland Bolt machine. C. K. Lassiter	708,716 708,553 708,891
Boring and drilling machine, B. E. Hervey.	708 898
Bottle stopper, M. Pitts	708,881 708,545 708,732 708,749
Billiard cushion, B. A. Stevens.  Bin. See Grocer's bin.  Bin. See Grocer's bin.  Bleaching apparatus, C. C. Clark  Blind, window, W. R. Briggs  Blotter or desk pad, G. W. Buskirk.  Blowing engine, W. Kennedy  Boat, submarine, J. P. Holland  Bolt machine, C. K. Lassiter.  Bone black kiln, W. T. Mohr  Boring and drilling machine, B. E. Hervey.  Bottle stopper, M. Pitts.  Bottle stopper, M. C. Wilson.  Bottles or jars, metal cap for, C. A. Calleson  Bowling alley, C. J. Olson  Bow, E. T. Noble  Box covering machine, C. B. Baldwin  Box fastening, E. Fletcher  Brake mechanism, D. S. Sebastian	708.528
Bowling alley, C. J. Olson	708,779 708,578
Box fastening, E. Fletcher	708,515 708,702 708,837
Brick press, J. J. Nieters	708,704 708,778
Buggy boot attachment, A. W. Wilson Building block die N. Merley	708,621 708,686 708,725
Building renovating apparatus, D. F. Saun. Buildings, construction of metallic frame,	708,922
C. E. Hebberd Button, F. E. Stanley Button, J. Hilden	708,548 708,673
Box fastening, E. Fletcher. Brake mechanism, D. S. Sebastian. Brake shoe, J. D. Gallagher Brick press, J. J. Nieters Buggy, baby, R. B. Coffman Buggy boot attachment, A. W. Wilson. Building block die, N. Merley. Building renovating apparatus, D. F. Saun. Building renovating apparatus, D. F. Saun. Buildings, construction of metallic frame, C. E. Hebberd Button, F. E. Stanley Button, J. Hilder Button polishing machine, J. Hormby. Calcium carbid, manufacturing, I. L. Roberts Calipers, micrometer, J. T. Slocomb. Calk cutting machine, F. E. Seagren. Camera, H. W. Locke	708,711 708,768
calipers, micrometer, J. T. Slocomb	708,921 708,931
Calk cutting machine, F. E. Seagren. Camera, H. W. Locke Camera for producing and viewing images in natural colors, photographic, E. T. Butler Can opener, C. T. Custer Cane unloading machine, W. C. Gregg. Car coupling, T. F. Melanson. Car coupling, R. O. Yearwood Car coupling, R. O. Yearwood Car coupling, G. Westinghouse Car door, F. G. Susemihl Car door, fush, It. Osel Car fender, E. C. Moulton. Car street indicator, street, J. F. Richard-	708,931 708,925 708,721
in natural colors, photographic, E. T. Butler	708,795
Can opener, C. T. Custer  Cane unloading machine, W. C. Gregg  Car coupling, T. F. Melanson	708,801 708,634 708,571
Car coupling, C. A. Tower	708,681 708,690
Car door, F. G. Susemihl	708,747 708,843 708,914
Car fender, E. C. Moulton	708,899
Cars, device for connecting the electrical gear of electric, A. Siemens	708,832 708,927
	708,734
Cars, emergency brake for tramway, C. Real Cars, friction draft rigging for railway, J. J. Hennessey Carbureter, Paul & Gundlack Carpet stretcher, M. E. Shinn Carpet sweeper, J. Barnes et al. Carpet, wood, Stille & Billings. Carrying and transferring device, J. H. Sinnott	708,550 708,826
Carpet stretcher, M. E. Shinn	708,826 708,974 708,614
Carpet, wood, Stille & Billings	708,842 708,595
Cash register and till, Macculloch & Dick-	708,894
inson Caster, furniture, W. J. Martin. Casting apparatus, D. T. & S. W. Croxton, reissue	708,895 12,028
reissue Catamental sack, M. M. Spaulding Catch, D. W. McClay	708,933 708,903
Catamental sack, M. M. Spaulding	708,643 708,924 708,911
Chair fan attachment, rocking, J. S. Mc- Keever	708.905
Chart, adjustable, H. S. Chandler Chuck, C. H. Reid	708,754 708,735 708,665
Churn, Riggins & Gordan Cigars, machine for boxing little, G. M. Williams Circuit breaker, E. M. Hewlett	708,789 708,710
Cleaning and polishing composition, I.  Stern	108,110
Clock, self-winding, C. Hour	708,743
Clock striking mechanism, F. W. Inden	708,743 708,886 708,769
Clock striking mechanism, F. W. Inden Clutch, P. A. Houghtaling, reissue Coating metals preparatory to being heated, H. Wachwitz	708,886
Clock striking mechanism, F. W. Inden. Clutch, P. A. Houghtaling, reissue. Coating metals preparatory to being heated, H. Wachwitz Cock and safety valve, combined gage, A. C. Calder Cock gage W. Straf	708,886 708,769 12,030 708,788
Clock striking mechanism, F. W. Inden. Clutch, P. A. Houghtaling, reissue. Coating metals preparatory to being heated, H. Wachwitz  Cock and safety valve, combined gage, A. C. Calder  Cock, gage, W. I. Staaf Coin holder, S. Ray. Coins, etc., receptacle for, C. B. Pike	708,886 708,769 12,030 708,788
Clock striking mechanism, F. W. Inden. Clutch, P. A. Houghtaling, reissue. Coating metals preparatory to being heated, H. Wachwitz Cock and safety valve, combined gage, A. C. Calder Cock, gage, W. I. Staaf Coin holder, S. Ray Coins, etc., receptacle for, C. B. Pike Comb. See Currycomb. Commutator brush holder, W. J. Richards. Composition of matter. Livingstone & Van-	708,886 708,769 12,030
Cleaning and polishing composition, I. Stern Clock, self-winding, C. Hour Clock striking mechanism, F. W. Inden Clutch, P. A. Houghtaling, reissue Coating metals preparatory to being heated, H. Wachwitz Cock and safety valve, combined gage, A. C. Calder Cock, gage, W. I. Staaf Coin holder, S. Ray. Commutator brush holder, Comb. See Currycomb. Commutator brush holder, W. J. Richards. Composition of matter, Livingstone & Vandercook Condensing or cooling apparatus, C. C.	708,886 708,769 12,030 708,788 708,527 708,785 708,733 708,731 708,664 708,774
Condensing or cooling apparatus, C. C. Hill Conveyor, endless, J. M. Dodge	708,886 708,769 12,030 708,788 708,527 708,785 708,733 708,664 708,774 708,712 708,759
Condensing or cooling apparatus, C. C. Hill Conveyor, endless, J. M. Dodge Conveyor, horizontal, J. M. Dodge	708,886 708,769 12,030 708,788 708,785 708,733 708,731 708,664 708,774 708,712 708,759 708,698
Condensing or cooling apparatus, C. C. Hill Conveyor, endless, J. M. Dodge Conveyor, horizontal, J. M. Dodge	708,886 708,769 12,030 708,788 708,785 708,733 708,731 708,664 708,774 708,712 708,759 708,698
Condensing or cooling apparatus, C. C. Hill Conveyor, endless, J. M. Dodge Conveyor, horizontal, J. M. Dodge	708,886 708,769 12,030 708,788 708,785 708,733 708,731 708,664 708,774 708,712 708,759 708,698
Condensing or cooling apparatus, C. C. Hill Conveyor, endless, J. M. Dodge Conveyor, horizontal, J. M. Dodge	708,886 708,769 12,030 708,788 708,785 708,733 708,731 708,664 708,774 708,712 708,759 708,698
Condensing or cooling apparatus, C. C. Hill Conveyor, endless, J. M. Dodge Conveyor, horizontal, J. M. Dodge	708,886 708,769 12,030 708,788 708,785 708,733 708,731 708,664 708,774 708,712 708,759 708,698
Condensing or cooling apparatus, C. C. Hill Conveyor, endless, J. M. Dodge Conveyor, horizontal, J. M. Dodge	708,886 708,769 12,030 708,788 708,785 708,733 708,731 708,664 708,774 708,712 708,759 708,698
Condensing or cooling apparatus, C. C. Hill Conveyor, endless, J. M. Dodge Conveyor, horizontal, J. M. Dodge	708,886 708,769 12,030 708,788 708,785 708,733 708,731 708,664 708,774 708,712 708,759 708,698
Condensing or cooling apparatus, C. C. Hill Conveyor, endless, J. M. Dodge Conveyor, horizontal, J. M. Dodge Corkscrew, R. Runnalls Corset, J. Lindauer Corset attachment and stocking supporter, L. B. Ingham Cot, folding, J. Davidoff Crate, banana, W. R. Montgomery. Crate, knockdown shipping, J. F. Lay. Cream separator, C. B. Phillips Cream separator, M. A. Comstock Currycomb, Tepfer & Heltner Daddo cutter, C. H. Archer Damper, C. Loeffler Damper operating apparatus, Grobet & Bernasconi Delivery mechanism, W. Scott Dental bridges, machine for forcibly casting, M. W. Hollingsworth Dental bridges, machine for forcibly casting, M. W. Hollingsworth	708,886 708,769 12,030 708,788 708,785 708,785 708,733 708,731 708,664 708,774 708,759 708,698 708,697 708,651 708,665 708,865 708,865 708,865 708,865 708,867 708,867 708,867 708,867 708,867 708,867 708,875 708,867 708,875 708,875 708,875 708,877 708,875
Condensing or cooling apparatus, C. C. Hill Conveyor, endless, J. M. Dodge Conveyor, horizontal, J. M. Dodge Corkscrew, R. Runnalls Corset, J. Lindauer Corset attachment and stocking supporter, L. B. Ingham Cot, folding, J. Davidoff Crate, banana, W. R. Montgomery. Crate, knockdown shipping, J. F. Lay. Cream separator, C. B. Phillips Cream separator, M. A. Comstock Currycomb, Tepfer & Heltner Daddo cutter, C. H. Archer Damper, C. Loeffler Damper operating apparatus, Grobet & Bernasconi Delivery mechanism, W. Scott Dental bridges, machine for forcibly casting, M. W. Hollingsworth Dental bridges, machine for forcibly casting, M. W. Hollingsworth	708,886 708,769 12,030 708,788 708,785 708,785 708,733 708,731 708,664 708,774 708,759 708,698 708,697 708,651 708,665 708,865 708,865 708,865 708,865 708,867 708,867 708,867 708,867 708,867 708,867 708,875 708,867 708,875 708,875 708,875 708,877 708,875
Condensing or cooling apparatus, C. C. Hill Conveyor, endless, J. M. Dodge Conveyor, horizontal, J. M. Dodge Corkscrew, R. Runnalls Corset, J. Lindauer Corset attachment and stocking supporter, L. B. Ingham Cot, folding, J. Davidoff Crate, banana, W. R. Montgomery. Crate, knockdown shipping, J. F. Lay. Cream separator, C. B. Phillips Cream separator, M. A. Comstock Currycomb, Tepfer & Heltner Daddo cutter, C. H. Archer Damper, C. Loeffler Damper operating apparatus, Grobet & Bernasconi Delivery mechanism, W. Scott Dental bridges, machine for forcibly casting, M. W. Hollingsworth Dental bridges, machine for forcibly casting, M. W. Hollingsworth	708,886 708,769 12,030 708,788 708,785 708,785 708,733 708,731 708,664 708,774 708,759 708,698 708,697 708,651 708,665 708,865 708,865 708,865 708,865 708,867 708,867 708,867 708,867 708,867 708,867 708,875 708,867 708,875 708,875 708,875 708,877 708,875
Condensing or cooling apparatus, C. C. Hill Conveyor, endless, J. M. Dodge Conveyor, horizontal, J. M. Dodge Corkscrew, R. Runnalls Corset, J. Lindauer Corset attachment and stocking supporter, L. B. Ingham Cot, folding, J. Davidoff Crate, banana, W. R. Montgomery. Crate, knockdown shipping, J. F. Lay. Cream separator, C. B. Phillips Cream separator, M. A. Comstock Currycomb, Tepfer & Heltner Daddo cutter, C. H. Archer Damper, C. Loeffler Damper operating apparatus, Grobet & Bernasconi Delivery mechanism, W. Scott Dental bridges, machine for forcibly casting, M. W. Hollingsworth Dental bridges, machine for forcibly casting, M. W. Hollingsworth	708,886 708,769 12,030 708,788 708,785 708,785 708,733 708,731 708,664 708,774 708,759 708,698 708,697 708,651 708,665 708,865 708,865 708,865 708,865 708,867 708,867 708,867 708,867 708,867 708,867 708,875 708,867 708,875 708,875 708,875 708,877 708,875
Condensing or cooling apparatus, C. C. Hill Conveyor, horizontal, J. M. Dodge Conveyor, horizontal, J. M. Dodge Conveyor, horizontal, J. M. Dodge Corset, J. Lindauer Corset, J. Lindauer Corset attachment and stocking supporter, L. B. ingham Cot, folding, J. Davidoff Crate, banana, W. R. Montgomery. Crate, konckdown shipping, J. F. Lay Cream separator, C. B. Phillips Cream separator, M. A. Comstock Currycomb, Tepfer & Heltner. Dado cutter, C. H. Archer. Damper, C. Loeffler Damper operating apparatus, Grobet & Bernasconi Delivery mechanism, W. Scott Dental bridges, machine for forcibly casting, M. W. Hollingsworth Dental gold aquivaler, C. F. Lauderdale. Disniceryl-diamin and msking same, F. Ach. Disnicerator attachment, Samuelson & Johnson Ditching machine, T. Bearman Door check and closer, X. Reichlin Door holder or bolt, W. J. Chaffer Door, swinging, H. Meyer Drawer for furniture, etc., C. Mayer.	708,886 708,769 12,030 708,788 708,785 708,785 708,733 708,731 708,664 708,774 708,759 708,698 708,697 708,651 708,665 708,865 708,865 708,865 708,865 708,867 708,867 708,867 708,867 708,867 708,867 708,875 708,867 708,875 708,875 708,875 708,877 708,875