### RECENTLY PATENTED INVENTIONS. Bicycle Appliances.

BICYCLE - HOLDER .- CHARLES B. DURFEE and FRANK M. WILLIAMS, Belleville, N. Y. The purpose of this invention is to provide a bicycle-holder which shall be simple, inexpensive, and compact. According to the invention, a vertical support is recessed to receive the tread of the wheels. To this support an arm is pivoted at one end to fold down thereon when not in use A recessed blockpivotally mounted, is adjustably secured to the arm, whereby, when the latter is swung outwardly from the support, the recessed block can be engaged with the bicycle frame to hold it against the support and above

BICYCLE-STAND.-John F. Bengert, Brooklyn, N Y. To provide a stand which can be permanently carried on the bicycle frame without interfering with the action of the wheels, which can be used either on a road or on the floor of a building and which enables the bicycle to be raised from the ground if necessary, this inventor has devised a support consisting of a bracket attachment for the bicycle frame, a sleeve or socket held to rock upon the bracket attachment and a standard having end movement in the sleeve or socket and provided with a foot. By the arrangement described, the standard may be ced at an inclination to hold the frame in an upright position when the rider has dismounted. or the standard may be placed in a vertical position to support the frame so that its wheels will clear the ground or floor.

#### Electrical Inventions.

ELECTRIC-RAILWAY. - WILLIAM W. DOTY, New York city, James A. McKnight, Mount Vernon, N Y. and Charles Granten, New York city. The object of this invention is to propel cars and trains while maintaining a steady current for running the cars properly without danger of deadly overhead or rail currents. In addition to a feed wire, there are also employed a sectional working conductor and a series of circuitcontrollers, one for each section of the working conductor. Each of these circuit-controllers comprises a switch made with a conducting and a non-conducting section, an electric actuating-device electrically connected to the working conductor section belonging to that controller and two circuit-closers controlled by the switch, so arranged that only one of them can engage the non-conducting portion of the switch at a time. One circuit-closer operates when the electric actuating-device is energized to connect the feed-wire with the workingconductor section belonging to the same controller. The other circuit-closer operates when the electric actuatingdevice is de-energized to connect the feed-wire with the working conductor-section belonging to the next

ELECTRIC CUT-OUT.-HARRY A. LEWIS, Norris town, Pa. This invention provides an electric cut-out designed for use in a line-wire to relieve a building from danger of a strong or excessively charged current produced by lightning or other causes. the apparatus breaking the current automatically and diverting the current from the building. The cut-out is provided with a circuit-breaker interposed in the line wire, and with a thermostat comprising a tube fixed at one end, a wire coil in the tube, a rod held to press the coil against the tube to heat the latter, and intermediate mechanism for connecting the tube with the circuit-breaker. A strong or excessively charged current heats the tube and causes it to act on the current-breaking devices.

FUSE-HOLDER, CIRCUIT-BREAKER, AND LIGHTNING-ARRESTER.-HARRY A. LEWIS, NOTristown, Pa. To provide an improved fuse-holder, circuit breaker, and lightning-arrester arranged to protect instruments and buildings from the effects of high-voltage currents, produced by lightning, this inventor has devised means whereby the current is either passed into the earth or let out by a return wire. The device comprises a stationary contact adapted for connection with an electric circuit, a movable arm likwise adapted for connection with the circuit, a stationary insulating-block normally engaged by the movable contact and separating it from the stationary contact, and means adapted to be released by a high-tension discharge for holding the movable contact normally stationary. This contact when released, is arranged to move first into engagement with the stationary contact, and then away therefrom.

INSULATOR .- CHARLES L. WINGARD, Walla Walla Wash. This insulator is constructed with two duplicate sections matching to form a tubular body. Each section has its edges provided with interlocking shoulders, and has a head provided with a notch leading to the bore thereof, through which notch the conductor may be passed. 'The insulator may be applied after the wiring is done, or it may be first put in place and the wire then run through it, as may be most convenient. When once in place, the insulator cannot be removed accidentally.

# Mechanical Devices.

STENCII FELD, New York city. The purpose of this invention is to provide a machine for puncturing paper accurately, so as to form stencils such as those used for marking the outlines of monograms. The machine is arranged to permit the operator to form any desired number of stencils at the same time, and comprises a depending bearing mounted to turn a counterbalanced arm pivoted in the bearing, and a casing provided with a rod projecting from its upper face and with a tube projecting from its lower face. In the casing a cone-pulley is mounted, on the shaft of which an eccentric is secured, to which a needle-carrying rod is connected projecting out through the tube. On the counterbalanced arm are pulleys and below it, a driven pulley is mounted in a support. Around the pulleys an endless belt passes. Tightening-pulleys are carried by the support of the driven pulley.

ELEVATOR FOR GRANULAR MATERIAL. APOSTOLOS MARANGOS, Marseilles, France, To pro vide an elevator of the type used on floats or pontoons for loading or unloading ships, this inventor has devised a construction which is not affected by the pitching of the float on which it is placed. To a mast, a boom is mozably connected. A hanger is suspended from the boom to swing about a horizontal axis. In the hanger of this paper.

below this axis and extending crosswise thereof, a horizontal shaft is journaled. On the horizontal shaft an elevator is freely suspended, comprising a vertical screw shaft and a casing surrounding the shaft engaging gearwheels located on the horizontal shaft and vertical shaft. A pulley is mounted on the horizontal shaft and is connected to rotate with the gear-wheel thereon. Pullevs are also mounted to rotate about the suspension-axis of the hanger. A driving connection passes over the pul-

ROTARY ENGINE .- SAMUEL T. WILSON, Charles ton, W. Va. This rotary engine comprises a cylindercasing, two separable rings attached to the heads and forming an annular cylinder open at one end. an abutment projecting from the casing-head and a cylindrical piston rotating concentrically with the cylinder and having a flange at its end of greater diameter than the body and projecting longitudinally into the annular cylinder. This flange has a slot extending across its face. A piston-head fits the slot and cylinder Extending longitudinally to the piston and through the flange is a stem attached to the head. A cam-ring sur-rounds the piston, and lugs attached to the stem engage the cam-ring to reciprocate the piston head when it passes the abutment.

#### Railway Appliances.

PNEU MATIC RAILWAY-SIGNAL. - LEWIS S. Brown, Columbus, O. This invention is an improvement in pneumatic railway-signaling apparatus, comprising an air-pumping apparatus operated by the passage of the car-wheels and a distant air-motor operated by the air thus pumped and sounding a bell. From the air-compressing or pumping device actuated by the passing of the train, leads an air-supply pipe. A reaction wheel composed of hollow arms, having tangential openings at their outer ends and having a hollow axis connected with the air-supply pipe, is also provided. With this wheel a disk revolves, having side projecting lugs or arms. A bell surrounds the disk, and a spring-controlled striker is partly interposed in the paths of the lugs mentioned and is engaged thereby to ound the bell,

AUTOMATIC APPARATUS FOR PREVENTING COLLISIONS. — JOHANNES VERMEHREN, Hellerup, Denmark. This apparatus is designed to prevent collisions between trains, and consists of mechanism between the rails which is set in action by the train when drawn up at a station or stopping place. This mechanism actuates an appliance arranged at a distance from the stopping place in such a manner that the appliance works a brake apparatus on any train which may subse quently arrive at that point and thus stops it, independently of the engine driver and irrespective of any signal being at "danger" or at "safety." The appliance in question is placed at such a height from the track that t can engage with an arm extending from the side of the locomotive arriving at that point and thereby actuate the brakes. The appliance is brought into operative position by means of the mechanism at the stopping place, which is actuated by an entering train.

## Miscellaneous Inventions.

ADJUSTABLE SPRING-BEARING.-NICOLAS DU-VAL-PIHET, Paris, France. This invention provides a suspension device for the frames of light vehicles, such as bicycles, and has double springs or cushions between each member of the fork and the wheel-axle, one spring of each set being a compression spring and the other an expansion spring. Both springs are located in a single casing above the axle.

PAPER PLANT-BOX. - JOSEPH T. CRAW, Jersey City, N. J. The purpose of this invention is to provide a paper plant box in which seedlings may be grown and young plants reared. The paper-box is made from a blank comprising a series of panels of the shape of a parallelogram, one of the end panels being provided with a side flap. All of the panels are provided with rectangular flaps at their lower edges, each of the bottom flaps being provided with a diagonal slot to receive a flap when forming the box. Boxes of this square form have the advantage of economizing space, since they may be closely packed together on a growing table or in a cold frame, each box fitting directly against its neighbor.

CORNICE-LADDER.-James W. Anderson, Philadelphia, Pa. To provide a ladder especially adapted to be hung from a cornice, which ladder shall be durable. light, and easily applied, this inventor has devised various new improvements. To the lower portion and at one side of the ladder, a horizontal platform is secured. Two fender-rails are located respectively at each side of the platform and are adjustable horizontally. The fender-rails extend laterally beyond the side of the ladder opposite the side having the platform. A guardrail is secured to and extends transversely across the fender-rails, and has its ends projecting beyond the fender-rails and provided with transverse extensions.

BUILDING-TRUSS. - WILLIAM A. BORING, New York city. The purpose of this invention is to provide receive any other form of truss of equal bearing capacity in propor tion to its weight, and which possesses great lateral strength to sustain a wind load bearing on a structure supported by the truss. The truss comprises two base-chords, an apex-chord, struts extended from the base-chords to the apex-chord and a center-beam extended longitudinally of the truss, at its base. From about the center of the struts to this beam, knees extend From about the center of each strut to the base-chord, braces extend. The braces and knees serve to strengther the struts in three directions.

# Designs.

JAR. - JOHN SCHIES, Anderson, Ind. The leading feature of this design is the sectional configuration of the mouth of the jar, with an external outward flare in an upward direction and with an inner flared portion uniting with the rounded inner surface. The jar-body is formed with plane panels and slopes thence into union with the ornamented cylindrical neck.

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(7468) S. R. M. asks: Which of two glass balls, No. 1 and 2, exactly the same size, weight and material and conditions, would be the most likely to break were they brought together at different speeds, No. 1 at one-half the speed of No. 2, all conditions except peed to be the same? A. The two glass balls will be subject to an equal breaking force at moment of collision. This is in accordance with Newton's third law of motion. Action and reaction are equal. Or, as it is stated more fully in Kent's "Pocket Book," "If a force act to change the state of a body with respect to rest or motion, the body will offer a resistance equal and airectly opposed to the force." The answer then is, Both will oreak if the force of the blow is sufficient to break either. Yet it is a common belief among sailors that in a collision the vessel which is going faster is injured less than the one that is moving slower. This notion does not seem to be supported by the result of the recent collision of the Bourgogne" and the "Cromartyshire," The ball No. 2, moving twice as fast as No. 1, will have four times the energy of No. 1, and could strike four times as heavy a blow upon any barrier capable of receiving it. But ball No. 1 cannot receive the full energy of No. 2, any more than an egg can receive and use up the full energy of the blow of a sledge. After the sledge has demolished the egg, it will deal a heavy blow to the surface upon which the egg lies; so ball No. 2 can overcome the energy of No. 1, and its fragments will move on in the same direction as before the collision with three-fourths of its energy remaining in them, the other fourth having been used in stopping No. 1. No. 2 can only spend against No. 1 as much energy as No. 1 possesse and No. 1 can use against No. 2 the same amount of energy. Now if this will break one of the balls, it will break both of them, since, by the conditions of the problem, they are equally strong. This was well understood as long ago as the time of Socrates, who is reported by Plato, as asking: "Is not the striker hit with the same blow as he who is struck?'

(7469) J. W. E. savs: How far can one of our large battleships be seen with aid of glass? In otherwords, how many miles can a battleship be seen by looking through glasses? A. The distance at sea at which a vessel may be seen with a glass depends upon the height of the vessel's upper works, as well as the height of the observer above the sea. When the heights of both vessels are from 25 to 30 feet, their upper works may be seen at 13 miles. From a masthead 100 feet above the sea the upper works of vessels may be seen 20 miles in clear weather. The smoke of steamers shows their position from 25 to 30 miles distance.

# INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

JULY 19, 1898,

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

| Alarm. See Railway signal alarm. | Alkali metals from their chlorids, apparatus for producing, P. Danckwaudt. | 607,506 Animal trap, J. Knoop. | 607,631 Arm rest, L. Barr. | 607,675

to surfaces of, T. J. Tresidder	_
	á
Armor plates, etc., apparatus for applying heat to surfaces of, T. J. Tresidder	1
Bath room and water heater, portable, W. H. Bath gracelle, C. B. Hattleid. Bearing, antifriction, J. C. Reber. Bearing, antifriction, J. C. Reber. Bearing, vertical shaft, O. Anderson. Bearing, vertical shaft, O. Anderson. Bearing, vertical shaft, O. Anderson. Biryle, A. F. Hood. Biryle, L. F. Parks. Biryle ethain, L. C. Krummel. Biryle equalizing appliance. A. I. Thayer. Biryle equalizing appliance. A. I. Thayer. Biryle equalizing appliance. A. I. Thayer. Biryle package carrier. J. M. Erwin. Biryle package carrier. J. M. Erwin. Biryle parel carrier. O. W. Schaum. Biryle support. A. I. Gallaway. Biryle support. Welch & Burkhart. Biryle support. Welch & Burkhart. Board. See Bulletin board. Board clamp. W. Jordan. Boudet holder, P. Donnelly. Box. See Match box. Box filling and transferring apparatus. F. H. Richards.	
Thiell	1
Bearing, antifriction, J. C. Reber	Ď
Bearing, vertical shaft, O. Anderson	5
Belting, F. W. Oliver. 607,45	4
Bicycle, A. F. Hood	S
Bicycle attachment, G. H. Pacaud. 607,450	5
Bicycle, chainless, W. T. Shryock. 607,71	ขึ้
Bicycle equalizing appliance, A. I. Thayer	7
Bicycle gear, D. W. Guiles	5
Bicycle hub and bearing, J. Baker	2
Bicycle parcel carrier, O. W. Schaum	7 2
Bicycle saddle, J. A. Hunt	5
Bicycle support, Welch & Burkhart	9
Board. See Bulletin board.	7
Boiler furnace, steam, E. J. Elms	é
B. Watson	6
Box. See Match box.	6
Box filling and transferring apparatus, F. H. Richards	1
Box filling and transferring machine, F. H. Richards	0
ards. 607,47 Box filling machine, F. H. Richards. 607,469, 607,47 Brace. See Post brace.	2
Brake beam, L. C. Burgess	8
Brake rod connecting end, J. H. Baker	6
Brick machine, J. Sharpe	8
Box filling machine, F. H. Richards	8
ridge	30
Buggy top side light, Quinsler & McNear	5
Broom nancie poissing machine, H. Brecken- ridge. 607,73 Brush machine, J. W. Hocker 607,73 Buggy top side light, Quinsler & McNear 607,79 Bulletin board, Borden & Niederstadt 607,41 Buoy, electric, E. W. G. C. Hoffmann 607,74 Burner. See Gas burner. Oil burner. Button, F. G. Neubert. 607,41 Cabinet, spice, C. M. Stevenson 607,71 Cam grooves, machine for forming irregular, J. Reece. 607,62	5
Burner. See Gas burner. Oil burner. Button, F. G. Neubert. 607.45	52
Cam grooves, machine for forming irregular. J.	6
Reece. 607, 52 Camera, kinetographic, F. H. Morse. 607, 52 Camera, roll holding, W. V. Esmond. 607, 42	8
Camera, roll holding. W. V. Esmond	28
Car brake lever, railway, J. H. Baker	95 31
Car coupling, W. K. Noland. 607, 6	33
Can. See Milk can. Car brake lever, railway, J. H. Baker. Car coupling, P. C. Brown. Car coupling, W. K. Noland. Car coupling, W. R. W. Rudy. Car door bracket, E. A. Hill. GG, 55 Car fender, Lawton & Macaffree. GG, 55 Car fender, Lewis & Courtney. GG, 64 Car ond Stray, street, W. R. Sands. GG, 56 Car, ore, G. E. Truax. GG, 75 Car signal, W. O. Abbott. Car signal, W. O. Abbott. Carsignal, W. O. Abbott. Carsign	11
Car fender, Lawton & Macaffree. 607.51	14
Car hand strap, street, W. R. Sands	12
Car, ore, G. E. Truax	61
Carriage wrench, E. E. Hilliker	<b>1</b> 65
Caster, ball, B. Wesselmann	20 36
Chair and bed, combined, J. A. Bergman	18 11
Clamp. See Board clamp. Cleaner. See Dish cleaner.	
Cloth cutting machine, C. H. Crowell. 607,58 Clothes rack, W. S. Downer 607,68	86 23
Clutch, W. J. Thomas. 607,55	
Clutch, friction, E. Turney	53
Coffee pot, J. O. Ingle	12
Comb. See Currycomb.	
Controller, T. Von Zweigbergk	72
Cooking and can filling machine, corn. F. W.	76
Smith	
A Dixon 607 62	
A. Dixon. 607,60 Corset waist, G. A. Schneebeli. 607,60	56 39
Corset waist, G. A. Schneebeli	U7
Cot or bedstead, folding, E. H. Rimmelin	U7
Corset waist, G. A. Schneebeli	U7
Corset waist, G. A. Schneebeli. (17.6) Cot or bedstead, folding, E. H. Rimmelin. (17.6) Coupling. See Car coupling. Pipe coupling. Thill coupling. (17.6) Crate or box, egg, F. H. Champlin. (17.6) Crusher and pulverizer, A. & L. E. Bandeen. (17.6) Crushing machine, T. L. & T. J. Sturtevant. (17.6) Cultivator, E. E. Whipple. (17.6)	U7
Corset waist, G. A. Schneebeli. (17.5) Cot or bedstead, folding, E. H. Rimmelin. (17.5) Coupling. See Car coupling. Pipe coupling. Thin coupling. Crate or box, egg, F. H. Champlin. (67.4) Crate, shipping, J. A. Reeder. (67.5) Crusher and pulverizer, A. & L. E. Bandeen. (67.4) Crushing machine, T. L. & T. J. Sturtevant. (67.4) Cultivator, E. E. Whipple. (67.5) Cup. See Oil cup. Cupols, T. P. Byram. (67.5)	U7
Corset waist, G. A. Schneebeli. (17.5) Cot or bedstead, folding, E. H. Rimmelin. (17.5) Coupling. See Car coupling. Pipe coupling. Thinl coupling. Crate or box, egg, F. H. Champlin. (67.4) Crate, shipping, J. A. Reeder. (67.5) Crusher and pulverizer, A. & L. E. Bandeen. (67.4) Crushing machine, T. L. & T. J. Sturtevant. (67.4) Cultivator, E. E. Whipple. (67.5) Cup. See Oil cup. Cupols, T. P. Byram. (67.5) Currycomb, J. Carden. (67.7) Currycomb, J. Carden. (67.7)	U7
Corset waist, G. A. Schneebeli. (17.6) Cot or bedstead, folding, E. H. Rimmelin. (17.6) Coupling. See Car coupling. Pipe coupling. Thill coupling. Crate or box, egg, F. H. Champlin. (607.4) Crate, shipping, J. A. Reeder. (617.4) Crusher and pulverizer, A. & L. E. Bandeen. (617.4) Crushing machine, T. L. & T. J. Sturtevant. (617.4) Cultivator, E. E. Whipple. (617.6) Cup. See Oil cup. Cupols, T. P. Byram. (607.5) Currycomb, J. Carden. (617.7) Curtain holder, Parish & Rudolph. (617.7) Cutter head, S. J. Shimer. (617.6) Cupamper, ventilating, R. L. Underwood. (617.6) Conserve ventilating, R. L. Underwood. (617.6)	U7
Crate, shipping, J. A. Reeder. 607.5. Crusher and pulverizer, A. & L. E. Bandeen. 607.4. Crushing machine, T. L. & T. J. Sturtevant. 607.4. Cultivator, E. E. Whipple. 607.6. Cup. See Oil cup. 607.6. Cup. See Oil cup. 607.6. Currycomb. J. Carden. 607.7. Curtain holder, Parish & Rudolph. 607.7. Cutter head, S. J. Shimer. 607.7. Damper, ventilating, R. L. Underwood. 607.6. Detergent composition and making same, J. W.	07 23 14 18 75 32 01 33 02 09 69
Crate, shipping, J. A. Reeder. 607.5. Crusher and pulverizer, A. & L. E. Bandeen. 607.4. Crushing machine, T. L. & T. J. Sturtevant. 607.4. Cultivator, E. E. Whipple. 607.6. Cup. See Oil cup. 607.6. Cup. See Oil cup. 607.6. Currycomb. J. Carden. 607.7. Curtain holder, Parish & Rudolph. 607.7. Cutter head, S. J. Shimer. 607.7. Damper, ventilating, R. L. Underwood. 607.6. Detergent composition and making same, J. W.	07 23 14 18 75 32 01 33 02 09 69
Crate, shipping, J. A. Reeder. 607.5. Crusher and pulverizer, A. & L. E. Bandeen. 607.4. Crushing machine, T. L. & T. J. Sturtevant. 607.4. Cultivator, E. E. Whipple. 607.6. Cup. See Oil cup. Cupols, T. P. Byram. 607.5. Currycomb, J. Carden. 607.7. Cutrain holder, Parish & Rudolph. 607.7. Cutter head, S. J. Shimer. 607.7. Cutter head, S. J. Shimer. 607.7. Cutter head, S. J. Shimer. 607.7. Cutter composition and making same, J. W. Sallade. 607.8. Dish cleaner, Leonard & Hescox. 607.8. Ditching machine, J. W. Humphreys. 607.8. Doorfastener, sliding, J. R. Washburn. 607.8. Doorfastener, sliding, J. R. Washburn. 607.8. Drawing roller shield or deflector 71 Wolsten.	07 23 14 18 75 32 01 33 02 09 69 63 15 88 95
Crate, shipping, J. A. Reeder. 607.5 Crusher and pulverizer, A. & L. E. Bandeen. 607.4 Crushing machine, T. L. & T. J. Sturtevant. 607.4 Cultivator, E. E. Whipple. 607.6 Cup. See Oil cup. 607.6 Cupola, T. P. Byram. 607.5 Currycomb, J. Carden. 607.7 Currycomb, J. Carden. 607.7 Cuttain holder, Parish & Rudolph. 607.7 Cutter head, S. J. Shimer. 607.7 Cutter head, S. J. Shimer. 607.7 Damper, ventilating, R. L. Underwood. 607.7 Damper, ventilating, R. L. Underwood. 607.7 Dish cleaner, Leonard & Hescox. 607.5 Ditching machine, J. W. Humphreys. 607.6 Door fastener, sliding, J. R. Washburn. 607.4 Drawing roller shield or deflector, T. Wolstenbolme.	07 23 14 18 75 32 01 33 02 09 69 63 15 88 95
Crate, shipping, J. A. Reeder. 607.5 Crusher and pulverizer, A. & L. E. Bandeen. 607.4 Crushing machine, T. L. & T. J. Sturtevant. 607.4 Cultivator, E. E. Whipple. 607.6 Cup. See Oil cup. 607.6 Cupola, T. P. Byram. 607.5 Currycomb, J. Carden. 607.7 Currycomb, J. Carden. 607.7 Cuttain holder, Parish & Rudolph. 607.7 Cutter head, S. J. Shimer. 607.7 Cutter head, S. J. Shimer. 607.7 Damper, ventilating, R. L. Underwood. 607.7 Damper, ventilating, R. L. Underwood. 607.7 Dish cleaner, Leonard & Hescox. 607.5 Ditching machine, J. W. Humphreys. 607.6 Door fastener, sliding, J. R. Washburn. 607.4 Drawing roller shield or deflector, T. Wolstenbolme.	23 14 175 2 01 33 2 09 63 15 88 5 24 79 06
Crate, shipping, J. A. Reeder. 607.5. Crusher and pulverizer, A. & L. E. Bandeen. 607.4. Crushing machine, T. L. & T. J. Sturtevant. 607.4. Cultivator, E. E. Whipple. 607.6. Cup. See Oil cup. 607.6. Cupola, T. P. Byram. 607.5. Currycomb, J. Carden. 607.7. Cutter head, S. J. Shimer. 607.7. Damper, ventilating, R. L. Underwood. 607.7. Dish cleaner, Leonard & Hescox. 607.5. Dit ching machine, J. W. Humphreys. 607.6. Dit ching machine, J. W. Humphreys. 607.6. Drum, machine, J. W. Humphreys. 607.6. Drum, heating, C. M. Richardson. 607.7. Drum, heating, C. M. Richardson. 607.7. Drumping receptacle, E. J. Little. 607.6. Ejector, sanit ary, L. O. Lawrasen. 607.7.	23 4 18 75 2 01 33 02 09 63 15 8 5 2 4 9 7 9 6 3 5 3
Crate, shipping, J. A. Reeder. 607.5. Crusher and pulverizer, A. & L. E. Bandeen. 607.4. Crushing machine, T. L. & T. J. Sturtevant. 607.4. Cultivator, E. E. Whipple. 607.6. Cup. See Oil cup. 607.6. Cupola, T. P. Byram. 607.5. Currycomb, J. Carden. 607.7. Cutter head, S. J. Shimer. 607.7. Damper, ventilating, R. L. Underwood. 607.7. Dish cleaner, Leonard & Hescox. 607.5. Dit ching machine, J. W. Humphreys. 607.6. Dit ching machine, J. W. Humphreys. 607.6. Drum, machine, J. W. Humphreys. 607.6. Drum, heating, C. M. Richardson. 607.7. Drum, heating, C. M. Richardson. 607.7. Drumping receptacle, E. J. Little. 607.6. Ejector, sanit ary, L. O. Lawrasen. 607.7.	23 4 18 75 2 01 33 02 09 63 15 8 5 2 4 9 7 9 6 3 5 3
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Crate, shipping, J. A. Reeder. Crushing machine, T. L. & T. J. Sturtevant.  (67.4) Crushing machine, T. L. & T. J. Sturtevant.  (67.5) Cupola, T. P. Byram. Cupola, T. P. Byram. Curtain holder, Parish & Rudolph. Gr. Cutter head, S. J. Shimer. Curtain holder, Parish & Rudolph. Cutter head, S. J. Shimer. Curtain holder, Parish & Rudolph. Gr. Cutter head, S. J. Shimer. Damper, ventilating, R. L. Underwood. Detergent composition and making same, J. W. Sallader. Leonard & Hescox. Ditching machine, J. W. Humphreys. Gr.	10 82148752 033804968 635865 24766465 174887785 69140465 224 63874864 67682 7336464548 24 5566464754754866 28228
Crate, shipping, J. A. Reeder. 607.5 Crushing machine, T. L. & T. J. Sturtevant. 607.4 Crushing machine, T. L. & T. J. Sturtevant. 607.4 Cup. See Oil cup. 607.6 Curtain holder, Parish & Rudolph. 607.7 Cutter head, S. J. Shimer. 607.7 Cutter head, S. J. Shimer. 607.7 Cutter head, S. J. Shimer. 607.7 Damper, ventilating, R. L. Underwood. 607.6 Detergent composition and making same, J. W. Sallade. 607.6 Dish cleaner, Leonard & Hescox. 607.6 Ditching machine, J. W. Humphreys. 607.6 Ditching machine, J. W. Humphreys. 607.6 Door fastener, sliding, J. R. Washburn. 607.6 Drawing roller shield or defiector, T. Wolstenholme. 607.6 Drawing roller shield or defiector, T. Wolstenholme. 607.6 Drum, heating, C. M. Richardson. 607.6 Electric circuit regulating s witch. Davis & Wright. 607.6 Electric circuit regulating s witch. 107.6 Electric conductor bond, S. W. Huff. 607.6 Electric machine, dynamo, A. G. Eigner. 607.6 Electric machine, dynamo, A. G. Eigner. 607.6 Electrical distribution system, B. G. Lamme. 607.6 Electrical resistance, H. S. Chase. 607.5 Enameling steel. F. G. Niedringhaus. 607.6 Engine. See Gas engine. Rotary engine. Steam engine. Winding and hauling engine. 607.6 Engine. See Gas engine. Rotary engine. Steam engine. Winding and hauling engine. 607.6 Engine. See Gas engine. Rotary engine. Steam engine. See Gas engine. Rotary engine. 607.6 Engine. See Gas engine. Rotary engine. 607.6 Engine. See Gas engine. Rotary engine. 607.6 Engine. See Gas engine. Rotar	10 82148752 033804968 635865 24766465 174887785 69140465 224 63874864 67682 7336464548 24 5566464754754866 28228