RECENTLY PATENTED INVENTIONS.

Agricultural Implements.

tor has devised a simple and cleanly construction of upright churn and driving mechanism readily attachable to and detachable from the churn. The mechanism in question consists of a bevel-gear, the periphery of which is engaged by two bevel-pinions. One bevel pinion is loosely mounted on the dasher-shaft, and the other is rigidly secured to the shaft. By means of this construction, the body of the churn is turned in one direction and the dasher in the opposite direction.

CHURN.-WICKLIFF B. MITCHELL. Owensburg, Ind. To secure a quick forward and backward turning motion of the dasher Mr. Mitchell employs a novel means of adjusting the height of the dash. Arms extend outward from a standard and have forked ends forming bearings for the dasher-rod. A series of annular channels are formed in the rod; and flanges on the forked members of one of the arms engage in any of the channels to support the rod in adjusted vertical position.

PLOW .- JOHN N. HANNA. Del Norte, Colo. The invention relates to a class of plows provided with two shares and moldboards located at opposite beams, and with means for bringing either share and its moldboard in operative connection with a common landside. The invention simplifies the construction of such plows and provides an adjustable beam so arranged that but little strain will be sustained by the handles. The beam is so shaped that large or small sized moldboards can be employed. A turning and locking device for the shares and their moldboards is located within convenient reach from the handle.

Engineering Improvements.

BOILER.-PERCY W. HANFORD, Oakesdale, Wash. This boiler includes in its construction a vessel having a burner and a regulating-valve controlled by the pressure an opening at the top for the water to pass into the a combustion-chamber for the burner. The boiler, it is claimed, is a good steam-producer and burns little fuel.

Railway Appliances.

TRAIN AIR-SIGNALING APPARATUS. - James II. TURBUSH, Bronx, New York city. This invention its lower end connected with the partition at the openrelates to air-pressure brakes of the Westinghouse type, ing therein. Below the opening is a fire-pot in the hotand its object is to provide a train air-signaling apparatus, whereby the separate signal-pipe now used is dis-drum partially surrounded by a deflector-plate. The pensed with and the train-pipe and its pressure, as well as the engineer's valve, are made use of to actuate the the stove and other features effectively avoid the collecwhistle and give the desired signals to the engineer by tion of gas. the conductor of the train, no matter what position the engineer's valve is in.

CAR-FENDER. - JOSEPH W. McKEAN, Charleroi. Penn. The fender is mounted to swing by means of a simple and ingenious mechanism. On the car-axle is a gear-wheel engaged by a movable tooth. The movement of the tooth imparts a positive swinging motion to an object on the track from passing under the car-wheels. The arrangement operates automatically.

Mechanical Devices.

COFFEE MILL. - George H. Droege, Brooklyn, New York city. The coffee-mill is self-measuring, the construction being such that the hopper can be filled in the usual way and that cut-offs can be adjusted to pass through the slots and separate a certain quantity from the bulk of beans, which quantity alone will be ground. The slots mentioned can be so gaged that each division in the hopper will represent enough beans when ground to make a certain number of cups of coffee of average strength.

ROCK-DRILL FORGING AND SHARPENING MACHINE. - WILLIAM J. EVANS, Butte, Mont. A number of dies are adapted to upset and sharpen the cutting edges of a four-winged drill. A drill-supporting device is provided comprising a horizontal guideway on which a carriage is movable. The carriage can be held at different points on the guideway. A cam-head is held to rock on a pivot-shaft between uprights on the carriage. Handle-arms on the pivot-shaft of the cam-head are adapted by manipulation to rock the cam toward an end of a drill-shank, to feed it up against the impact of the edge-sharpening die.

GRAIN-DRIER. - George Werner, Brooklyn, and JOHN H. HILLIKER, Richmond Hill, Queens, New York city. The machine is especially designed for rapidly and thoroughly drying wet grain, such as spent brewer's malt. In the heating-chamber of a furnace drums are mounted to rotate. The drums are alternately inclined in opposite directions and geared together at their confurnace over the projecting ends of the drums. Stirrers are arranged in the drums with their shafts projecting provided for operating the drums and beaters. A hop. fingers to such a position that the cartridges in the magamechanism.

WASHING-MACHINE. - PENTON A. HARDWICK, Colorado City, Colo. The purpose of the invention is to improve that class of washing-machines provided with means for introducing steam into the washing-chamber, and so to construct the machine that it can be used for drying feathers or clothes or for dampening clothes for ironing. A tub is employed, provided with a double bottom and an outlet and a grating adjacent to the outlet. withdrawing a cartridge. The outer section of the bottom is eccentric to the inner i section. A nozzle leads into the upper portion of the chamber formed by the double bottom of the tub. A double nozzle communicates with this chamber and with the exterior and interior of the tub.

DEVICE FOR FIXING SHANKS OR SCREW-STEMS IN HANDLE-KNOBS OR PICTURE HANG-ING NAILS.-SERAPHIN KRIBS, Brooklyn, New York screws of handle knobs and picture-hanging nails while of this paper.

in process of manufacture, the handle-bodies being formed of molten glass, clay, or any suitable plastic material. The employment of the machine facilitates the CHURN.—James M. Goss, Pekin, Ind. The inven-manufacture of door or drawer-knobs and insures perfect attachment of shanks or screw-stems thereto. The attached parts project axially from the knob-bodies, which is very important and is not the case when ordinary means for attaching the shanks or screw-stems to knobs are employed.

Miscellaneous Inventions.

CAMP COOKING-STOVE. - WILLIAM C. LANDY, Manhattan, New York city. The invention provides a combined range, cooker, and field-kitchen which simplifies out-door cooking, obviates wastefulness of food and fuel, and tends to minimize danger of scorching. The stove folds up and occupies but a small space and can be readily disconnected. Even the largest size of stove will fit any of the army wagons.

TRUCK .- JOHN MEANEY and JOHN STOEVER, Ridgefield Park, N. J. It is a common objection that it is necessary in the use of hand-trucks first to move the truck up to the object to be carried and then to tilt the object back upon the truck, whereupon the truck itself is thrown downward so as to bear the load. Before the truck can be thus thrown down, it will invariably jump or move backward. The present invention provides a simple attachment for the truck which will prevent this action.

TENT.-THADDEUS D. McCAIL, Wichita, Kans. Mr. McCall has devised a convenient and easily-portable tent for campers, which requires no poles, has a canvas floor, and can be suspended and used as a hammock.

ANTISEPTIC BROOM.-OSCAR S. KULMAN, Savannah, Ga. We have frequently had occasion to notice the various inventions in antiseptic brooms which Mr. Kulman has patented. In this new improvement an antiseptic retainer is inclosed within the wisps of the broom, so that the antiseptic can be fed in sweeping. in the vessel. A water-chamber connected with a water- | The end of the broom-handle which enters the antisupply is located over the burner and is provided with septic-retainer is longitudinally bored slightly above the wrappings of wire. At the upper end of the chanchamber. The opening also serves for the escape of the 'nel thus formed a transverse opening is bored, through vapors. The bottom of the chamber is concaved to form | which fresh antiseptic can be fed to the retainer whenever it may be desired.

> HEATING-STOVE.-ATEN B. Hower, Baker City, Ore. By means of a transverse partition the stove is divided into cold-air and hot-air compartments, the partition being formed with an opening near its lower end. In the cold-air compartment is a fuel magazine having air compartment; and above the fire-pot is a heatingseparation of the fuel-magazine from the heating part of

> CARD-GAME.—EDWARD CHRISTIE, Corning, N. Y. The inventor has devised a new card-game which consists of five suits and two extra cards, all designed after an entirely new plan. Various games can be played with these cards, the preferred rules being described in detail in the patent specification.

FIRE-PLACE. - NATHANIEL BATES, Dubbs, Miss. the fender. The object of the construction is to prevent. This invention is an improvement in fire-places which are formed in flat plates, sections, or pieces secured together. The fire-place can be quickly and economically constructed, and, if desired, may be incased or inclosed at its back, sides, and upper portion by masonry, brick-parts; acetic acid, 1 part. Dissolve by aid of heat and work, or the like.

> CANVAS-STRETCHER .-- ARTHUR F. TAIT, YONKERS, N. Y. The stretcher is extended and positively held in adjusted position through the medium of properly-applied keys. The corners of the stretcher are strengthened and maintained in proper shape. The central por-tion is braced; and the outer members can be expanded at such point in about the same ratio as the corners. A cardboard or strawboard is placed upon the front face of the stretcher, which affords an extended bearing for the canvas and a firm working surface for the artist

> FOUNTAIN-PENHOLDER.—Seneca M. and Elmer E. Salisbury, Aberdeen, S. D. Almost any pen cau be inserted in this holder and can be used as if an ordinary holder were employed, without the annoyance of stopping to dip the pen into an ink-well or frequently to fill the reservoir as in the case of an ordinary fountain-pen. The fountain-pen is provided not only with a large reservoir for ink, but also with a convenient means the reservoir may be filled in a cleanly manner and the ink supplied to the nib of the pen.

> INKSTAND.-CHARLES W. HAMSHAW, Lamar, Mo. The inkstand comprises a base and an ink-receiver provided with a dip-cup whereby the pen will receive only a proper amount of ink. Hence all the ink in the reservoir can be directed to and used up in the well torming a portion of the receiver. By a special pivotal mounting the receiver can be tilted toward the writer, so that the pen can be handily inked.

verging ends. Boxes are arranged at the ends of the BREECH-LOADING FIREARM. - FREDERICK and the excellent works on the subject have done much HOCHBRUNN, Manhattan, New York city. A controllingring or through the boxes and geared together. Mechanism is being of such construction that it can be turned by the per discharges into one of the boxes and is provided with | zine will not be affected when the extractor is brought a rotary feed device driven from the stirrer-operating into action. By means of this arrangement the arm while the magazine is filled, can be used as a single leader. When the ring is brought to such a position that it will act upon both the extractor and the cartridges in the magazine, the gun can be used as a simple repeater. The ring is so arranged relatively to the bolt and the extractor, that it is carried out of engagement with the extractor and the cartridges, enabling the bolt to be withdrawn and the magazine replenished without

Designs.

BREAD-BOARD - ISRAEL S THOMPSON, Ashland Wis. The board has a rim extending above its top and below its bottom, so that it can be used for making bread on both sides.

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(7987) F. W. Q. writes: A few months ago. I read an account in the SCIENTIFIC AMERICAN Supplement about renewing dry batteries by putting holes in the cell and immersing it in acidulated water. Would you please inform me the name of the acid and how proportion it with water? A. To renew a dry cell by the method referred to, pour one part of sulphnric acid into ten parts of water. Punch many holes in the outer coating of the dry cell as directed in the note referred to. When the liquid becomes cold, put it into any convenient glass or earthen jar, and place the prepared dry cell in the jar, so that the top stands out of the liquid about one inch. You now have a wet cell in place of the worn-out dry one, which will run till the acid has dissolved the zinc of the dry cell. 'This is the renewing of a dry cell. It changes the dry into a wet cell.

(7988) E. M. S. asks: Wll you please send me the recipe for making the glue used on the backs add 1 part of 90 per cent alcohol.

(7989) W. G. asks: Will you please tell me if there is anything flexible that electricity will not burn? A. Asbestos.

NEW BOOKS, ETC.

MEMOIRS OF HAYWARD AUGUSTUS HAR-VEY. By His Sons. New York. Printed for Thomas W. Harvey, M.D. Orange, N. J. 1900, 12mo, Pp. 98.

The late Mr. Harvey was a typical inventor, and on the occasion of his death we published an elaborate biographical notice. The present memoirs compiled by his son give a thoroughly adequate idea of Mr. Harvey's epochmaking inventions. In addition to his process of treating armor plate, he also made many highly important inventions for making screws, spikes, wire nails, washers, etc. In all, Mr. Harvey had issued to him since 1859 seventy-eight patents, which is a most excellent record. The book is admirably written.

METHODS IN THE ART OF TAXIDERMY. By Oliver Davie. Philadelphia: David McKay. Pp. 359, 90 full page engravings. Price \$2.50.

The work is very fully illustrated by engravings which vary a good deal in quality. There is hardly a branch of natural history which is more interesting than taxidermy to aid taxidermists. Mr. Davie's book is a good one and shows an extensive practical acquaintance with the sub ject. The methods are modern and American.

STEAM ENGINE INDICATOR By Cecil H. Peabody. New York: John Wiley & Sons. 1900. 12mo. Pp. 153. Price \$1 50.

The number of books upon the indicator is already very large, but there always seems to be room for a new treatise on this subject. The author is admirably fitted for his task, as he has the professorship of marineengineering and naval architecture at the Massachusetts Institute of Technology. The book is an excellent one.

MOULDERS' TEXT BOOK. Being Part II. of American Foundry Practice. By Thomas D. West. Eighth Edition. New York: John Wiley & Sons. 1900. 12mo. Pp. 461. Price \$2 50.

The true test of the value of a technical book is to see whether it can run through a number of editions. The volume before us is certainly a most valuable contribu-

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Car wheel, I Hogeland Cars, etc., supporting strap for, L T. Yoder. Carbon, manufacturing, H. Wartenberg. Carbon, manufacturing, H. Wartenberg. Carbonating apparatus, liquid, A. Wall Case and chair, combined, H. Flanders. Chain and wheel therefor, drive, J. C. Pratt Chain, sheet metal, F. E. Vandercook. Chain tightener, H. Green Chair, E. E. Koken Chair, E. E. Koken Chair, E. E. Koken Chair, be unfant's chair. Chair, E. E. Koken Chair, E. E. Koken Chair ightener, J. Moonelis Cleaner. See Sieve cleaner. Tube cleaner. Cleaning and painting or treating surfaces submerged in water, D. Mason. Clutch, fluid, J. T. Ryther Cock of faucet. self closing. F. H. Stahl	660,958 660,659 660,693 660,740 660,707 660,989 661,021 660,670 660,875 660,678 660,878 660,975 660,975 660,975 660,975 661,001 661,001
Car wheel, I Hogeland Cars, etc., supporting strap for, L T. Yoder Carbon, manufacturing, H. Wartenberg. Carbon, manufacturing, H. Wartenberg. Carbonating apparatus, liquid, A. Wall Case, stretcher, L. M. Lownes Case and chair, combined, H. Flanders Chain and wbeel therefor, drive, J. C. Pratt Chain and wbeel therefor, drive, J. C. Pratt Chain tightener, H. Green Chair, E. E. Koken Chair, E. E. Koken Chair, E. E. Koken Chair, E. E. Koken Chair in holder, J. A. Vernon Cligarette machine, J. Moonelis Cleaner. See Sieve cleaner. Tube cleaner. Cleaning and painting or treating surfaces submerged in water, D. Mason. Clutch, fluid, J. T. Ryther Cock or faucet, self closing, F. H. Stahl Coffee, preserving roasted, S. Feitler Coffee, preserving roasted, S. Feitler	660,985 660,693 660,740 660,707 660,989 661,021 660,670 660,672 660,672 660,875 660,975 660,975 660,975 660,975 660,975 661,071 661,071 661,071 661,071
Car wheel, I Hogeland Cars, etc., supporting strap for, L T. Yoder Carbon, manufacturing, H. Wartenberg. Carbon, manufacturing, H. Wartenberg. Carbonating apparatus, liquid, A. Wall Carpet stretcher, L. M. Lownes Case. See Sterilizing case. Case and chair, combined, H. Flanders Chain and wbeel therefor, drive, J. C. Pratt Chain and wbeel therefor, drive, J. C. Pratt Chain itightener, H. Green Chair, E. E. Koken Chair, E. E. Koken Chair, E. E. Koken Claning on yainting or treating surfaces submerged in water, D. Mason Cleaner. See Sieve cleaner. Tube cleaner. Clutch, fluid, J. T. Ryther Clutch, fluid, J. T. Ryther Coat, apparel, F. G. Dodshon. Cock or faucet, self closing, F. H. Stahl Coffee, preserving roasted, S. Feitler Coffiee, ripening, T. R. Timby Coffin handle, M. G. Wheeler	660,958 660,658 660,693 660,740 660,989 661,021 660,605 660,670 660,670 660,975 660,975 660,779 661,005 661,007
car wheel, I Hogeland Car wheel, I Hogeland Cars, etc., supporting stap for, L T. Yoder. Carbon, manufacturing, H. Wartenberg. Carbonating apparatus, liquid, A. Wall Carpet stretcher, L. M. Lownes Case and chair, combined, H. Flanders Chain and wheel therefor drive, J. C. Pratt Chain, sheet metal, F. B. vandercook Chair is the light of the chair Chair is the	660,955 660,655 660,693 660,707 660,989 661,605 660,605 660,605 660,605 660,975 660,98
Cake making machine, striped, Barher & Furner. Caloric engine, J. T. Nicolson. Can. See Sheet metal can. Candle holder, M. Hagen. Candlestick and combination implement, miner's. F. Herbst. Candy machine, T. J. Jenkins. Car body bolster, railway, E. W. Paimquist. Car buffer, street. P. M. Kling. Car coupling, W. McConway. Car door, fastener, Pries & Meyer. Car door, grain, J. Clarke. Car fender, street, H. Furstenau. Car fender, street, H. Furstenau. Car fender, street, H. Furstenau. Car fender, trolley, L. Madas. Car loader, H. P. Harpstrite. Car seat, P. M. Kling. Carseat foot rest, W. M. Norcross. Car track brake, railway, Lowe & Meighan. Cars, etc., supporting strap for, L. T. Yoder. Carbon, manufacturing, H. Wartenberg. Carbonating apparatus, liquid, A. Wall. Carpet stretcher, L. M. Lownes. Case. See Sterilizing case. Case and chair, combined, H. Flanders. Chain and wbeel therefor, drive, J. C. Pratt. Chain, sheet metal, F. B. Vandercook. Chain tightener, H. Green. Chain see Infant's chair. Chair, E. E. Koken. Chair, E. E. Koken. Chair, See Infant's chair. Chair, E. See Sieve cleaner. Tube cleaner. Cleaning and paintink or treating surfaces submerged in water, D. Mason. Cock or faucet, self closing, F. H. Stahl. Coffee, preserving roasted, S. Felter. Contontrolled attachment, F. P. Cox. Collar and necktie fastener, H. B. Barnes. Communicator traing device, P. B. Bosworth.	660,955 660,658 660,707 660,989 660,707 660,989 661,005 660,605 660,605 660,97
Car wheel, I Hogeland trap for, L T. Yoder Carbon, manufacturing, H. Wartenberg Carbon, manufacturing, H. Wartenberg Carbonating apparatus, liquid, A. Wall. Carpet stretcher, L. M. Lownes. Case. See Sterilizing case. Case and chair, combined, H. Flanders. Chain sheet metal, F. B. Vandercook. Chain sheet metal, F. B. Vandercook. Chain tightener, H. Green. Chair, See Infant's chair. Chair, E. E. Koken. Chair, E. E. Koken. Chair, E. E. Koken. Chair, E. E. Koken. Chair, E. Chair, C. Case and Chair, Chair, C. Case. Chair, J. A. Vernon. Chairney cowi, J. Clarkson. Cleaning and paintink or treating surfaces submerged in water, D. Mason. Cod crusher, J. Schoeler. Clutch, fluid, J. T. Ryther. Coat, apparel, F. G. Dodshon. Cock or faucet, self closing, F. H. Stahl. Coffee, preserving roasted, S. Feitler. Confee, preserving roasted, S. Feitler. Confee, preserving roasted, S. Feitler. Confee, Controlled attachment, F. P. Cox. Collar and necktie fastener, H. B. Rarnes. Commutator truing device, P. B. Bosworth. Compressor, single cylinder compound, T. Grant Confectionery depokuting machine, G. Carkson.	660,935 660,935 660,707 660,989 660,707 660,989 661,025 660,605 660,605 660,97
Car wheel, I Hogeland Cars, etc., supporting strap for, L T. Yoder. Carbon, manufacturing, H. Wartenberg. Carbonating apparatus, liquid, A. Wall Case. See Sterilizing case. Case and chair, combined, H. Flanders. Chain and wbeel therefor, drive, J. C. Pratt Chain, sheet metal, F. E. Vandercook. Chain tightener, H. Green Chair, E. E. Koken. Chair, E. C.	660,955 660,955 660,693 660,740 660,989 661,055 660,605 660,605 660,605 660,605 660,605 660,975 660,975 660,975 660,749 661,007 660,985 661,007 660,985 661,007 660,985 661,007 660,985 661,007 661,00
Car wheel, I Hogeland Cars, etc., supporting strap for, L T. Yoder. Carbon, manufacturing, H. Wartenberg. Carbonating apparatus, liquid, A. Wall Case. See Sterilizing case. Case and chair, combined, H. Flanders. Chain and wheel therefor, drive, J. C. Pratt Chain, sheet metal, F. B. Vandercook. Chain tightener, H. Green Chair, E. E. Koken Chair, E. C. Case Cigarette machine, J. Moonelis Cleaner. See Sieve cleaner. Tube cleaner. Cleaning and painting or treating surfaces submerged in water, D. Mason. Clutch, fluid, J. T. Ryther. Coat, apparel, F. G. Dodshon Cock or faucet, self closing, F. H. Stahl Coffee, preserving roasted, S. Feitler Coffee, preserving roasted, S. Feitler Confeen freening. T. R. Timby Commutator truing device, P. B. Bosworth Compressor, single cylinder compound, T. Grant Confeontrolled attachment, F. P. Cox Collar and necktie fastener, H. B. Barnes. Commutator truing device, P. B. Bosworth Comperssor, single cylinder compound, T. Grant Confeontrolled attachment, F. P. Cox Collar and necktie fastener, H. B. Barnes. Commutator truing device, P. B. Bosworth Compersor, single cylinder compound, T. Grant Confeontrolled attachment, F. P. Cox Collar and necktie fastener, H. B. Barnes. Commutator truing device, P. B. Bosworth Concert & Klepetko Concert & Klepetko Concert Sudder and terming and temporatus.	660,955 660,655 660,693 660,740 660,989 661,055 660,605 660,605 660,605 660,605 660,605 660,605 660,605 660,605 660,605 660,605 660,605 660,605 660,605 660,749
Car wheel, I Hogeland Cars, etc., supporting strap for, L T. Yoder Carbon, manufacturing, H. Wartenberg. Carbon, manufacturing, H. Wartenberg. Carbonating apparatus, liquid, A. Wall Case. Stee Sterilizing case. Case and chair, combined, H. Flanders Chain and wbeel therefor, drive, J. C. Pratt Chain and wbeel therefor, drive, J. C. Pratt Chain itightener, H. Green Chair, E. E. Koken Cleaner. See Sieve cleaner. Tube cleaner. Cleaning and painting or treating surfaces submerged in water, D. Mason. Clod crusher, J. Schoeler Clutch, fluid, J. T. Ryther Cock or faucet, self closing, F. H. Stahl Coffee, preserving roasted, S. Feitler Confee, preserving roasted, S. Feitler Confee, inpening. "J. R. Timby Coffin handle, M. G. Wheeler Con controlled attachment, F. P. Cox Collar and necktie fastener, H. B. Barnes. Commutator truing device, P. B. Bosworth Compressor, single cy linder compound, T. Grant Con controlled attachment, F. P. Cox Commutator truing device, P. B. Bosworth Compressor, single cy linder compound, T. Grant Con controlled attachment, F. P. Cox Commutator truing device, P. B. Bosworth Compressor, single cy linder compound, T. Grant Confectionery depositing machine, G. Carkon Conveying and elevator apparatus, electric, Fischer & Klepetko Copper, gold, or silver, hardening and tempering, Comner & Bagby.	660,955 660,955 660,693 660,740 660,989 661,021 660,670 660,670 660,670 660,670 660,779 660,975 660,779
Car wheel, I Hogeland Cars, etc., supporting stap for, L T. Yoder. Carbon, manufacturing, H. Wartenberg. Carbon, manufacturing, H. Wartenberg. Carbonating apparatus, liquid, A. Wall Carpet stretcher, L. M. Lownes Case. See Sterlizing case. Case. See Sterlizing case. Case and chair. combined, H. Flanders Chain she wheel ther Low drive, J. C. Pratt Chain she wheel ther Low drive, J. C. Pratt Chain she wheel the F. L. Wandercook Chain See Infant's chair. Chain See Infant's chair. Chair See Infant's chair. Chair See Infant's chair. Chair See Infant's chair. Chair See Steve cleaner. Tube cleaner. Cleaner. See Sieve cleaner. Tube cleaner. Cleaner. See Sieve cleaner. Tube cleaner. Cleaning and painting or treating surfaces submerged in water. D. Mason Clutch, fluid, P. Cunningham. Clutch, fluid, P. Cunningham. Clutch, fluid, P. Cunningham. Clutch, fluid, P. Cunningham. Coffee, ripening, T. R. Timby. Coffee, ripening, T. R. Timby. Coffin handle, M. G. Wheeler Collar and necktie fastener, H. B. Barnes. Commutator truing device, P. B. Bosworth. Convering and elevator apparatus, electric, Fischer & Klepetko Cooking appliance, E. Jurgens. Cooper, gold, or silver, hardening and tempering, Conner & Bagby. Corn sbredder, F. Hagen (rejssue).	660,958 660,658 660,693 660,740 660,989 661,021 660,670 660,670 660,570 660,975 660,975 660,779 661,001
Car wheel, I Hogeland Cars, etc., supporting strap for, L T. Yoder. Carbon, manufacturing, H. Wartenberg. Carbon, manufacturing, H. Wartenberg. Carbonating apparatus, liquid, A. Wall Case, See Sterilizing case. Case. See Sterilizing case. Case and chair, combined, H. Flanders Chain sheet metal, F. B. Vandercook. Chain sheet metal, F. B. Vandercook. Chain tightener, H. Green. Chair, See Infant's chair. Chair, See Sieve cleaner. Tube cleaner. Cleaner, See Sieve cleaner. Tube cleaner. Cleaner, See Sieve cleaner. Tube cleaner. Cleaner, See Sieve cleaner. Clutch, fluid, P. Cunningham. Cock or faucet, self closing, F. H. Stahl. Coffee, ripening, T. R. Timby. Coffee, nandle, M. G. Wheeler Collar and necktie fastener, H. B. Sarnes. Commutator truing device, P. B. Bosworth Conveying and elevator apparatus, electric, Fischer & Klepetko. Cooking appliance, E. Jurgens. Cooper, gold, or silver, hardening and tempering, Conner & Bagby. Cotton gins, metallic brush for, J. H. Jenkins. Coupling, See Car coupling, Pipe coupling.	660,955 660,655 660,693 660,707 660,989 661,605 660
Car wheel, I Hogeland trap for, L T. Yoder Cars, etc., supporting strap for, L T. Yoder Carbon, manufacturing, H. Wartenberg Carbonating apparatus, liquid, A. Wall. Carpet stretcher, L. M. Lownes. Case. See Sterilizing case. Case and chair, combined, H. Flanders. Chain sheet metal, F. B. Vandercook. Chain sheet metal, F. B. Vandercook. Chain tightener, H. Green. Chair, E. E. Koken. Chair, E. E. Koken. Chair, E. E. Koken. Chair, E. E. Koken. Chair, E. Case and Chair. Chair, Case and Chair. Chair, Case and Chair, Case and Chair. Cock of faucet, self-closing, F. H. Stahl. Coffee, preserving roasted, S. Feitler. Coffee, preserving roasted, S. Feitler. Confee, preserving roasted, S. Feitler. Confee, Chipening, F. R. Timby. Coffin handle, M. G. Wheeler. Concontrolled attachment, F. P. Cox. Collar and necktie fastener, H. B. Barnes. Commutator truing device, P. B. Bosworth. Compersor, single cylinder compound. T. Grant Conneying and elevator apparatus, electric, Fischer & Kiepenko. Cooking appliance, E. Jurgens. Cooking appliance, E. Jurgens. Couping, See Car couping. Pipe coupling. Crusher, See Cold crusher. Chiltystor, A. Taplin.	660,955 660,655 660,693 660,707 660,989 661,605 660,605 660,605 660,975
Compressor, single cylinder compound, T. Grant Confectionery depositing machine, G. Carkon Conveying and elevator apparatus, electric, Fischer & Klepetko Cooking appliance, E. Jurgens Copper, gold, or silver, hardening and temper- ing, Conner & Bagby Corn sbredder, F. Hagen (rejssue) Cotton gins, metallic brush for, J. H. Jenkins Coupling. See Carcoupling. Pipe coupling. Crusher. See Clod crusher. Cultivator, A. Taplin Cultivator, listed corn, E. F. Cheney Current generator, single phase alternating, B.	660,793 661,008 660,724 660,991 660,983 11,866 660,900 660,669 660,669
Compressor, single cylinder compound, T. Grant Confectionery depositing machine, G. Carkon Conveying and elevator apparatus, electric, Fischer & Klepetko Cooking appliance, E. Jurgens Copper, gold, or silver, hardening and temper- ing, Conner & Bagby Corn sbredder, F. Hagen (rejssue) Cotton gins, metallic brush for, J. H. Jenkins Coupling. See Carcoupling. Pipe coupling. Crusher. See Clod crusher. Cultivator, A. Taplin Cultivator, listed corn, E. F. Cheney Current generator, single phase alternating, B.	660,793 661,008 660,724 660,991 660,983 11,866 660,990 660,669 660,698
Compressor, single cylinder compound, T. Grant Confectionery depositing machine, G. Carlson Conveying and elevator apparatus, electric, Fischer & Klepetko. Cooking appliance, E. Jurgens. Copper, gold, or silver, hardening and tempering, Conner & Bagby	660,793 661,006 660,724 660,983 11,866 660,960 660,669 660,698
Compressor, single cylinder compound, T. Grant Confectionery depositing machine, G. Carkson Conveying and elevator apparatus, electric, Fischer & Klepetko Cooking appliance, E. Jurgens Copper, gold, or silver, hardening and temper- ing, Conner & Bagby Corn sbredder, F. Hagen (reissue) Cotton gins, metallic brush for, J. H. Jenkins Coupling. See Carcoupling. Pipe coupling. Crusher. See Clod crusher. Cultivator, Isted corn, E. F. Cheney Current generator, single phase alternating, B. G. Lamme Cutter. See Band cutter. Pipe cutter. Soap cutter.	660,793 661,006 660,724 660,983 11,866 660,990 660,669 660,698
Compressor, single cylinder compound, T. Grant Confectionery depositing machine, G. Carkson Conveying and elevator apparatus, electric, Fischer & Klepetko Cooking appliance, E. Jurgens Copper, gold, or silver, hardening and temper- ing, Conner & Bagby Corn sbredder, F. Hagen (reissue) Cotton gins, metallic brush for, J. H. Jenkins Coupling. See Carcoupling. Pipe coupling. Crusher. See Clod crusher. Cultivator, Isted corn, E. F. Cheney Current generator, single phase alternating, B. G. Lamme Cutter. See Band cutter. Pipe cutter. Soap cutter.	660,793 661,006 660,724 660,983 11,866 660,990 660,669 660,698
Compressor, single cylinder compound, T. Grant Confectionery depositing machine, G. Carkson Conveying and elevator apparatus, electric, Fischer & Klepetko Cooking appliance, E. Jurgens Copper, gold, or silver, hardening and temper- ing, Conner & Bagby Corn sbredder, F. Hagen (reissue) Cotton gins, metallic brush for, J. H. Jenkins Coupling. See Carcoupling. Pipe coupling. Crusher. See Clod crusher. Cultivator, Isted corn, E. F. Cheney Current generator, single phase alternating, B. G. Lamme Cutter. See Band cutter. Pipe cutter. Soap cutter.	660,793 661,006 660,724 660,983 11,866 660,990 660,669 660,698
Compressor, single cylinder compound, T. Grant Confectionery depositing machine, G. Carkson Conveying and elevator apparatus, electric, Fischer & Klepetko Cooking appliance, E. Jurgens Copper, gold, or silver, hardening and temper- ing, Conner & Bagby Corn sbredder, F. Hagen (reissue) Cotton gins, metallic brush for, J. H. Jenkins Coupling. See Carcoupling. Pipe coupling. Crusher. See Clod crusher. Cultivator, Isted corn, E. F. Cheney Current generator, single phase alternating, B. G. Lamme Cutter. See Band cutter. Pipe cutter. Soap cutter.	660,793 661,006 660,724 660,983 11,866 660,990 660,669 660,698
Compressor, single cylinder compound, T. Grant Confectionery depositing machine, G. Carkson. Conveying and elevator apparatus, electric, Fischer & Klepetko. Cooking appliance, E. Jurgens. Copper, gold, or silver, hardening and temper ing, Conner & Bagby. Cotton gins, metallic brush for, J. H. Jenkins. Coupling. See Carcoupling. Pipe coupling. Crusher. See Clod crusher. Cultivator, Isted corn, E. F. Cheney. Current generator, single phase alternating, B. G. Lamme. Cutter. See Band cutter. Pipe cutter. Soap cutter. Damper and spark arrester, combined, F. T. Bewling. Decorating, mechanical device for art, G. Hall. Delivery mechanism, S. Wheeler. Digger. See Post hole digger. Potato digger. Dish washer, F. S. Hogg. Draw heads, automatic uncoupling device for. J. Draw heads, automatic uncoupling device for. J.	660,793 661,995 660,991 660,983 11,860 660,900 660,690 660,907 660,907 660,907 660,907 660,907 660,907
Compressor, single cylinder compound, T. Grant Confectionery depositing machine, G. Carkson. Conveying and elevator apparatus, electric, Fischer & Klepetko. Cooking appliance, E. Jurgens. Copper, gold, or silver, hardening and temper ing, Conner & Bagby. Cotton gins, metallic brush for, J. H. Jenkins. Coupling. See Carcoupling. Pipe coupling. Crusher. See Clod crusher. Cultivator, Isted corn, E. F. Cheney. Current generator, single phase alternating, B. G. Lamme. Cutter. See Band cutter. Pipe cutter. Soap cutter. Damper and spark arrester, combined, F. T. Bewling. Decorating, mechanical device for art, G. Hall. Delivery mechanism, S. Wheeler. Digger. See Post hole digger. Potato digger. Dish washer, F. S. Hogg. Draw heads, automatic uncoupling device for. J. Draw heads, automatic uncoupling device for. J.	660,793 661,995 660,991 660,983 11,860 660,900 660,690 660,907 660,907 660,907 660,907 660,907 660,907
Compressor, single cylinder compound, T. Grant Confectionery depositing machine, G. Carkson. Conveying and elevator apparatus, electric, Fischer & Klepetko. Cooking appliance, E. Jurgens. Copper, gold, or silver, hardening and temper ing, Conner & Bagby. Cotton gins, metallic brush for, J. H. Jenkins. Coupling. See Carcoupling. Pipe coupling. Crusher. See Clod crusher. Cultivator, Isted corn, E. F. Cheney. Current generator, single phase alternating, B. G. Lamme. Cutter. See Band cutter. Pipe cutter. Soap cutter. Bewling. Bewling. Decorating, mechanical device for art, G. Hall. Delivery mechanism, S. Wheeler. Digger. See Post hole digger. Potato digger. Dish washer, F. S. Hogg. Draw heads, automatic uncoupling device for. J. Draw heads, automatic uncoupling device for. J. Draw heads, automatic uncoupling device for. J.	660,793 661,995 660,991 660,983 11,860 660,900 660,690 660,907 660,907 660,907 660,907 660,907 660,907
Compressor, single cylinder compound, T. Grant Confectionery depositing machine, G. Carkson. Conveying and elevator apparatus, electric, Fischer & Klepetko. Cooking appliance, E. Jurgens. Copper, gold, or silver, hardening and tempering, Conner & Bagby. Cotton gins, metallic brush for, J. H. Jenkins. Coupling. See Carcoupling. Pipe coupling. Crusher. See Clod crusher. Cultivator, Isted corn, E. F. Cheney. Cutrent generator, single phase alternating, B. G. Lamme. Cutter. See Band cutter. Pipe cutter. Soap cutter. Bewling. Bewling. Bewling. Bewling. Bewling. Bewling. Bewling. Bewling. Bewling. Bental remedies, preparing. H. Bauermeister. Digger. See Post hole digger. Potato digger. Dish washer, F. S. Hogg. Draught arm, double stream. J. Armerod. Draw heads, automatic uncoupling device for, J. T. Lee. Driving mechanism. P. Cunning ham. Drumbhell and Indian club. combined. D. J. Ken.	660,793 661,983 660,724 660,991 660,983 11,866 660,900 660,669 660,698 660,698 660,678 660,714 660,714 660,735 660,735 660,735 660,735 660,735
Compressor, single cylinder compound, T. Grant Confectionery depositing machine, G. Carkson. Conveying and elevator apparatus, electric, Fischer & Klepetko. Cooking appliance, E. Jurgens. Copper, gold, or silver, hardening and tempering, Conner & Bagby. Cotton gins, metallic brush for, J. H. Jenkins. Coupling. See Carcoupling. Pipe coupling. Crusher. See Clod crusher. Cultivator, Isted corn, E. F. Cheney. Cutrent generator, single phase alternating, B. G. Lamme. Cutter. See Band cutter. Pipe cutter. Soap cutter. Bewling. Bewling. Bewling. Bewling. Bewling. Bewling. Bewling. Bewling. Bewling. Bental remedies, preparing. H. Bauermeister. Digger. See Post hole digger. Potato digger. Dish washer, F. S. Hogg. Draught arm, double stream. J. Armerod. Draw heads, automatic uncoupling device for, J. T. Lee. Driving mechanism. P. Cunning ham. Drumbhell and Indian club. combined. D. J. Ken.	660,793 661,983 660,724 660,991 660,983 11,866 660,900 660,669 660,698 660,698 660,678 660,714 660,714 660,735 660,735 660,735 660,735 660,735
Compressor, single cylinder compound, T. Grant Confectionery depositing machine, G. Carkon. Conveying and elevator apparatus, electric, Fischer & Klepetko. Cooking appliance, E. Jurgens. Copper, gold, or silver, hardening and tempering. Conner & Bagby. Corn sbredder, F. Hasen (reissue). Cotton gins, metallic brush for, J. H. Jenkins. Coupling. See Car coupling. Pipe coupling. Crusher. See Clod crusher. Cultivator, A. Taplin. Cultivator, A. Taplin. Cutter. See Band cutter. Pipe cutter. Soap cutter. Denger and spark arrester, combined, F. T. Bowling. Decorating, mechanical device for art, G. Hall. Delivery mechanism, S. Wheeler. Dental remedies, preparing. H. Bauermeister. Digger. See Post bole digger. Potato digger. Draught arm, double stream. J. Armerod. Draw heads, automatic uncoupling device for, J. T. Lee. Drilling machine, O. E. Oakes. Driving mechanism. P. Cunningham. Dumb bell and Indian club, combined, D. J. Kenned.	660,793 661,898 660,991 660,983 11,866 660,900 660,669 660,698 660,698 660,786 660,735 660,735 660,735 660,735 660,735 660,735 660,735 660,735
Compressor, single cylinder compound, T. Grant Confectionery depositing machine, G. Carkon. Conveying and elevator apparatus, electric, Fischer & Klepetko. Cooking appliance, E. Jurgens. Copper, gold, or silver, hardening and tempering. Conner & Bagby. Corn sbredder, F. Hagen (rejssue). Cotton gins, metallic brush for, J. H. Jenkins. Coupling. See Car coupling. Pipe coupling. Crusher. See Clod crusher. Cultivator, A. Taplin. Cultivator, A. Taplin. Cultivator, Iisted corn, E. F. Cheney. Current generator, single phase alternating, B. G. Lamme. Cutter. See Band cutter. Pipe cutter. Soap cutter. Damper and spark arrester, combined, F. T. Bowling. Decorating, mechanical device for art, G. Hall. Delivery mechanism, S. Wheeler. Dental remedies, preparing. H. Bauermeister. Digger. See Post bole digger. Potato digger. Draught arm, double stream. J. Armerod. Draw heads, automatic uncoupling device for, J. T. Lee. Drilling machine, O. E. Oakes. Driving mechanism. P. Cunning ham. Dumb bell and Indian club, combined, D. J. Kennedy. Dye, blue sulfur, H. Gussmann. Electric accumulator and secondary battery, H. Electric conduits.	660,793 661,985 660,991 660,983 11,866 660,900 660,669 660,698 660,698 660,698 660,786 660,735 660,735 660,735 660,735 660,735 660,735 660,735 660,735
Compressor, single cylinder compound, T. Grant Confectionery depositing machine, G. Carkon Conveying and elevator apparatus, electric, Fischer & Klepetko Cooking appliance, E. Jurgens. Copper, gold, or silver, hardening and tempering, Conner & Bagby Conton gins, metallic brush for, J. H. Jenkins Coupling. See Carcoupling. Pipe coupling. Crusher. See Clod crusher. Cultivator, A. Taplin Cultivator, A. Taplin Cultivator, Isted corn, E. F. Cheney Current generator, single phase alternating, B. G. Lamme. Cutter. See Band cutter. Pipe cutter. Soap cutter. See Band cutter. Pipe cutter. Soap cutter. Bowling Bechanism, S. Wheeler Decorating mechanism, S. Wheeler Dental remedies, preparing. H. Bauermeister. Disp washer, F. S. Hogg Larmed. Draw heads, automatic uncoupling device for, J. T. Lee Drilling machine, O. E. Oakes. Driving mechanism. P. Cunningham Dumb bell and Indian club, combined, D. J. Kennedy Disb washer, F. S. Hogg Draw heads, automatic uncoupling device for, J. T. Lee Driving mechanism. P. Cunningham Dumb bell and Indian club, combined, D. J. Kennedy Dise washer, H. Gussmann Electric accumulator and secondary battery, H. Weymerscb Electric conduits, appliance for making metallic connections between, Watkins & Lenk	660,793 660,991 660,991 660,991 660,900 660,689 660,688 660,907 660,582 660,932 660,733 660,733 660,735 660,908 660,909
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Compressor, single cylinder compound, T. Grant Confectionery depositing machine, G. Carkon Conveying and elevator apparatus, electric, Fischer & Klepetko Cooking appliance, E. Jurgens. Copper, gold, or silver, hardening and tempering, Conner & Bagby Cooking appliance, E. Jurgens. Copper, gold, or silver, hardening and tempering, Conner & Bagby Cotton gins, metallic brush for, J. H. Jenkins. Coupling. See Carcoupling. Pipe coupling. Crusher. See Clod crusher. Cultivator, A. Taplin Cultivator, Isted corn, E. F. Cheney Current generator, single phase alternating, B. G. Lamme. Cutter. See Band cutter. Pipe cutter. Soap cutter. Bewling Bamber and spark arrester, combined, F. T. Bewling Becorating, mechanical device for art, G. Hall Delivery mechanism, S. Wheeler Dental remedies, preparing. H. Bauermeister Disp washer, F. S. Hogg Draw heads, automatic uncoupling device for, J. T. Lee Driving machine, O. E. Oakes. Driving mechanism. P. Cunningham Dumb bell and Indian club, combined, D. J. Kennedy Draw heads, automatic uncoupling device for, J. T. Lee Driving mechanism. P. Cunningham Dumb bell and Indian club, combined, D. J. Kennedy Draw heads, automatic uncoupling device for, J. T. Lee Driving mechanism. P. Cunningham Dumb bell and Indian club, combined, D. J. Kennedy Draw heads, automatic uncoupling device for, J. T. Lee Driving mechanism. P. Cunningham Electric conduits, appliance for making metallic connections between, Watkins & Lenk Electric contact device, screw, Chevallier & Cadet Electric distribution system. E. M. Hewlett. Electric indicator, C. L. Clarke Electric motor, T. S. Watson Electric motor, C. L. Clarke Electric motor, T. S. Watson Electric motor, C. L. Clarke Electric snaps witch cover, M. Guett Electric snaps witch c	660,793 661,985 661,995 660,991 660,991 660,990 660,698 660,990 660,698 660,997 660,735 660,735 660,735 660,735 660,735 660,736 660,73
Compressor, single cylinder compound, T. Grant Confectionery depositing machine, G. Carkon Conveying and elevator apparatus, electric, Fischer & Klepetko Cooking appliance, E. Jurgens Copper, gold, or silver, hardening and temper- ing, Conner & Bagby Corn sbredder, F. Hagen (reissue) Corn sbredder, F. Hagen (reissue) Cotton gins, metallic brush for, J. H. Jenkins Coupling. See Carcoupling. Pipe coupling. Crusher. See Clod crusher. Cultivator, Insted corn, E. F. Cheney Current generator, single phase alternating, B. G. Lamme. Cutter. See Band cutter. Pipe cutter. Soap cutter. See Band cutter. Pipe cutter. Soap cutter. Damper and spark arrester, combined, F. T. Bowling. Decorating, mechanical device for art, G. Hall. Delivery mechanism, S. Wheeler. Dieger. See Post hole digger. Potato digger. Disb washer, F. S. Hogg. Draught arm, double stream, J. Armerod. Draw heads, automatic uncoupling device for, J. T. Lee. Driving mechanism. P. Cunningham. Dumb bell and Indian club, combined, D. J. Ken- nedy. Dre, blue sulfur, H. Gussmann. Electric conduits, appliance for making metallic connections between, Watkins & Lenk. Electric distribution 8, stem E. M. Hewlett. Electric distribution 8, stem E. M. Hewlett. Electric motor, R. G. Lamme. Electric motor, T. S. Watson Electric motor, T. S. Watson Electric motor, T. S. Watson Electric indicator, C. L. Clarke. Electric motor, T. S. Watson Electric doudctors, varying active lengths of, C. F. Scott. Electrical switch, tovary snap, M. Guett. Electrical conductors, varying active lengths of, C. F. Scott. Electrical witch, rotary snap, M. Guett. Electric remotor, P. Elbig. Electric remotor, P.	660,793 660,983 11,866 660,983 11,866 660,983 11,866 660,900 660,688 660,900 660,688 660,907 660,738
Compressor, single cylinder compound, T. Grant Confectionery depositing machine, G. Carlson. Conveying and elevator apparatus, electric, Fischer & Klepetko	660,793 660,991 660,991 660,990 660,688 660,698 660,698 660,698 660,698 660,791 660,990 660,791 660,791 660,793 660,793 660,793 660,793 660,793 660,793 660,793 660,793 660,793 660,793 660,793 660,993 660,793 660,993 660,793 660,993 660,793 660,993 660,793 660,993 660,793 660,993 660,993 660,993 660,993 660,993 660,993 660,993
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Engines, sparking plug for explosive, E. T. Birdsall

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