### RECENTLY PATENTED INVENTIONS. Engineering.

EXHAUST NOZZLE.-Lewis P. Garner, Ashland, Pa. This is a device specially adapted for locomotive engines, and is designed to govern the exhaust by increasing or diminishing the outlet, while it may also be made to produce back pressure on the piston in the cylinder when it is desired to brake the

MANUFACTURE OF WATER GAS-Charles E. Burdell, New York City. This invention is for an apparatus in which superheated steam and oil are injected into an incandescent mass of anthracite coal, decomposing the superheated steam and combining the oil vapor to form oil and water gas, the apparatus being designed to effect a saving in fuel, time and labor, and afford a gas having but a small portion of deleterious matter.

#### Railway Appliances.

GRIP FOR CARS.-Jacob M. Isenberg, Mines, Pa. Combined with a governor and a latch actuated thereby is a cradle pivoted at one end of the car and terminating in hooks or claws, the cradle being adapted for engagement by the latch, the device being designed for use with the cars of inclined roads, and acting automatically when the speed of the car is increased, as by the breaking of a cable, to clamp the ties of the track.

TRUSSING FOR CARS. - Ferdinand E. Canda, New York City. This invention provides for dividing the length of the car between the body bolsters into four or more panels by the addition of one or more cross sills and necessary supporting struts, the auxiliary sills, struts and truss rods being placed below the floo level to allow of supporting the central portions of the car without obstructing the floor space,

LABEL HOLDER FOR FREIGHT CARS. -Martin Williams, St. Johnsville, N. Y. This is a frame for card labels with an adjustable support journaled to rock on the frame and release the card displaying the destination, or for a similar use, to avoid nailing such cards on the side of the car, the device holding the card or label until it is designedly removed.

#### Miscellaneous.

VALVE.-Patrick Conway, New York City. In this valve the packing washer is made to bear against the smooth surface of the seat in the upper part of the bonnet, whereby the packing will wear a long time and allow no steam to escape around the stem, the valve being simple and positive and also applicable for other uses than with steam.

STRAW BURNING STOVE. - John R. Taceyand John Sharkey, Winnipeg, Manitoba, Canada, In this stove the fuel chamber is disposed laterally to the fire box, and connected therewith through a gravity cut-off damper, projections on the doors being adapted to push the fuel block. The stove is designed to burn past the gravity damper.

DRESS STEEL. - Mary E. Whalen, New York City. This steel has tabs on its outer side adjacent to its ends carrying rings, providing for the attachment of such steels to dress linings, so that there will be a flexible connection between the steels and the lining, and the elastic retaining bands will not cut a the point of connection with the steels.

AXLE NUT. - Ole Hansen, Mount Pleasant, Utah Ter. This nut is formed with a project ing flange and thread extending from the flange to the inner face of the nut, with other novel features, designed to give any desired amount of play to the wheel upon the axle, and to facilitate taking up the wear of the axle without the use of the ordinary washer.

HARNESS SADDLE.-Marcellus M. Hitt, Sheffield, Ala. This invention provides a detachable and adjustable tug strap loop adapted to clamp the skirts of the saddle, and also provides a shield attachment to the loop designed to effectually prevent the snap chafing the skirts.

TRACE CARRIER. - John S. Brown, Galveston, Texas. This is an improved back band buckle with hooks, its body portion formed of a single piece of wrought wire, the meeting edges being properly bent for the purpose, and the tongues pivoted upon the body portion, forming a cheap construction of great

HOODWINK. — Amaziah B. Grubb, Goose Lake, Iowa. This is a device particularly adapted for use on vicious horned cattle, to hinder their attempts to gore other cattle and persons, and prevent their throwing or jumping fences, the shape being such as to allow free access of air and light laterally to the animal's eyes, and permit free vision save in front.

HOSE COUPLING. - Robert Franken. Pomona, Cal. This invention provides a novel design and arrangement of parts designed to simplify the construction, while providing a coupling which may be readily coupled and uncoupled, and which will effect ively hold the coupling sections against accidental

ASSORTING MACHINE - Samuel B. Smallwood, Long Island City, N. Y. This is a machine for conveniently and automatically assorting pickles and other articles, the invention covering various novel features and details of a machine with which the operator does not touch the pickles directly with the hand, and they are not injured in the process of assorting.

FENCE.-William G. Frost, Lebanon, Ind. This invention covers novel features in a fence made of posts, wire stringers, braces, and pickets, and designed to be inexpensive and durable, easily erected, moved, or repaired, while making a good barrier against stock and not likely to injure them.

FLOWER POT TRELLIS. - John S. Brown, Galveston, Texas. This trellis consists of vertical wires having the loops and horizontal wires bent into the form of rings with lapped and adjustable

ends to increase or diminish the size of the trellis, being adapted to be applied to flower pots of various sizes to support plants or vines without interfering with their

Puzzle. - Wofford Brown, Parkersburg, West Va. Combined with a movable board are pins arranged thereon to form end triangles at diametrically opposite corners, other triangles being placed centrally thereto, while there are single corner pins, and removable balls or objects are to be made to enter the different triangles as the board is held at different angles.

WIND WHEEL.—Asa W. Chamberlin, Stratford, Iowa. In this wheel the fans have upper and lower halves with rear projections and connected by an edge rod having a stop hinged on the fan arm, there being governor balls to attach to the arms by which the wheel may be gauged so that it cannot run above a certain speed, even if the work be light, and the usual vane being dispensed with.

CENTRIFUGAL CREAM SEPARATOR. Carl A. Hult, Denver, Col., and Oscar W. Hult, New York City. In this separator the milk is supplied from a can to a spreader chamber below and thence to an inner receptacle capable of being rapidly revolved, whereby the milk is thrown in contact with the walls of the receptacle, and escapes by an outer channel, while the cream, being lighter, collects around the shaft and passes out thence through an undercut recess.

#### NEW BOOKS AND PUBLICATIONS,

GEMS AND FOREIGN STONES OF NORTH AMERICA. By George Frederick Kunz. The Scientific Publishing Company, New York. 1890. Large 8vo. Pp. 336. Price \$10.

This superb work is worthy of a high place in the literature of the subject. Its author has been for years gem expert for Tiffany & Co., New York City. He is also special agent of the United States Geological Survey and of the 11th United States census, member of the Mineralogical Survey of Great Britain and Ireland, and of the Imperial Mineralogical Society of St. Petersburg, the Society Francaise de Mineralogie, etc. The book is not only a thorough treatise upon this subject, but it is a work of art as regards both printing and illustrations. It contains eight very fine colored plates and numerous other illustrations. A chapter is devoted to pearls and remarkable foreign gems owned in the

# SCIENTIFIC AMERICAN

## BUILDING EDITION.

## MAY NUMBER.-(No. 55.)

# TABLE OF CONTENTS.

- 1. Elegant plate in colors representing a tasteful cottage of moderate cost at Buffalo, N. Y. Perspec tive elevation, floor plans, sheet of details, etc.
- Colored view of a residence at St. George, Staten Island, N. Y. Estimated cost \$20,000. Floor plans, perspective elevation, sheet of details, etc.
- 3. Stone residence, corner of St. Nicholas Place and 150th Street, New York city. S. Burrage Reed,
- 4. New buildings at Eastgate and Bridge Streets,
- 5. Engravings of the residence of J. M. Johnson Binghamton, N. Y. Perspective elevations and floor plans. Cost \$19,000 complete.
- Perspective view of the office buildings of the Gotthard Railroad in Lucerne.
- 7. An English cottage. Perspective and floor plans 8. A cottage recently erected at Binghamton, N. Y. cost complete \$3,800. Plans and perspective.
- 9. A residence in the Gothic style erected at New Brighton, S. I. Floor plans and perspective.
- 10. Excellent design of a country house recently erected at Belle Haven, Conn. Cost \$14,250 Oscar S. Teale of New York, architect. Perspec tive views and floor plans.
- A double dwelling at Yonkers, N. Y., erected at a coss of \$8,000. Plans and perspective.
- 12. Residence of Chas. Kappes, Esq., at Stapleton, Staten Island, N. Y. Cost complete \$4,000. Perspective elevation and floor plans.
- 13. Cottage at Greenwich, Conn., erected at a cost of \$7,250 complete. Floor plans and perspective.
- 14. Miscellaneous Contents: High buildings. Bad ion ebony. pavement by gas.-Art of building.-Improved dumb waiters, illustrated .- An improved skylight, illustrated.-Rogers miter planer, illustrated.-Dumb waiters and hand power elevators.-A fine window in the Convent of the Sacred Heart, illustrated.—Improved sash pulleys, illustrated.—A hot air and hot water heater, illustrated.-Colors for mortar.-Improved adjustable grooving head, illustrated.-An improved window screen frame

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References to former articles or answers should give date of paper and page or number of question.

Inquiries not answered in reasonable time should

Inquiries not answered in reasonable time should be repeated; correspondents will bear in mind that some answers require not a little research, and, though we endeavor to reply to all, either by letter or in this department, each must take his turn.

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

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Winerals sent for examination should be distinctly marked or labeled.

(2160) H. C. S. asks: What method is employed to write on glass under water, by electricity? water? A. The plate to be etched is put into a flat vessel connected with the positive pole of a secondary battery. The plate is covered with a saturated solution of saltpeter, and is then written upon with the neg-

(2161) M. G. H.-The sugar maple could not be confounded with any other species indigenous to your place. It is a large, handsome tree, with 3 to 5 lobed leaves with rounded sinuses and heart-shaped at the base. The common red or swam's maple is a smaller tree, and has reddish twigs. Sugar exists in the sap of

(2162) N. S. asks: 1. Can you give a recipe for a dip on silver that will give it a good black color, one that will give it a brown color like bronze medals? A. Use sulphide of sodium dissolved in water. To intensify the black, dip and wash metal in a solution of nitrate of mercury before 1mmersing in the sulphide solution. 2. Can you tell me a good recipe for making a neutral silver solution? A. Dissolve in nitric acid, evaporate to dryness, and fuse at a low heat.

(2163) E. A. E. asks: What is the best treatment to give the front doors of my house? They are about three years old, and painted in imitation of black walnut. The weather has made the paint run a little, and streaked, like so many veins, running in all directions. A. There is no good remedy except to burn fers to their power of forming a field of force in space. off the old paint and repaint the wood.

(2164) A. E. H. writes: 1. I want to have a lamp to read by, and I want it to be an incandescent electric lamp of about 8 candle power; could you tell me the cheapest primary battery to work, for lamp of this size? I am writing this letter by a 1/2 candle power (Edison's) 3 volt lamp by two small Bunsen cells (porous cup 3%×2), and it is giving about 1 candle power, by which I can see very well to write without any other lamp, but this way of illumination is of course very expensive. I use about 25 cents' worth of nitric acid every time I use these two small Bunsens, which is too expensive. A. A simple plunge battery would be less expensive than the Bunsen, but it would run the lamp only two or three hours without recharging. We shall soon publish a description of a battery suitable for small lamps. 2. Would accumulators be efficient for a small lamp as mentioned above? A. Accumulators would run the lamp. 3. Is there a cheap way of making and using them? A. There is no very simple and cheap way of making and charging accumulators. 4. What is the advantage of charging accumulators in different directions at first? A. To secure a deeply oxidized surface. 5. Could I use a 1 horse power water engine if I were to get the 8 light dynamo described in Supplement, No. 600? A. A 1 horse power engine will drive the 8 light dynamo. 6. Could I run the water engine by the ordinary pressure in a house? A. Yes. 7. Would it cost much to wind the field and armature if I bought the castings? A. The wire would probably cost \$4 or \$5. 8. Do you think that this dynamo could be run in an ordinary house with the ordinary water pressure? If so, would it be efficient? I mean not from a strictly practical point of view, but for using in a laboratory for comparatively strong currents. A. The pressure would be sufficient, provided the service pipe is large enough to keep up the supply. 9. How many Bunsen cells (ordinary size) would be required to run an electric motor of 1 man power? A. 8 or 10. 10. Is there a cheap way of making the metal aluminum? A. There is no very cheap process for making aluminum.

(2165) E. S. B. asks: 1. In making an induction coil such as described in Supplement, No. 160,can I use No. 36 silk-covered wire and wind close togetherinstead of using bare wire and leaving a space between each wire as I wind it? Would I get as good results by doing it the first way? A. The silk-covered wire will answer every purpose. 2. Will a secondary current ring an electric bell? A. It will ring a bell provided with a polarized magnet wound with very fine wire. 3. Can the dynamo described in Supplement, No. 161, after being changed into a motor be run by battery power? If so, how many cells will it take? A. Yes. It will require four or five large cells of plunging battery, with plates 6×8 inches. 4. Would one cell of Leclanche battery run a small 2 inch induction coil? A. Yes; provided the primary wire has sufficient length. 5. Where can I find a description of a lightning arrester? A. In any elementary work on electricity or on telegraphy. 6. I have taken a very thin wooden spool, five inches long, and wound on it two layers of No. 16 cotton covered wire, and after placing in the inside a bundle of soft iron wire and passing the current from two Leclanche cells, I cannot magnetize the iron, even when the current is passing through the coil. What is the trouble? A. Your primary wire is too large and too short for Leclanche cells: try a Grenet bichromate cell. For Leclanche cells you should use 2 layers of No. 24 wire in the primary coil. 7. Please give me the numbers of all of your papers containing descriptions of the Blake transmitter. A. Supplement, No. 250, contains a description of the Blake transmitter. 8. In the Blake transmitter can some other metal be used in the place of the platinum button? A. Platinum is preferable; copper or carbon will answer for temporary use.

(2166) L. A. C. asks: 1. How is the insulating covering wound and braided on magnet and other insulated wires? A. By special machinery. 2. a. What is ebonite? b. What is vulcanite? c. What is vulcanized rubber? A. Vulcanized India rubber, exposed to high pressure in the process. 3. When power is transmitted electrically over a distance of several miles, is the strength of current very greatly diminished by the resistance of the conducting wires? A. It depends on the resistance of the wire, and on its relation to the resistance of other parts of the circuit. As a general rule, it is largely reduced. 4. Are permanent magnets used in any part of a dynamo, and if so where? A. The field of a dynamo retains a little residual magnetism, but in the sense of your question there is no permanent magnet. 5. What can be mixed with whitewash to prevent it from being washed off by the rain? A. See query 977 for government receipt for whitewash. 6. What are the principal electrical schools in this country, and where are they? What is your opinion as to Is there a solution of chemicals used to put in the the best way in which to get an electrical education? A. All the leading universities give courses now. A college course followed by practical work is the way to learn the science. 7. How can a person obtain information concerning the educational and physical requirenecessary to enter West Point? the appointments? A. Address the superintendent. For appointments address your congressional representative. 8. In what way can a compass needle be made to point in a north and south direction after it has been partly demagnetized by the action of a strong horseshoe magnet which has lain near the compass? A. Hold the south pole of a strong magnet as near to the north pole of the needle as possible. This will improve it often if you cannot take it out of the case. 9. Is there a book published which is a dictionary of electrical and mechanical terms? If so, what is its name? A. Houston's "Electrical Dictionary," \$2.50, is an excellent work, which we can supply by mail.

(2167) W. H. S. writes: The definition of the term dielectric in Houston's dictionary is a substance which permits induction to take place through its mass, and it says further that all dielectrics are nonconductors. Now, unfortunately, Houston has omitted the definition of the term induction in his dictionary. My impression is that induction through a mass is conduction through of an electric current; consequently cannot reconcile the apparently opposite definition. A. Induction is a property of electric currents, and re-Every current develops lines of force in the space sur-

# Scientific American.

rounding it, and if these lines pass through a dielectric, no current is created by them, and their existence is revealed by a polarized needle, etc. Your impression is a wrong one.

(2168) E. V. N. asks: 1. Has the storage battery proved a success as a motor in aerial navigation, bicycling, carriages, etc.? A. No; it is too heavy, 2. What is the weight of such an apparatus compared with the power developed in horse power? A. A cell weighing 125 pounds gives energy at the rate of 70 watts, equal to a little over one-eleventh horse power. 3. Where can data on the subject be had? A. The companies dealing in and making accumulators will supply data of different sized cells. 4. What is the weight of a gas meter compared with the power produced in horse power? A. A 1 horse power gas engine will weigh about 1,000 lb.; the large will weigh less in proportion. 5. What is the consumption of gas per horse power? A. From 25 cubic feet upward. 6. What is the usage in determining the amount of storage necessary in a storage battery to develop a given power for a given length of time? A. Practical considerations affecting the duration of the plates are the basis.

(2169) G. J. L. writes: I would like to make a lotion such as the dermatologists use in removing freckles or tan.

A.	white soft soap oz.	
	Gum mucilage thick and clear	
	Finest pale honey6 "	

Mix thoroughly in a mortar, add the yolks of 5 eggs previously beaten and strained through gauze, add slowly oil of almonds (scented to taste) 21/2 pounds. When perfectly mixed add pistachio milk (made from fresh-peeled nuts and rose water) 1/4 pint, and rub up until completely mixed. This is corrosive, and acts by removing the outer cuticle.

(2170) A. P. F. writes: Will you state the ingredients, with their proportion, for forming a pickle commonly used in preserving cucumbers, mixed pickles, etc.? A. Put, after washing and drying, into boiling vinegar, add some salt, a handful to a three gallon jar, let cool. Boil up the vinegar alone every third day, and pour on the pickles until the cucumbers turn green, then add ginger and pepper to suit the taste.

(2171) A. M. G.—The plant sent for name is the common liver leaf-Hepatica triloba.

### TO INVENTORS.

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# INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

April 22, 1890,

## AND EACH BEARING THAT DATE.

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

	Crane	Insulating lining. J. F. Munsie 426,201	Reel. See Fishing reel.
Air brakes, pressure recorder for, C. A. Schroyer. 426,144			Register. See Cash register, Musical scale reg-
Alarm. See Elevator alarm.	et al	Ironing board, W. A. E. Henrici 426,014	ister.
Annunciator call, electric, W. S. Paca	Dental engine, A. Retter 426,328	Irrigating apparatus, E. C. Chapman 426,169	Rocking chair, spring, O. H. Ordway 42
Anvil and vise, combined, W. E. Canedy 426,362	Derailing switch, side track, A. Patton et al 426,058	Jeweler's stock plate, J. D. Planchamp 426,059	Roller. See Land roller.
Anvil attachment, C. M. King	Derrick, cotton loading, E. M. Field et at 426,372	Joint. See Insulated joint. Spectacle frame	Rosette machine, B. Bronson 42
Arc light, J. J. Wood	Dies, method of and apparatus for making, C.	joint.	Rotary chair, C. H. Purdy 42
Armature for electric meters, O. B. Shallen-	Grasser 426,375		Rotary engine, J. M. Farmer 42
berger 426,335	Distillation of mineral oils and like products, ap-		Ruler, F. G. Osborn 42
Artist's kit, H. M. Lord	paratus for the, Dewar & Redwood 426,173	Keyboard, transposing, A. Marcey	Sack holder, A. McDonald 42
Band cutter and feeder, M. A. Smith 426,077	Distilling and concentrating liquids, apparatus	Key fastener, W. W. Hitchcock	Saddle, C. K. Marshall 42
Bed and dresser, folding, A. & M. Lain 426,086	for, C. C. Peck	Knit fabric, H. Pulster 426,322	Safety connection, E. Thomson 42
Bed, spring, D. H. Jeffery	Door check, R. Stevenson 426,339	Knockdown box, C. F. Bosworth 426,231	Salt, manufacturing, C. C. Peck426,141, 42
Bed clethes clamp, O. R. Haight 426,011	Door hanger, W. J. Lane	Ladder, R. Hammill	Sash balance, T. B. Ross 42
Bedstead, lounge, sofa, etc., combined, M. Lang-	Door hanger, E. Y. Moore 426,298	Lamp holder, incandescent electric, P. H. Klein,	Sash fastener, G. H. King 42
horne 42 <b>6</b> .026	Door or window casing for frame buildings, Lee	Jr	Sash fastener, F. P. McGovern 42
Bell and engine indicator for pilot houses of	& Johnson 426,414	Lamp hood and support, electric, E. P. Warner 426,155	Sash fastener, Wintermute & Hernshaw 42
steam vessels, W. E. Hadlock	Door support, sliding, J. R. Payson, Jr 426,314		Sawmill attachment, E. P. Armstrong 42
Bell, call, A. F. Rockwell	Doors, device for opening and closing, E. H.	Land roller, Horey & Marsh	Screen, J. W. Boughton 42
Bench clamp, R. H. Strong 426,341	Hemenway	Lantern, combined platform and signal, M. Mor-	Screw cutting die head, J. A. Becher 42
Bending tool, rail, J. R. James 426,277	Drawbar spring pocket, C. T. Schoen	ton	Screwdriver, ratchet, R. C. Ellrich 42
Bessemer converter nozzles, machine for making,	Drier. See Clothes drier.	Latch, W. H. Stinson	Screw nail, S. E. Groff 42
C. W. Vaughan	Drier for humid materials. Buttner & Meyer 426,361	Lathes, adjustable tool holder for, J. H. Parker 426,311	Screw, wire, L. W. Merriam 42
Bicycle, Lleyd & Priest	Drilling machine, D. E. & L. E. Whiton 426,347	Leather glazing machine, G. V. Anderson 426,225	Seal lock, R. M. Sully 42
Bicycle, R. T. Torkelson 426,402	Drying machine, Proctor & Knowles 426,321	Lemon cutter and squeezer, S. T. Jull 426.188	Seat. See Car seat. Water closet seat.
Binding post, J. F. Munsie	Dumbwaiters, etc., indicator for, L. Friess 426,257	Life at sea, pillow or bolster for saving, D. Taylor 426,081	Separator. See Cream separator. Tooth sepa-
Blacking case and chair, combined, F. D. Allison. 426,090		Life-preserver, J. Christensen 426,363	rator.
Blacking stand, portable, G. W. Browne 426,234	Dynamo safety device, E. P. Clark426,108to 426,110	Lightning arrester, A. D. Spear 426,338	Sewing machine, H. H. Fefel 42
Block. See Fuse block.	Eggs, device for opening hot boiled, G. W. King 426,281	Lock. See Combination lock. Gun lock. Indi-	Sewing machine, E. Woodward 42
Board. See Ironing board. Keyboard.	Electric cables, apparatus for hauling through, J.	cator lock. Nut lock. Seal lock.	Sewing machines, button holder for button, J.
Boiler. See Tubular boiler.	F. Munsie	Lock, W Hover	Mathison 42
Boiler cleaner, F. W. Hornish		Lock, F. G. Stark	Sewing machines, trimming attachment for loop-
Boiler fitting, kitchen or stand, T. A. Swann 426,150	426,199, 426,205	Locomotives, stand pipe for supplying water to,	ed fabric, G. Cooper42
Boiler furnace, C. E. Miles		G. B. Jacksen	Shears. See Tinner's shears.
Boiler setting, steam, W. U. Fairbairn	son	Looms, wire operating device for pile fabric, W.	Sheet metal box, C. J. Hauck, Jr 42
Bolt, G. S. Lacey		Kothe	Sheet metal, embossing, A. Langerfeld 42
Books or other articles, coin-operated holder for,	Electric motor and dynamo, J. C. Henry 426,380	Lubricator, T. J. Hart	Sheet metal folding machine, S. F. Woodworth 42
C. H. Bayley		Manhole for underground electric conduits, J. F.	Ships or vessels, apparatus for raising sunken, M.
Boot or shoe soles, machine for laying channel	Electrical distribution, system of, C. J. Knitner 426.127	Munsie	Garland
flaps of, W. Gordon	Electro-magnetic instrument, P. B. Delaney 426,247		Shirt, C. L. Christmann 42
Boots, device for drying, W. G. Coffin	Electrodes for secondary batteries, manufactur	Marking instrument, B. Arnold	Shoe shanks, machine for making, Sprague &
Boring machine, J. J. Decker	ing, L. Epstein	Match and mode of making, Y. Gonzalez-Gomez., 426,007	Fowler 42
Box. See Cigar box. Knockdown box. Sheet	Elevator alarm, A. L. Brice	Measurements according to one system into	Shutter fastener and bower, W. J. Scott 42
metal box.	Elevator for letters, etc., C. E. Reid 426,418	another system, instrument for transferring.	Sight, J. J. Scholfield 42
Brake. See Car brake.	Elevator safety device, S. G. Bennett	H. Hagemann	Signal. See Railway signal.
Brake beam, truss, C. T. Schoen 426,075	Ellipsograph, A. W. Leighton	Measuring device, lumber, T. Newnham 426,305	Signaling apparatus for hotels, electric, J. J.
Brake shoe, C. W. Reepper 426.068		Meat cutter, S. T. Juli	Miller
Brake shoe, W. D. Sargent		Mechanical movement, J. A. Watson 426,343	Single acting engine, J. P. Tidwell 42
Brake shoe support, S. A. Bemis		Metal wheel, M. De Mars	Skiving machine, upper, G. F. Dunn 42
Brazing machine, J. C. Ballew		Metallic tube, C. L. Betts	Slate frame, D. Scrymgeour 42
	Engine driving gear, steam, J. Baird 425,971	Metallic tube, C. F. Erb	Smokehouse and meat safe, combined, J. M.
Brush, W. A. Quigg		Mill appliance, McCleane & Faber, Jr	Badgley 42
	Evaporating apparatus, C. C. Peck	Motor. See Car motor. Electric motor. Water	Snow from railway tracks, apparatus for remov-
Buckle, wedge, A. Telınik		motor. Wave motor.	ing, H. H. Kryger
	Exhaust nozzle, L. P. Garner	i de la companya de	Soldering device, can, R. T. Smith
Burner. See Hydrocarbon burner. Oil burner.	Exhibiting stand for oil cloths, etc., W. Doer-	Mowing machine frame, R. H. Dixon 426,248	
Button fastener. L. Witkowsky		Music leaf turner, C. I. Service 426,146	
Calendering machine, R. Butterworth 425,978		Musical instrument, Crane & Withers 425,987	
Camera. See Photographic camera.	ray		
Can opener, J. C. Myers		Nail. See Screw nail.	ing
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١	Cans, making lined, M. Ams	91 Fa
i	Cane, device for handling, C. S. Palm	)8 Fe
1	Car coupling, A. Bowron 425,97	7 <b>6   F</b> i
	Car coupling, H. A. Case	
	Car coupling, G. Mock       426,41         Car coupling, electric, L. Pfingst       426,31	
	Car door, grain, E. A. Hill	33 Fis
	Car, electric railway, J. C. Henry	62   Fla
	Car, railway, C. W. Jones	
:	Car switch, street, J. R. Potter 426,2	11   Fli
	Car ventilator, A. T. Bemis	
	Cars of inclined roads, grip for, J. M. Isenberg 426,27 Cars, trussing for railway, F. E. Canda 426,23	
	Carding engines, apparatus for grinding flats for revolving, McConnel & Higginson, Jr 426,41	Fu
	Carpet stretcher, C. Mabel 426,03	30   Fu
	Carpet sweeper, W. J. Drew	
	Carriage wrench, F. A. Wegner	24 Fu
	Cart, road, E. W. Doolittle 426,36	9∮Ga
1	Carving machine, wood, A. Dodds	08 Ga   
	Cash register and indicator, H. A. Herr	
	Cattle guard, surface, P. Merrill 426.19	93 Ga
	Chain link, J. W. Garland	Ga
	chair. Theater chair. Channel cleaner, W. Evans 426,2	Ga 54
	Checking and unchecking device, K. P. Drysdale. 426,22 Churn, C. A. Japhet	50   Ga
	Churn operating mechanism, J. T. Wright 426,35	53 Ga
	Chute, portable, Musgrave & Clarke	09   Ga
	Cigar branding machine, G. E. Le Clair	
	Clamp. See Bed clothes clamp. Bench.clamp.	Gl
١	Clasp. See Clothes line clasp. Cleaner. See Boiler cleaner. Channel cleaner.	Gr
	Clip or paper holder, E. D. Rockwell	
1	Cloth, ornamented, H. Unger 426,15 Clothes drier, A. N. Paxson 426,31	52 Gu
1	Clothes line clasp, E. Manser 426,39	92 Gr
1	Clothes tongs, W. H. Mitchell	
1	Clutch, friction, O. Crosby	39
	Coat fastener, F. Wolkow 426,08	87 . Ha
	Coiling metal rods, apparatus for, H. Roberts 426,00 Collar, dog, A. F. Nuttall	
	Collar fastener, G. S. Crosby	
	Combination lock, J. J. Deal 425,99	92 He
	Combing and brushing hatters' furs not on the skin, machinefor, C. E. Sackett 426,2	18 H
	Compound engine, A. H. Eddy 426,25 Cooking utensil, H. Chadwick 426,24	
١	Conduit, underground, J. F. Munsie	)7
	Converter, E. Wagemann 426,15	53 H
	Corn cutter, J. Weber       426,34         Corn shocker, J. Armstrong       425,96	
	Corn thinner, J. S. Lewis       426,0         Cornet, J. F. Stratton       426,3	
	Counterbalance for chutes, D. T. Denton 425,9	94 H
1	Coupling. See Car coupling. Thill coupling. Cream separator, centrifugal, C. A. & O. W. Hult. 426,2	
	Cultivator, H. Myers       426,13         Cultivator, wheel, W. E. Taft       426,23	
	Culvert, H. H. Celby	12
	Cuspidor, N. Hartmann 426,4	10   In
	Cutter. See Band cutter. Clover feed cutter. Corn cutter. Lemon cutter. Meat cutter.	In In
	Pipe cutter. Wire cutter. Cutting machines, straightener for board, T. S.	In
ŀ	Crane 425,98 Cutting pile fabrics, apparatus for, J. H. Smith	88   In In
	et al	76   Ir
2	Dental engine, A. Retter	28   Iri 58   Je
5	Derrick, cotton loading, E. M. Field et al 426,3 Dies, method of and apparatus for making, C.	
	Grasser 426,3	
)	Distillation of mineral oils and like products, apparatus for the, Dewar & Redwood 426,1	
3	Distilling and concentrating liquids, apparatus for, C. C. Peck	89   K
2		
3	Door hanger, E. Y. Moore. 428,2  Door or window casing for frame buildings, Lee	98 L
	& Johnson 426,4	
)	Door support, sliding, J. R. Payson, Jr 426,3 Doors, device for opening and closing, E. H.	14 L
1	Hemenway	
	Drier. See Clothes drier.	L
<b>1</b>	Drier for humid materials. Buttner & Meyer 426,3 Drilling machine, D. E. & L. E. Whiton 426,3	47 L
2	Drying machine, Proctor & Knowles	21 L 57 L
0	Dye, red, A. Weinberg 426,3	45   L
4	Eggs, device for opening hot boiled, G. W. King 426,2	
	Electric cables, apparatus for hauling through, J. F. Munsie 426,1	96 L
9	Electric conductors, duct for, J. F. Munsie,	L
7	Electric machine, dynamo, Wightman & Thom-	i
5 9	Electric motor, Davis & Scott, Jr 425,	991
	Electric motor and dynamo, J. C. Henry 426, Electric switch, J. P. Norton 426,	380 L
	Electrical distribution, system of, C. J. Knitner. 426.1 Electro-magnetic instrument, P. B. Delaney 426.2	127
1	Electrodes for secondary batteries, manufactur	M
ō	ing, L. Epstein	
	Elevator for letters, etc., C. E. Reid	18
	Ellipsograph, A. W. Leighton	288 i M
2	Embossing machine, thimble, J. Browning 426.6 Engine. See Compound engine. Dental engine.	M
4	Gas engine. Rotary engine. Single-acting engine.	M M
	Engine driving gear, steam, J. Baird 425.	971 M
G	Evaporating apparatus, C. C. Peck 426,	140 M
	Exercising machine, J. E. Dowd. 426, Exhaust nozzle, L. P. Garner. 426,	
	I Machinistian assent for all -1-12 THE P.	-

Fan, electric, P. Diehl		N
Feed water heater, C. E. Hudson	426,123	
Fence, hedge and wire woven, M. I Main Fifth wheel, A. E. Herman		Ni Ni
File, Lewspaper, G. W. Hoss		N
File, rotating steel, J. C. Powell		۵.
Fire escape, A. Boettcher		Oi Or
Fish hook, J. H. Lathrop		Or
Fishing reel, W. H. Keach	426,279	01
Flashlight, apparatus for producing instantaneous, A. Hemsley	426,411	Pa
Floor tightener, W. P. King	426,025	Pa
Flush tank, automatic, A. Mayer 426,033, Forging machine, R. W. Bayley		Pa
Frame. See Mowing machine frame. Slate frame.	ZA <b>U</b> 1000	Pa
Vehicle frame.		Pa
Fruit picking stand, J. C. Greenlow Funnel, J. T. Brittin		Pa
Furnace. See Boiler furnace.	120.100	
Furnace, S. J. Miles		Pe
Fuse block, T. Patterson		Pe Pe
Fuse for shells, G. Phillips		P
Gauge. See Water gauge.	400 000	Pl
Gang plank, D. C. McIntyre	426,209	Pl
drews		Pl
Gas engine, J. Mohs		PI
Gas, governor for regulating the supply of, J.	340,501	Pi
Shaw		P
Gas lighter, electric, C. H. Hinds	426,381	P
dell	425,977	P
Gas or lamps, extension fixture for, S. Bergmann.		P
Gas, purifying, W. C. Andrews	426,326	P
Gas, system for distributing, J. C. Conroy	426,172	P
Gas washer, H. J. Remmert		P
Gate, W. H. Clay	± &U,&4ŏ	[
Glue compound, R. W. Johnson	426,187	P
Grinding mill rollers, machine for, H. N. J. Mans- field	492 109	P
Guard. See Cattle guard.	±~₩,13%	P
Gun, cane, J. Frick		P
Gun lock, J. Frick		P
Gun with reversible barrels, E. I. Herrick		P
Guns, pointing or laying, J. B. G. A. Canet		P
Hammer and distributer, combined tack, J. S. Bailey	496 nos	P
Hanger. See Poor hanger. Insulating hanger.	240,000	P
Harness pad, H. B. Piatt	426,318	P
Harrow, pulverizer, and leveler, combined, C. W. Chase	426 242	P
Harrow truck, adjustable, J. & A. F. Moser	426,195	P
Hat stiffening machine, Murphy & Rundle		P
Head rest, adjustable, C. S. Rozers	420,009	P
Heater for cooperage purposes, I. M. Reed	426,325	
Heating and lighting device, W. Rennyson	426,215	R
Holder. See Lamp holder. Paper holder. Paper bag holder. Pen holder. Photographic nega		R
tive film holder. Sack holder. Spring holder.		R
Holder or clasp, S. A. Cohen	<b>425,</b> 983	R
Hoop. See Spirally crimped hoop.		R
Horses, pad for the backs of, C, Mudford	426,012	R
House. See Smoke house. Hydrocarbon burner, L. Chandor	426.168	R
Hydrocarbon burner, J. Feorst		R
		۱.
Ice roads, machine for making, G. T. Glover	<b>426,0</b> 06	R
Ice roads, machine for making, G. T. Glover Index, C. M. Cott Indicator. See Current indicator. Poison indi-	426, <b>0</b> 06 426,414	R
Index, C. M. Cott	426, <b>0</b> 06 42 <b>6</b> ,414	R
Index, C. M. Cott Indicator. See Current indicator. Poison indicator. cator. Indicator, W. R. Bouis.	426, <b>0</b> 06 426,414 426,1 <b>0</b> 3	
Index, C. M. Cott	426,006 426,414 426,103 426,097	R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie	426,414 426,414 426,103 426,097 426,121 426,202	R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating hanger for overhead supply conduc-	426,406 426,414 426,103 426,097 426,121 426,202	R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie	426,414 426,414 426,103 426,097 426,121 426,202 426,064	R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating lining. J. F. Munsie Insulating lining. J. F. Munsie. Insulator, J. F. Munsie. 1826,198.	426,006 426,414 426,103 426,097 426,121 426,202 426,064 426,201 426,203	R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating hanger for overhead supply conductors, F. B. Rae. Insulating lining, J. F. Munsie. Insulator, J. F. Munsie	426,006 426,414 426,103 426,097 426,121 426,202 426,064 426,201 426,203 426,014	R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating hanger for overhead supply conductors, F. B. Rae. Insulating lining, J. F. Munsie Insulator, J. F. Munsie. Insulator, J. F. Munsie. Insulator, J. F. Munsie. Irrigating apparatus, E. C. Chapman. Jeweler's stock plate, J. D. Planchamp.	426,006 426,414 426,103 426,097 426,121 426,202 426,064 426,201 426,014 426,169 426,059	R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating hanger for overhead supply conductors, F. B. Rae. Insulating lining. J. F. Munsie. Insulating lining. J. F. Munsie. Insulator, J. F. Munsie	426,006 426,414 426,103 426,097 426,121 426,202 426,064 426,201 426,014 426,169 426,059	R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating hanger for overhead supply conductors, F. B. Rae. Insulating lining, J. F. Munsie. Insulator, J. F. Munsie	426,006 426,414 426,103 426,097 426,121 426,202 426,064 426,201 426,014 426,169 426,169	R R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating hanger for overhead supply conductors, F. B. Rae. Insulating lining. J. F. Munsie. Insulating lining. J. F. Munsie. Insulator, J. F. Munsie. Irigating apparatus, E. C. Chapman. Jeweler's stock plate, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill. Journal bearing, S. A. Bemis.	426,006 426,414 426,103 426,097 426,121 426,202 426,203 426,204 426,169 426,059 426,048 425,973	R R R R R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating lining. J. F. Munsie. Insulator, J. F. Munsie. Irrigating apparatus, E. C. Chapman. Jeweler's stock plate, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill. Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey.	426,006 426,414 426,103 426,097 426,121 426,202 426,064 426,203 426,014 426,149 426,059 426,048 425,973 426,031	R R R R R R R R R R R R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating hanger for overhead supply conductors, F. B. Rae. Insulating lining, J. F. Munsie Insulator, J. F. Munsie. Insulator, J. F. Munsie. Irigating apparatus, E. C. Chapman. Jeweler's stock plate, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill. Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey. Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster.	426,006 426,414 426,103 426,097 426,121 426,202 426,203 426,014 426,203 426,014 426,059 426,048 425,973 426,031 426,014 426,031 426,032	R R R R R R R R R R R R S S S S S
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating compound, J. F. Munsie. Insulating lining. J. F. Munsie. Insulating lining. J. F. Munsie. Insulator, J. F. Munsie. Ironing board, W. A. E. Henrici Irrigating apparatus, E. C. Chapman. Jeweler's stock plate, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey. Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth.	426,006 426,414 426,103 426,097 426,121 426,202 426,064 426,201 426,169 426,059 426,048 425,973 426,031 426,014 426,014 426,22 426,031 426,031	R R R R R R R R R R S S S S S
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating hanger for overhead supply conductors, F. B. Rae. Insulating lining, J. F. Munsie Insulating lining, J. F. Munsie Insulator, J. F. Munsie. Insulator, J. F. Munsie. Ironing board, W. A. E. Henrici. Irrigating apparatus, E. C. Chapman. Jeweler's stock plate, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill.	426,006 426,114 426,103 426,097 426,121 426,202 426,203 426,044 426,059 426,048 425,973 426,016 426,016 426,016 426,322 426,321 426,321 426,321	R R R R R R R R R R R R S S S S S
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating hanger for overhead supply conductors, F. B. Rae. Insulating lining, J. F. Munsie. Insulator, S. E. Chapman. Jeweler's stock plate, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill. Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey. Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein.	426,006 426,114 426,097 426,121 426,092 426,064 426,201 426,169 426,169 426,169 426,059 426,031 426,031 426,031 426,031 426,031 426,031 426,180	R R R R R R R R R R R R R R R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator. W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating hanger for overhead supply conductors, F. B. Rae. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie. Insulator, J. F. Munsie. Insulator, J. F. Munsie. Ironing board, W. A. E. Henrici. Irrigating apparatus, E. C. Chapman. Jeweler's stock plate, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr Lamp hood and support, electric, E. P. Warner.	426,006 426,114 426,103 426,097 426,121 426,202 426,203 426,044 426,169 426,059 426,048 425,973 425,973 426,016 426,322 426,321 426,180 426,180	R R R R R R R R R R R R R R R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating hanger for overhead supply conductors, F. B. Rae. Insulating lining, J. F. Munsie. Insulator, J. F. Munsie Insulator, J. F. Munsie Insulator, J. F. Munsie Insulator, J. F. Munsie Insulator, See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey. Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill Lamp holder, incandescent electric, P. H. Klein. Jr. Lamp hood and support, electric, E. P. Warner. Lamp, incandescent electric, J. W. Packard. Land roller, Horey & Marsh.	426,006 426,414 426,103 426,097 426,121 426,202 426,203 426,203 426,169 426,059 426,059 426,016 426,314 426,314 426,314 426,314 426,315 426,315 426,155 426,016 426,155 426,018	R R R R R R R R R R R R R R R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating hanger for overhead supply conductors, F. B. Rae. Insulating lining, J. F. Munsie Insulator, J. F. Munsie. Insulator, J. F. Munsie. Ironing board, W. A. E. Henrici. Irrigating apparatus, E. C. Chapman. Jeweler's stock plate, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill. Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr Lamp hood and support, electric, E. P. Warner. Lamp hood and support, electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Mor-	426,006 426,114 426,103 426,097 426,121 426,202 426,203 426,044 426,169 426,059 426,048 425,973 425,973 426,016 426,322 426,321 426,180 426,180 426,180 426,180	R R R R R R R R R R R R R R R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating hanger for overhead supply conductors, F. B. Rae. Insulating lining, J. F. Munsie. Insulator, J. F. Munsie Insulator, J. F. Munsie Insulator, J. F. Munsie Insulator, J. F. Munsie Insulator, See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey. Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill Lamp holder, incandescent electric, P. H. Klein. Jr. Lamp hood and support, electric, E. P. Warner. Lamp, incandescent electric, J. W. Packard. Land roller, Horey & Marsh.	426,006 426,414 426,103 426,097 426,121 426,202 426,203 426,044 426,169 426,059 426,018 426,016 426,322 426,214 426,189 426,189 426,189 426,189 426,189 426,189 426,055 426,018	R R R R R R R R R R R R R R R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator. W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating hanger for overhead supply conductors, F. B. Rae. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie. Insulator, J. F. Munsie. Insulator, J. F. Munsie. Ironing board, W. A. E. Henrici. Irrigating apparatus, E. C. Chapman. Jeweler's stock plate, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr. Lamp hood and support, electric, E. P. Warner. Lamp hood and support, electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Latche, adjustable tool holder for, J. H. Parker.	426,006 426,114 426,103 426,097 426,121 426,202 426,203 426,203 426,169 426,059 426,048 425,973 426,016 426,322 426,031 426,189 426,189 426,055 426,041 426,04	R R R R R R R R R R R R R R R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator. W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating compound, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie. Insulator, J. P. Munsie. Insulator, S. A. E. Henrici. Irrigating apparatus, E. C. Chapman. Joint. See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill. Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey. Key fastener, W. W. Hitcheock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr. Lamp hood and support, electric, E. P. Warner. Lamp, incandescent electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Latch, W. H. Stinson. Latch, W. H. Stinson. Latch, W. H. Stinson.	426,006 426,114 426,103 426,097 426,121 426,203 426,203 426,044 426,059 426,059 426,048 425,973 426,016 426,322 426,213 426,118 426,189 426,155 426,018 426,018 426,018 426,018 426,018 426,018 426,018 426,018 426,018 426,018	R R R RR
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator. W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating hanger for overhead supply conductors, F. B. Rae. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie. Insulator, J. F. Munsie. Insulator, J. F. Munsie. Ironing board, W. A. E. Henrici. Irrigating apparatus, E. C. Chapman. Jeweler's stock plate, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr. Lamp hood and support, electric, E. P. Warner. Lamp hood and support, electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Latche, adjustable tool holder for, J. H. Parker.	426,006 426,414 426,103 426,097 426,121 426,202 426,203 426,203 426,169 426,059 426,059 426,016 426,016 426,155 426,155 426,155 426,048 426,150 426,150 426,151 426,180 426,180 426,181 426,04	R R R R R R R R R R R R R R R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating compound, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie Insulator, J. F. Munsie. Insulator, J. F. Munsie. Ironing board, W. A. E. Henrici. Irrigating apparatus, E. C. Chapman. Jeweler's stock plate, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill. Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey. Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr Lamp hood and support, electric, E. P. Warner. Lamp hood and support, electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Latch, W. H. Stinson. Letter, adjustable tool holder for, J. H. Parker. Leather glazing machine, G. V. Anderson. Lemon cutter and squeezer, S. T. Jull. Life at sea, pillow or bolster for saving, D. Taylor Lafe-preserver, J. Christensen.	426,006 426,114 426,103 426,097 426,121 426,202 426,203 426,044 426,169 426,059 426,041 426,016 426,322 426,031 426,189 426,189 426,189 426,041 426,041 426,041 426,041 426,080 426,383 426,041 426,081 426,081 426,081 426,081 426,083 426,081 426,084 426,383 426,081 426,084 426,383 426,084 426,383 426,084 426,383 426,084 426,383 426,084 426,383 426,084 426,383 426,084 426,383 426,084 426,383 426,084 426,383 426,084 426,383 426,383 426,383 426,383 426,383 426,383 426,383 426,383 426,383 426,383	R R R RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating compound, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie. Insulator, J. F. Munsie Insulator, J. F. Munsie Insulator, J. F. Munsie Insulator, J. F. Munsie Insulator, J. P. Munsie Insulator, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill. Journal bearing, S. A Bemis Keyboard, transposing, A. Marcey Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr. Lamp hood and support, electric, E. P. Warner. Lamp, incandescent electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Latch, W. H. Stinson. Lathes, adjustable tool holder for, J. H. Parker. Leather glazing machine, G. V. Anderson. Lemon cutter and squeezer, S. T. Jull. Life at sea, pillow or bolster for saving, D. Taylor Life-preserver, J. Christensen.	426,006 426,414 426,103 426,097 426,121 426,202 426,064 426,203 426,016 426,059 426,059 426,031 426,180 426,180 426,180 426,055 426,05	R R R RR
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating compound, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie Insulator, J. F. Munsie. Insulator, J. F. Munsie. Ironing board, W. A. E. Henrici. Irrigating apparatus, E. C. Chapman. Jeweler's stock plate, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey. Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr Lamp hood and support, electric, E. P. Warner. Lamp hood and support, electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Latch, W. H. Stinson. Lether, adjustable tool holder for, J. H. Parker. Leather glazing machine, G. V. Anderson. Lemon cutter and squeezer, S. T. Jull. Life at sea, pillow or bolster for saving, D. Taylor Life at sea, pillow or bolster for saving, D. Taylor Lock. See Combination lock. Gun lock. Indicator lock. Nutlock. Seal lock.	426,006 426,114 426,103 426,097 426,121 426,202 426,064 426,203 426,059 426,059 426,048 425,973 426,016 426,322 426,031 426,155 426,055 426,055 426,018 426,322 426,331 426,041 426,383 426,041 426,383 426,041 426,383 426,041 426,383 426,031 426,383 426,383 426,383 426,383 426,383	R R R RR RRRRSSSSSSSSSSSSSSSSSSSSSSSSS
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating compound, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie. Insulator, J. F. Munsie Insulator, J. P. Munsie Insulator, J. P. Munsie Insulator, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill. Journal bearing, S. A Bemis Keyboard, transposing, A. Marcey Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr. Lamp hood and support, electric, E. P. Warner. Lamp, incandescent electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Lemon cutter and squeezer, S. T. Jull. Life at sea, pillow or bolster for saving, D. Taylor Life at sea, pillow or bolster for saving, D. Taylor Life at sea, pillow or bolster for saving, D. Taylor Lufe-preserver, J. Christensen. Lightning arrester, A. D. Spear Lock, See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock. Lock, W. Hover.	426,006 426,114 426,103 426,097 426,121 426,202 426,064 426,203 426,014 426,169 426,059 426,031 426,014 426,203 426,014 426,189 426,180 426,180 426,055 426,05	R R R RR RRRRRRRRRRRRRRRRRRRRRRRRRRRRR
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating compound, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie Insulator, J. F. Munsie. Insulator, J. F. Munsie. Ironing board, W. A. E. Henrici. Irrigating apparatus, E. C. Chapman. Jeweler's stock plate, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey. Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr Lamp hood and support, electric, E. P. Warner. Lamp hood and support, electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Latch, W. H. Stinson. Lether, adjustable tool holder for, J. H. Parker. Leather glazing machine, G. V. Anderson. Lemon cutter and squeezer, S. T. Jull. Life at sea, pillow or bolster for saving, D. Taylor Life at sea, pillow or bolster for saving, D. Taylor Lock. See Combination lock. Gun lock. Indicator lock. Nutlock. Seal lock.	426,006 426,414 426,103 426,097 426,121 426,202 426,203 426,104 426,203 426,169 426,059 426,059 426,059 426,016 426,311 426,189 426,155 426,055 426,059 426,059 426,059 426,311 426,333 426,134 426,333 426,331 426,333 426,333 426,333 426,333 426,333 426,333 426,333 426,333 426,333 426,333 426,333 426,333 426,333 426,333	R R R RR RRRRRRRRRRRRRRRRRRRRRRRRRRRRR
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating compound, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie. Insulator, J. F. Munsie. Insulator, J. F. Munsie. Insulator, J. F. Munsie. Inrigating apparatus, E. C. Chapman. Jeweler's stock plate, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill. Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey. Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr. Lamp hood and support, electric, E. P. Warner. Lamp, incandescent electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Latch, W. H. Stinson. Latch, adjustable tool holder for, J. H. Parker. Leather glazing machine, G, V. Anderson. Lethes, adjustable tool holder for saving, D. Taylor Life-preserver, J. Christensen Lightning arrester, A. D. Spear. Lock, See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock. Lock, C. G. Stark. Loccomotives, stand pipe for supplying water to G. B. Jacksen.	426,006 426,114 426,103 426,097 426,121 426,202 426,203 426,059 426,059 426,041 426,169 426,059 426,016 426,322 426,031 426,189 426,189 426,189 426,189 426,189 426,323 426,041 426,480 426,323 426,041 426,480 426,333 426,041 426,333 426,041 426,333 426,041 426,333 426,041 426,333 426,041 426,333 426,041 426,333 426,041 426,333 426,041 426,333 426,041 426,333 426,041 426,333 426,333 426,333 426,34	R R R RR RRRRRRRRRRRRRRRRRRRRRRRRRRRRR
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating compound, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie. Insulator, J. P. Munsie. Insulator, J. P. Munsie. Insulator, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill. Journal bearing, S. A Bemis. Keyboard, transposing, A. Marcey. Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr. Lamp hood and support, electric, E. P. Warner. Lamp, incandescent electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Latch, W. H. Stinson. Latch, W. H. Stinson. Lether glazing machine, G. V. Anderson. Lemon cutter and squeezer, S. T. Jull. Life at sea, pillow or bolster for saving, D. Taylor Life-preserver, J. Christensen. Lightning arrester, A. D. Spear. Lock. See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock. Lock, W. Hover. Lock, F. G. Stark. Locomotives, stand pipe for supplying water to G. B. Jacksen. Looms, wire operating device for pile fabric, W.	426,006 426,114 426,103 426,097 426,121 426,202 426,064 426,203 426,016 426,059 426,018 426,018 426,018 426,311 426,180 426,018 426,018 426,018 426,018 426,331 426,018 426,331 426,018 426,331 426,031 426,333 426,333 426,333	R R R RR RRRRRRRSSSSSSSSSSSSSSSSSSSSSS
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator. W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating compound, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie Insulator, J. F. Munsie. Irigating apparatus, E. C. Chapman. Jeweler's stock plate, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill. Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey. Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr Lamp hood and support, electric, E. P. Warner. Lamp hood and support, electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Latch, W. H. Stinson. Latches, adjustable tool holder for, J. H. Parker. Leather glazing machine, G. V. Anderson. Lemon cutter and squeezer, S. T. Jull Life at sea, pillow or bolster for saving, D. Taylor Lufe-preserver, J. Christensen. Lightning arrester, A. D. Spear. Lock, See Combination lock. Gun lock. Indicator lock. Nutlock. Seal lock. Lock, W. H. Over. Lock, F. G. Stark. Locomotives, stand pipe for supplying water to G. B. Jacksen. Looms, wire operating device for pile fabric, W. Kothe.	426,006 426,114 426,103 426,097 426,121 426,202 426,064 426,203 426,059 426,059 426,041 425,973 426,016 426,322 426,031 426,155 426,05	R R R R R R R R R R R R R R R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating compound, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie. Insulator, J. F. Munsie Insulator, J. P. Munsie Insulator, J. P. Munsie Insulator, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill. Journal bearing, S. A Bemis Keyboard, transposing, A. Marcey Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth Ladder, R. Hammill Lamp holder, incandescent electric, P. H. Klein. Jr. Lamp hood and support, electric, E. P. Warner. Lamp, incandescent electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Latch, W. H. Stinson. Latch, W. H. Stinson. Latch, W. H. Stinson. Lathes, adjustable tool holder for, J. H. Parker. Leather glazing machine, G. V. Anderson. Lemon cutter and squeezer, S. T. Jull. Life at sea, pillow or bolster for saving, D. Taylor Life tas sea, pillow or bolster for saving, D. Taylor Lufe-preserver, J. Christensen. Lightning arrester, A. D. Spear. Lock, See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock. Lock, W. Hover. Lock, F. G. Stark. Locomotives, stand pipe for supplying water to G. B. Jacksen. Looms, wire operating device for pile fabric, W. Kothe. Lubricator, T. J. Hart. Manhole for underground electric conduits, J. F.	426,006 426,414  426,103 426,097 426,121 426,202 426,064 426,201 426,203 426,014 426,169 426,059  426,018 426,018 426,189 426,155 426,0155 426,0155 426,0156 426,059  426,231 426,180 426,331 426,231 426,231 426,338 426,338	R R R R R R R R R R R R R R R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator. W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating compound, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie. Insulator, J. F. Munsie Insulator, J. F. Munsie Insulator, J. F. Munsie Insulator, J. D. Planchamp. Jeweler's stock plate, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill. Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey. Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr. Lamp hood and support, electric, E. P. Warner. Lamp, incandescent electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Latch, W. H. Stinson. Lathes, adjustable tool holder for, J. H. Parker. Leather glazing machine, G, V. Anderson. Lemon cutter and squeezer, S. T. Jull. Liffe at sea, pillow or bolster for saving, D. Taylor Life at sea, pillow or bolster for saving, D. Taylor Life at sea, pillow or bolster for saving, D. Taylor Life at sea, pillow or bolster for saving, D. Taylor Life at sea, pillow or bolster for saving, D. Taylor Lock, See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock. Lock, W. H. Over. Lock, See Combination lock Gun lock. Indicator lock, Nut lock. Seal lock Lock, W. H. Stinson.	426,006 426,114 426,103 426,097 426,121 426,202 426,064 426,201 426,203 426,016 426,059 426,018 426,016 426,231 426,155 426,055 426,051 426,051 426,231 426,189 426,155 426,053 426,311 426,255 426,031 426,480 426,311 426,480 426,311 426,480 426,311 426,480 426,311 426,480 426,311 426,480 426,311 426,480 426,311 426,255 426,138	R R R R R R R R R R R R R R R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie Insulating compound, J. F. Munsie Insulating lining, J. F. Munsie Insulating lining, J. F. Munsie Insulating lining, J. F. Munsie Insulator, J. P. Munsie Insulator, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill. Journal bearing, S. A Bemis Keyboard, transposing, A. Marcey Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill Lamp holder, incandescent electric, P. H. Klein. Jr. Lamp hood and support, electric, E. P. Warner. Lamp, incandescent electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Lemon cutter and squeezer, S. T. Jull. Life at sea, pillow or bolster for saving, D. Taylor Luffe-preserver, J. Christensen Lightning arrester, A. D. Spear Lock, See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock. Lock, W. Hover. Lock, F. G. Stark Locomotives, stand pipe for supplying water to G. B. Jacksen. Looms, wire operating device for pile fabric, W. Kothe. Lubricator, T. J. Hart Manhole for underground electric conduits, J. F. Munsie. Manometer, registering, Lusuardi & Falco. Marking instrument, B. Arnold	426,006 426,414  426,103 426,097 426,121 426,202 426,064 426,203 426,014 426,169 426,059  426,0181 426,180 426,180 426,181 426,184 426,284 426,383 426,383 426,383 426,383 426,383 426,383 426,383 426,383 426,383	R R R R R R R R R R R R R R R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator. W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating compound, J. F. Munsie. Insulating lining. J. F. Munsie. Insulating lining. J. F. Munsie. Insulator, J. P. Munsie. Insulator, J. P. Munsie. Insulator, J. P. Munsie. Insulator, J. P. Munsie. Insulator, J. D. Planchamp. Jeweler's stock plate, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey. Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr. Lamp hood and support, electric, E. P. Warner. Lamp, incandescent electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Latch, W. H. Stinson. Lathes, adjustable tool holder for, J. H. Parker. Leather glazing machine, G. V. Anderson. Lemon cutter and squeezer, S. T. Jull. Life at sea, pillow or bolster for saving, D. Taylor Life at sea, pillow or bolster for saving, D. Taylor Life at sea, pillow or bolster for saving, D. Taylor Life at sea, pillow or bolster for saving, D. Taylor Left sea, pillow or bolster for saving, D. Taylor Left sea, pillow or bolster for saving, D. Taylor Left at sea, pillow or bolster for saving, D. Taylor Left at sea, pillow or bolster for saving, D. Taylor Left at sea, pillow or bolster for saving, D. Taylor Left at sea, pillow or bolster for saving, D. Taylor Left at sea, pillow or bolster for saving, D. Taylor Left at sea, pillow or bolster for saving, D. Taylor Left at sea, pillow or bolst	426,006 426,414  426,103 426,097 426,121 426,202 426,064 426,203 426,059  426,016 426,059  426,016 426,016 426,016 426,016 426,311 426,155 426,058 426,058 426,058 426,058 426,058 426,338 426,338 426,338 426,338 426,338	R R R R R R R R R R R R R R R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating compound, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie Insulator, J. F. Munsie. Insulator, J. F. Munsie. Insulator, J. F. Munsie. Ironing board, W. A. E. Henrici. Irrigating apparatus, E. C. Chapman. Jeweler's stock plate, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill. Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey. Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr Lamp hood and support, electric, E. P. Warner. Lamp hood and support, electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Latche, adjustable tool holder for, J. H. Parker. Leather glazing machine, G. V. Anderson. Lemon cutter and squeezer, S. T. Jull. Life at sea, pillow or bolster for saving, D. Taylor Life-preserver, J. Christensen. Lightning arrester, A. D. Spear. Lock. See Combination lock. Gun lock. Indicator lock. Nutlock. Seal lock. Lock, W. H. Over. Lock, F. G. Stark. Locomotives, stand pipe for supplying water to G. B. Jacksøn. Looms, wire operating device for pile fabric, W. Kothe. Lubricator, T. J. Hart. Manhole for underground electric conduits, J. F. Munsie. Manometer, registering, Lusuardi & Falco. Marking instrument, B. Arnold Match and mode of making, Y. Gonzalez-Gomez. Measurements according to one system into	426,006 426,114 426,103 426,097 426,121 426,202 426,064 426,201 426,203 426,059 426,059 426,018 426,016 426,322 426,231 426,189 426,155 426,055 426,018 426,259 426,231 426,259 426,263 426,273 426,273 426,273 426,273 426,273 426,273 426,273	R R R R R R R R R R R R R R R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator. See Current indicator. Poison indicator. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating compound, J. F. Munsie. Insulating lining. J. F. Munsie. Insulating lining. J. F. Munsie. Insulator, J. P. Munsie. Insulator, J. P. Munsie. Insulator, J. P. Munsie. Insulator, J. P. Pulanchamp. Joint. See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey. Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr Lamp hood and support, electric, E. P. Warner. Lamp, incandescent electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Latch, W. H. Stinson. Lathes, adjustable tool holder for, J. H. Parker. Leather glazing machine, G. V. Anderson. Lemon cutter and squeezer, S. T. Jull. Life at sea, pillow or bolster for saving, D. Taylor Life at sea, pillow or bolster for saving, D. Taylor Life at sea, pillow or bolster for saving, D. Taylor Life at sea, pillow or bolster for saving, D. Taylor Life at sea, pillow or bolster for saving, D. Taylor Leock, See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock. Lock, W. Hover. Lock, F. G. Stark. Locomotives, stand pipe for supplying water to G. B. Jacksen. Looms, wire operating device for pile fabric, W. Kothe. Lubricator, T. J. Hart. Manhole for underground electric conduits, J. F. Munsie. Manometer, registering, Lusuardi & Falco. Marking instrument, B. Arnold Match and mode of making, Y. Gonzalez-Gomez. M	426,006 426,414  426,103 426,097 426,121 426,202 426,064 426,203 426,059  426,016 426,016 425,973 426,016 426,231 426,155 426,058 426,311 426,231 426,480 426,338 426,338 426,338 426,338 426,338 426,338 426,338 426,377 426,206 426,007	R R R R R R R R R R R R R R R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating compound, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie Insulator, J. F. Munsie. Insulator, J. F. Munsie. Insulator, J. F. Munsie. Ironing board, W. A. E. Henrici. Irrigating apparatus, E. C. Chapman. Jeweler's stock plate, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill. Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey. Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr. Lamp hood and support, electric, E. P. Warner. Lamp hood and support, electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Latche, adjustable tool holder for, J. H. Parker. Leather glazing machine, G. V. Anderson. Lemon cutter and squeezer, S. T. Jull. Life at sea, pillow or bolster for saving, D. Taylor Life-preserver, J. Christensen. Lightning arrester, A. D. Spear. Lock, See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock. Lock, W. H. Over. Lock, See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock. Lock, G. G. Stark. Locomotives, stand pipe for supplying water to G. B. Jacksen. Looms, wire operating device for pile fabric, W. Kothe. Lubricator, T. J. Hart. Manhole for underground electric conduits, J. F. Munsie. Manometer, registering, Lusuardi & Falco. Marking instrument, B. Arnold Match and mode of making, Y. Gonzalez-Gomez. Measurements according to one system into another system, instrument for transferring H. Hagemann. Measuring device, lumber, T. Newnham.	426,006 426,414  426,103 426,097 426,121 426,202 426,064 426,203 426,016 426,016 426,018 426,016 426,016 426,016 426,016 426,018 426,189 426,155 426,018 426,016 426,322 426,231 426,189 426,189 426,311 426,225 426,031 426,016 426,017 426,018 426,018 426,018 426,018 426,018 426,018 426,018 426,018 426,018 426,018 426,018 426,018 426,018 426,018 426,018 426,010 426,009 426,009 426,009 426,000 426,000	R R R R R R R R R R R R R R R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator. See Current indicator. Poison indicator. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating compound, J. F. Munsie. Insulating lining. J. F. Munsie. Insulating lining. J. F. Munsie. Insulator, J. P. Munsie. Insulator, J. P. Munsie. Insulator, J. P. Munsie. Insulator, J. P. Pulanchamp. Joint. See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey. Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr Lamp hood and support, electric, E. P. Warner. Lamp, incandescent electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Latch, W. H. Stinson. Lathes, adjustable tool holder for, J. H. Parker. Leather glazing machine, G. V. Anderson. Lemon cutter and squeezer, S. T. Jull. Life at sea, pillow or bolster for saving, D. Taylor Life at sea, pillow or bolster for saving, D. Taylor Life at sea, pillow or bolster for saving, D. Taylor Life at sea, pillow or bolster for saving, D. Taylor Life at sea, pillow or bolster for saving, D. Taylor Leock, See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock. Lock, W. Hover. Lock, F. G. Stark. Locomotives, stand pipe for supplying water to G. B. Jacksen. Looms, wire operating device for pile fabric, W. Kothe. Lubricator, T. J. Hart. Manhole for underground electric conduits, J. F. Munsie. Manometer, registering, Lusuardi & Falco. Marking instrument, B. Arnold Match and mode of making, Y. Gonzalez-Gomez. M	426,006 426,414  426,103 426,097 426,121 426,202 426,064 426,201 426,203 426,014 426,169 426,031 426,018 426,189 426,016 426,311 426,281 426,338	R R R R R R R R R R R R R R R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator. W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating compound, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie Insulator, J. F. Munsie. Insulator, J. F. Munsie. Ironing board, W. A. E. Henrici. Irrigating apparatus, E. C. Chapman. Jeweler's stock plate, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey. Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr Lamp hood and support, electric, E. P. Warner. Lamp, incandescent electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Latche, adjustable tool holder for, J. H. Parker. Leather glazing machine, G. V. Anderson. Lether glazing machine, G. V. Anderson. Lether glazing mrester, A. D. Spear. Life at sea, pillow or bolster for saving, D. Taylor Life-preserver, J. Christensen. Lightning arrester, A. D. Spear. Lock, See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock. Lock, W. H. Over. Lock, See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock. Lock, G. Stark. Locomotives, stand pipe for supplying water to G. B. Jacksen. Looms, wire operating device for pile fabric, W. Kothe. Lubricator, T. J. Hart. Manhole for underground electric conduits, J. F. Munsie. Manometer, registering, Lusuardi & Falco. Marking instrument, B. Arnold Match and mode of making, Y. Gonzalez-Gomez. Measurements according to one system into another system, instrument for transferring H. Hagemann. Meat cutter, S. T. Juli. Mechanical movement, J. A. Watson. Metal wheel, M. De Mars.	426,006 426,414  426,103 426,097 426,121 426,202 426,064 426,203 426,016 426,016 426,018 426,016 426,323 426,155 426,059 426,059 426,231 426,155 426,059 426,231 426,155 426,059 426,311 426,225 426,338 426,363 426,377 426,079 426,007 426,007	R R R R R R R R R R R R R R R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating compound, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie. Insulator, J. P. Munsie. Insulator, J. P. Munsie. Insulator, J. P. Munsie. Insulator, J. P. Munsie. Insulator, See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill. Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey. Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr. Lamp hood and support, electric, E. P. Warner. Lamp, incandescent electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Latch, W. H. Stinson. Latch, W. H. Stinson. Lather glazing machine, G. V. Anderson. Lemon cutter and squeezer, S. T. Jull. Life at sea, pillow or bolster for saving, D. Taylor Life-preserver, J. Christensen Lightning arrester, A. D. Spear. Lock. See Combination lock. Gun lock. Indicator, Stark. Locomotives, stand pipe for supplying water to G. B. Jackson. Looms, wire operating device for pile fabric, W. Kothe. Lubricator, T. J. Hart. Manhole for underground electric conduits, J. F. Munsie. Machalicator, T. J. Hart. Manhole for underground electric conduits, J. F. Munsie. Manometer, registering, Lusuardi & Falco. Marking instrument, B. Arnold Match and mode of making, Y. Gonzalez-Gomez. Measurrements according to one system into another system, instrument for transferring H. Hagemann. Measuring device, lu	426,006 426,414  426,103 426,097 426,121 426,202 426,064 426,201 426,203 426,014 426,169 426,031 426,018 426,189 426,010 426,311 426,284 426,338	R R R R R R R R R R R R R R R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator. W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating compound, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie Insulator, J. F. Munsie. Insulator, J. F. Munsie. Ironing board, W. A. E. Henrici. Irrigating apparatus, E. C. Chapman. Jeweler's stock plate, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Journal bearing, S. A. Bemis. Keyboard, transposing, A. Marcey. Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr Lamp hood and support, electric, E. P. Warner. Lamp, incandescent electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Latche, adjustable tool holder for, J. H. Parker. Leather glazing machine, G. V. Anderson. Lether glazing machine, G. V. Anderson. Lether glazing mrester, A. D. Spear. Life at sea, pillow or bolster for saving, D. Taylor Life-preserver, J. Christensen. Lightning arrester, A. D. Spear. Lock, See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock. Lock, W. H. Over. Lock, See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock. Lock, G. Stark. Locomotives, stand pipe for supplying water to G. B. Jacksen. Looms, wire operating device for pile fabric, W. Kothe. Lubricator, T. J. Hart. Manhole for underground electric conduits, J. F. Munsie. Manometer, registering, Lusuardi & Falco. Marking instrument, B. Arnold Match and mode of making, Y. Gonzalez-Gomez. Measurements according to one system into another system, instrument for transferring H. Hagemann. Meat cutter, S. T. Juli. Mechanical movement, J. A. Watson. Metal wheel, M. De Mars.	426,006 426,414  426,103 426,097 426,121 426,202 426,064 426,203 426,016 426,203 426,016 426,016 426,016 426,016 426,016 426,016 426,016 426,016 426,016 426,016 426,016 426,303 426,363 426,363 426,363 426,377 426,266 426,029 426,000 426,305 426,000	R R R R R R R R R R R R R R R R R R R
Index, C. M. Cott. Indicator. See Current indicator. Poison indicator. Indicator, W. R. Bouis. Indicator lock, J. C. Barr. Insulated joint, E. F. Gennert. Insulating compound, J. F. Munsie. Insulating compound, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie. Insulating lining, J. F. Munsie. Insulator, J. F. Munsie Insulator, J. F. Munsie Insulator, J. F. Munsie Insulator, J. P. Munsie Insulator, J. D. Planchamp. Joint. See Insulated joint. Spectacle frame joint. Joint fastening device, G. T. Neill. Journal bearing, S. A Bemis Keyboard, transposing, A. Marcey Key fastener, W. W. Hitchcock. Knit fabric, H. Pulster. Knockdown box, C. F. Bosworth. Ladder, R. Hammill. Lamp holder, incandescent electric, P. H. Klein. Jr. Lamp hood and support, electric, E. P. Warner. Lamp, incandescent electric, J. W. Packard. Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton. Latch, W. H. Stinson. Lemon cutter and squeezer, S. T. Jull. Life at sea, pillow or bolster for saving, D. Taylor Lufe-preserver, J. Christensen. Lightning arrester, A. D. Spear. Lock, See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock. Lock, W. Hover. Lock, F. G. Stark. Locomotives, stand pipe for supplying water to G. B. Jacksen. Looms, wire operating device for pile fabric, W. Kothe. Lubricator, T. J. Hart. Manhole for underground electric conduits, J. F. Munsie. Machanical movement, B. Arnold Match and mode of making, Y. Gonzalez-Gomez. Measurements according to one system into another system, instrument for transferring H. Hagemann. Measuring device, lumber, T. Newnham. Measuring	426,006 426,414  426,103 426,097 426,121 426,202 426,064 426,201 426,203 426,016 426,016 425,973 426,016 426,311 426,189 426,155 426,059 426,059 426,059 426,059 426,059 426,059 426,059 426,059 426,059 426,059 426,059 426,059 426,059 426,059 426,059 426,059 426,059 426,059 426,079 426,081 426,225 426,338 426,338 426,338 426,338 426,338 426,377 426,269 426,009 426,007 426,009 426,009 426,000 426,305	R R R R R R R R R R R R R R R R R R R

Cans, making lined, M. Ams		Fan, electric, P. Diehl		Howard	426.274
Car brake, T. S. Shenston	426,336	Fence, hedge and wire woven, M. I. Main	426,291	Nut lock, T. C. Harris	426,276
Car coupling, A. Bowron		Fifth wheel, A. E. Herman File, Lewspaper, G. W. Hoss		Nut lock, G. M. Kifer  Nuts for screw bolts, manufacture of lock, A. B.	426.387
Car coupling, H. F. Hemm		File, rotating steel, J. C. Powell		Ibbotson	•
Car coupling, G. Mock		Fire escape, A. Boettcher		Oil burner, injector, J. B. Moore	
Car door, grain, E. A. Hill	426,183	Fish hook, J. H. Lathrop		Ore feeder, L. D. Craig	
Car, electric railway, J. C. Henry		Fishing reel, W. H. Keach	426,279	Oven, portable, G. W. Walker	
Car, railway, C. W. Jones	426,385	ous, A. Hemsley		Packing device, G. B. Garrison	426,178
Car seat, auxiliary, N. Joergensen		Floor tightener, W. P. King		Packing, piston rod, A. J. Sypher Pad. See Harness pad.	<b>426,</b> 39.
Car ventilator, A. T. Bemis		Forging machine, R. W. Bayley		Padlock, permutation, W. M. Brooke	
Cars, label holder for freight, M. Williams Cars of inclined roads, grip for, J. M. Isenberg		Frame. See Mowing machine frame. Slate frame. Vehicle frame.	- 1	Pawl and ratchet mechanism, Dille & McGuire Paper bag holder, W. B. Morlan	
Cars, trussing for railway, F. E. Canda		Fruit picking stand, J. C. Greenlow	426,267	Paper holder and cutter, roll, G. E. Yarger	
Carding engines, apparatus for grinding flats for revolving, McConnel & Higginson, Jr	496 416	Funnel, J. T. Brittin	426.165	Paper making machines, suction box for, Young &	496 000
Carpet stretcher, C. Mabel		Furnace. See Boiler furnace. Furnace, S. J. Miles	426.038	Davis	
Carpet sweeper, W. J. Drew		Fuse block, T. Patterson		Pen holder, E. Faber	
Carriage, jump seat, M. Woodhull Carriage wrench, F. A. Wegner		Fuse block, F. G. Warrell		Pen holder for cripples, R. Ramsey  Pencil sharpener, T. Jenni	
Carrier track, W. & C. A. Gutenkunst		Gauge. See Water gauge.	1	Photographic camera, Merritt & Spencer426,295,	
Cart, road, E. W. Doolittle		Gas, apparatus for the purification of, W. C. An-	426,209	Photographic dry plate coating machine, Swaine Moody	426,420
Case. See Blacking case. Thermometer case.	•	drews		Photographic negative film holder, F. S. Osborne.	426,054
Cash register and indicator, H. A. Herr Caster, H. Howell		Gas engine, J. Mohs		Photographic purposes, petroleum lamp for, M.  Jljinsky	426,023
Cattle guard, surface, P. Merrill	426.193	Gas, governor for regulating the supply of, J.		Pianos, music rack for upright, G. M. Guild	426,268
Chain link, J. W. Garland		ShawGas lighter, electric, C. H. Hinds		Pianos, repetition action for, F. Schaaf  Pipe cutter, H. Comstock	
chair. Theater chair.	400.054	Gas manufacturing apparatus, water, C. E. Bur-		Pipe wrench, F. Virgien	
Channel cleaner, W. Evans		dell		Planter, J. T. Wright	420,804
Churn, C. A. Japhet		Gas, purifying, W. C. Andrews		Turner	-
Churn operating mechanism, J. T. Wright Chute, portable, Musgrave & Clarke		Gas scrubber, H. J. Remmert		Planter, corn, G. W. & F. P. Murphey  Planter, corn, E. R. Procter	
Cigar box, D. W. Parker	426,309	Gas washer, H. J. Remmert	426,327	Plow, J. M. Burrows	426,166
Organ branding machine, G. E. Le Clair  Dircuit closer, magnetic, J. Von der Kammer		Gate, W. H. Clay	426,243	Plows and listers, open mould board and share for, J. Hammell	
Clamp. See Bed clothes clamp. Bench.clamp.	.	Glue compound, R. W. Johnson	426,187	Poison indicator, W. H. Wallace, Jr	
Clasp. See Clothes line clasp. Cleaner. See Boiler cleaner. Channel cleaner.		Grinding mill rollers, machine for, H. N. J. Mansfield	426.192	Post. See Binding post.  Power transmitting mechanism, G. F. Evans	426.370
Clip or paper holder, E. D. Rockwell		Guard. See Cattle guard.	İ	Print or picture, indelible, Colburn & France	426,170
Closet attachment, R. V. Baraco		Gun, cane, J. Frick		Printing, plate holder for mechanical, H. H. E. G. Kohl	
Clothes drier, A. N. Paxson	426,313	Gun, machine, J. G. Accles	426,356	Propeller, hydraulic, A. De Kunwald	426,285
Clothes line clasp, E. Manser		Gun with reversible barrels, E. I. Herrick Guns, pointing or laying, J. B. G. A. Canet		Propelling vessels, J. S. Morton  Propelling vessels, means for, J. S. Morton	
Clover feed cutter, I. B. Coleman	426.364	Hammer and distributer, combined tack, J. S.		Protector. See Tree protector.	
Clutch, friction, O. Crosby		Bailey Hanger. See Poor hanger. Insulating hanger.	426,095	Pulley, A. W. Michael	
Coat fastener, F. Wolkow	426,087	Harness pad, H. B. Piatt	426,318	Pulley, split, W. F. Maish	426,292
Coiling metal rods, apparatus for, H. Roberts Collar, dog, A. F. Nuttall		Harrow, pulverizer, and leveler, combined, C. W. Chase	426.242	Pulp machine, fruit and vegetable, C. S. Bucklin Pulp tearing machine, wood, W. O. Russell	
Collar fastener, G. S. Crosby	426,246	Harrow truck, adjustable, J. & A. F. Moser	426,195	Pump, mercury, F. B. Hill	426,184
Collar, horse, Degnan & Meyer		Hat stiffening machine, Murphy & Rundle		Pump operating apparatus, J. W. Packard  Pump, steam, R. Everitt	
Combing and brushing hatters' furs not on the		Heater. See Feedwater heater. Water heater.		Punching and shearing machine, combined, H.	
skin, machinefor, C. E. Sackett		Heater for cooperage purposes, I. M. Reed Heating and lighting device, W. Rennyson		Stolpe	
Cooking utensil, H. Chadwick	426,240	Holder. See Lamp holder. Paper holder. Paper		Railway, M. W. Oilver	
Conduit, underground, J. F. Munsie		bag holder. Pen holder. Photographic nega- tive film holder. Sack holder. Spring holder.	· i	Railway contact, electric, F. O. Blackwell	
Converter, E. Wagemann		Holder or clasp, S. A. Cohen	425,983	Railway, electric, R. M. Hunter	
Corn shocker, J. Armstrong	425,969	Hoop. See Spirally crimped hoop.	ĺ	Railway signal, electric, G. A. Tower	426,222
Corn thinner, J. S. Lewis		Horses, pad for the backs of, C, Mudford House. See Smoke house.	426,012	Railway signaling, apparatus for electric, C. H. Rudd	
Counterbalance for chutes, D. T. Denton		Hydrocarbon burner, L. Chandor		Railway system, electric, L. Gutmann	426,269
Coupling. See Car coupling. Thill coupling. Cream separator, centrifugal, C. A. & O. W. Hult.	426,275	Hydrocarbon burner, J. Feorst		Railway tie, J. Porter	
Cultivator, H. MyersCultivator, wheel, W. E. Taft		Index, C. M. Cott	426,414	Kryger	
Culvert, H. H. Colby	426,112	Indicator. See Current indicator. Poison indicator.		tween the rails of. H. H. Kryger	<b>426,</b> 131
Current indicator, F. B. Rae		Indicator, W. R. Bouis		Railways, switch movement for street, H. L. Nodler	
Cutter. See Band cutter. Clover feed cutter.		Insulated joint, E. F. Gennert	426,121	Razor or other strops, composition for, H. A.	
Corn cutter. Lemon cutter. Meat cutter. Pipe cutter. Wire cutter.	'	Insulating compound, J. F. Munsie	426,202	Parker	
Cutting machines, straightener for board, T. S. Crane	425 988	tors, F. B. Rae		sickles of harvest, J. W. Greene	426,122
Cutting pile fabrics, apparatus for, J. H. Smith		Insulator, J. F. Munsie	426,203	Register. See Cash register, Musical scale reg-	
et al Dental engine, A. Retter		Ironing board, W. A. E. Henrici		ister.  Rocking chair, spring, O. H. Ordway	426.05.3
Derailing switch, side track, A. Patton et al	426,058	Jeweler's stock plate, J. D. Planchamp	426,059	Roller. See Land roller.	
Derrick, cotton loading, E. M. Field et al  Dies, method of and apparatus for making, C.		Joint. See Insulated joint. Spectacle frame joint.		Rosette machine, B. Bronson	
Grasser	426,375	Joint fastening device, G. T. Neill		Rotary engine, J. M. Farmer	
Distillation of mineral oils and like products, ap- paratus for the, Dewar & Redwood		Journal bearing, S. A. Bemis		Ruler, F. G. Osborn Sack holder, A. McDonald	
Distilling and concentrating liquids, apparatus		Key fastener, W. W. Hitchcock	426,016	Saddle, C. K. Marshall	426,032
for, C. C. Peck		Knit fabric, H. Pulster Knockdown box, C. F. Bosworth		Salt, manufacturing, C. C. Peck	
Door hanger, W. J. Lane	426,350	Ladder, R. Hammill		Sash balance, T. B. Ross	
Anne Danger, B. Y. MOOTE	100 000				200,000
Door or window casing for frame buildings, Lee	:	Lamp holder, incandescent electric, P. H. Klein, Jr	426,189	Sash fastener, F. P. McGovern	
Door or window casing for frame buildings, Lee & Johnson	426,414	Lamp holder, incandescent electric, P. H. Klein, Jr	<b>426,</b> 189 <b>4</b> 2 <b>6,</b> 155	Sash fastener, F. P. McGovern	426,494
Door or window casing for frame buildings, Lee & Johnson	426,414 426,314	Lamp holder, incandescent electric, P. H. Klein, Jr Lamp hood and support, electric, E. P. Warner Lamp, incandescent electric, J. W. Packard Land roller, Horey & Marsh	426,189 426,155 426,055 426,018	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw Sawmill attachment, E. P. Armstrong Screen, J. W. Boughton	426,404 426,357 426,232
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr  Doors, device for opening and closing, E. H. Hemenway.	426,414 426,314 426,481	Lamp holder, incandescent electric, P. H. Klein, Jr  Lamp hood and support, electric, E. P. Warner  Lamp, incandescent electric, J. W. Packard  Land roller, Horey & Marsh  Lantern, combined platform and signal, M. Mor-	426,189 426,155 426,055 426,018	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw Sawmill attachment, E. P. Armstrong Screen, J. W. Boughton Screw cutting die head, J. A. Becher	426,494 426,357 426,232 426,228
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr.  Doors, device for opening and closing, E. H.  Hemenway.  Drawbar spring pocket, C. T. Schoen.  Drier. See Clothes drier.	426,414 426,314 426,481 426,143	Lamp holder, incandescent electric, P. H. Klein, Jr  Lamp hood and support, electric, E. P. Warner  Lamp, incandescent electric, J. W. Packard  Land roller, Horey & Marsh  Lantern, combined platform and signal, M. Morton  Latch, W. H. Stinson	426,189 426,155 426,055 426,018 426,041 426,080	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw. Sawmill attachment, E. P. Armstrong. Screen, J. W. Boughton. Screw cutting die head, J. A. Becher. Screwdriver, ratchet, R. C. Ellrich. Screw nail, S. E. Groff.	426,494 426,357 426,232 426,228 425,988 426,008
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr  Doors, device for opening and closing, E. H. Hemenway  Drawbar spring pocket, C. T. Schoen  Drier. See Clothes drier.  Drier for humid materials. Buttner & Meyer	426,414 426,314 426,481 426,143 426,361	Lamp holder, incandescent electric, P. H. Klein, Jr  Lamp hood and support, electric, E. P. Warner  Lamp, incandescent electric, J. W. Packard  Land roller, Horey & Marsh  Lantern, combined platform and signal, M. Morton  Latch, W. H. Stinson  Lathes, adjustable tool holder for, J. H. Parker	426,189 426,155 426,055 426,018 426,041 426,480 426,311	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw Sawmill attachment, E. P. Armstrong Screen, J. W. Boughton Screw cutting die head, J. A. Becher Screwdriver, ratchet, R. C. Ellrich Screw nail, S. E. Groff Screw, wire, L. W. Merriam	426,404 426,357 426,232 426,228 425,988 426,008 426,294
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr.  Doors, device for opening and closing, E. H.  Hemenway.  Drawbar spring pocket, C. T. Schoen.  Drier. See Clothes drier.  Drier for humid materials. Buttner & Meyer.  Drilling machine, D. E. & L. E. Whiton.  Drying machine, Proctor & Knowles.	426,414 426,314 426,481 426,481 426,361 426,361 426,347 426,321	Lamp holder, incandescent electric, P. H. Klein, Jr  Lamp hood and support, electric, E. P. Warner  Lamp, incandescent electric, J. W. Packard  Land roller, Horey & Marsh.  Lantern, combined platform and signal, M. Morton  Latch, W. H. Stinson  Lathes, adjustable tool holder for, J. H. Parker  Leather glazing machine, G. V. Anderson  Lemon cutter and squeezer, S. T. Jull	426,189 426,155 426,055 426,018 426,041 426,480 426,311 426,225 426,188	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw Sawmill attachment, E. P. Armstrong Screen, J. W. Boughton Screw cutting die head, J. A. Becher Screwdriver, ratchet, R. C. Ellrich Screw nail, S. E. Groff Screw, wire, L. W. Merriam Seal lock, R. M. Sully Seat. See Car seat. Water closet seat.	426,404 426,357 426,232 426,228 425,988 426,008 426,294 426,220
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr.  Doors, device for opening and closing, E. H.  Hemenway.  Drawbar spring pocket, C. T. Schoen.  Drier. See Clothes drier.  Drier for humid materials, Buttner & Meyer.  Drilling machine, D. E. & L. E. Whiton.  Drying machine, Proctor & Knowles.  Dumbwaiters, etc., indicator for, L. Friess.	426,414 426,314 426,481 426,143 426,361 426,347 426,321 426,257	Lamp holder, incandescent electric, P. H. Klein, Jr  Lamp hood and support, electric, E. P. Warner  Lamp, incandescent electric, J. W. Packard  Land roller, Horey & Marsh  Lantern, combined platform and signal, M. Morton  Latch, W. H. Stinson  Latch, W. H. Stinson  Leather glazing machine, G. V. Anderson  Lemon cutter and squeezer, S. T. Jull  Life at sea, pillow or bolster for saving, D. Taylor	426,189 426,055 426,055 426,018 426,041 426,880 426,311 426,225 426,188 426,081	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw Sawmill attachment, E. P. Armstrong Screen, J. W. Boughton Screw cutting die head, J. A. Becher Screwdriver, ratchet, R. C. Ellrich Screw nail, S. E. Groff Screw, wire, L. W. Merriam Seal lock, R. M. Sully	426,404 426,357 426,232 426,228 425,988 426,008 426,294 426,220
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr  Doors, device for opening and closing, E. H. Hemenway	426,414 426,314 426,381 426,361 426,361 426,367 426,321 426,257 426,345 5426,310	Lamp holder, incandescent electric, P. H. Klein, Jr.  Lamp hood and support, electric, E. P. Warner Lamp, incandescent electric, J. W. Packard Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton  Latch, W. H. Stinson.  Latch, W. H. Stinson.  Leather glazing machine, G. V. Anderson  Lemon cutter and squeezer, S. T. Jull.  Life at sea, pillow or bolster for saving, D. Taylor  Life-preserver, J. Christensen.  Lightning arrester. A. D. Spear	426,189 426,155 426,055 426,018 426,041 426,080 426,311 426,225 426,188 426,081 426,363 426,338	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw. Sawmill attachment, E. P. Armstrong. Screen, J. W. Boughton. Screw cutting die head, J. A. Becher. Screwdriver, ratchet, B. C. Ellrich. Screw nail, S. E. Groff. Screw, wire, L. W. Merriam. Seal lock, R. M. Sully. Seat. See Car seat. Water closet seat. Separator. See Cream separator. Tooth separator. Sewing machine, H. H. Fefel.	426,494 426,357 426,232 426,228 425,988 426,008 426,294 426,220 426,256
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr.  Doors, device for opening and closing, E. H.  Hemenway.  Drawbar spring pocket, C. T. Schoen.  Drier. See Clothes drier.  Drier for humid materials. Buttner & Meyer.  Drilling machine, D. E. & L. E. Whiton.  Drying machine, Proctor & Knowles.	426,414 426,314 426,481 426,481 426,361 426,361 426,347 426,521 426,257 426,345 9426,110 426,281	Lamp holder, incandescent electric, P. H. Klein, Jr.  Lamp hood and support, electric, E. P. Warner  Lamp, incandescent electric, J. W. Packard  Land roller, Horey & Marsh.  Lantern, combined platform and signal, M. Morton  Latch, W. H. Stinson  Latch, W. H. Stinson  Lathes, adjustable tool holder for, J. H. Parker  Leather glazing machine, G. V. Anderson  Lemon cutter and squeezer, S. T. Jull.  Life at sea, pillow or bolster for saving, D. Taylor  Life-preserver, J. Christensen	426,189 426,155 426,055 426,018 426,041 426,080 426,311 426,225 426,188 426,081 426,363 426,338	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw Sawmill attachment, E. P. Armstrong. Screen, J. W. Boughton. Screw cutting die head, J. A. Becher Screwdriver, ratchet, R. C. Ellrich Screw nail, S. E. Groff. Screw, wire, L. W. Merriam Seal lock, R. M. Sully. Seat. See Car seat. Water closet seat. Separator. See Cream separator. Tooth separator. Sewing machine, H. H. Fefel. Sewing machine, E. Woodward. Sewing machines, butten holder for button, J.	426,494 426,357 426,232 426,228 425,988 426,008 426,294 426,220 426,256 426,159
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr	426,414 426,314 426,481 426,143 426,347 426,321 426,257 426,345 426,345 426,281	Lamp holder, incandescent electric, P. H. Klein, Jr.  Lamp hood and support, electric, E. P. Warner Lamp, incandescent electric, J. W. Packard Land roller, Horey & Marsh. Lantern, combined platform and signal, M. Morton  Latch, W. H. Stinson.  Latch, W. H. Stinson.  Leather glazing machine, G. V. Anderson Lemon cutter and squeezer, S. T. Jull.  Life at sea, pillow or bolster for saving, D. Taylor Life-preserver, J. Christensen.  Lightning arrester, A. D. Spear.  Lock, See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock.  Lock, W Hover.	426,189 426,155 426,055 426,018 426,041 426,480 426,311 426,225 426,188 426,081 426,363 426,338 426,338	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw. Sawmill attachment, E. P. Armstrong. Screen, J. W. Boughton. Screw cutting die head, J. A. Becher. Screwdriver, ratchet, B. C. Ellrich. Screw nail, S. E. Groff. Screw, wire, L. W. Merriam. Seal lock, R. M. Sully. Seat. See Car seat. Water closet seat. Separator. See Cream separator. Tooth separator. Sewing machine, H. H. Fefel. Sewing machine, E. Woodward. Sewing machines, butten holder for button, J. Mathison.	426,494 426,357 426,232 426,228 425,988 426,098 426,294 426,220 426,256 426,159 426,293
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr.  Doors, device for opening and closing, E. H.  Hemenway.  Drawbar spring pocket, C. T. Schoen.  Drier. See Clothes drier.  Drier for humid materials. Buttner & Meyer.  Drilling machine, D. E. & L. E. Whiton.  Drying machine, Proctor & Knowles.  Dumbwaiters, etc., indicator for, L. Friess.  Dye, red, A. Weinberg.  Dynamo safety device, E. P. Clark.  Leggs, device for opening hot boiled, G. W. King.  Electric cables, apparatus for hauling through, J.  F. Munsie.  Electric conductors, duct for, J. F. Munsle,	426,414 426,314 426,481 426,143 426,361 426,321 426,321 426,257 426,345 426,110 426,281 426,196	Lamp holder, incandescent electric, P. H. Klein, Jr  Lamp hood and support, electric, E. P. Warner  Lamp, incandescent electric, J. W. Packard  Land roller, Horey & Marsh  Lantern, combined platform and signal, M. Morton  Latch, W. H. Stinson  Latch, W. H. Stinson  Lether glazing machine, G. V. Anderson  Leemon cutter and squeezer, S. T. Jull  Life at sea, pillow or bolster for saving, D. Taylor  Life-preserver, J. Christensen  Lightning arrester, A. D. Spear  Lock. See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock.	426,189 426,155 426,055 426,018 426,041 426,280 426,215 426,285 426,283 426,363 426,363 426,373 426,273 426,079	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw. Sawmill attachment, E. P. Armstrong. Screen, J. W. Boughton. Screw cutting die head, J. A. Becher. Screwdriver, ratchet, R. C. Ellrich. Screw nail, S. E. Groff. Screw, wire, L. W. Merriam. Seal lock, R. M. Sully. Seat. See Car seat. Water closet seat. Separator. See Cream separator. Tooth separator. Sewing machine, H. H. Fefel. Sewing machine, E. Woodward. Sewing machines, button holder for button, J. Mathison. Sewing machines, trimming attachment for looped fabric, G. Cooper.	426,494 426,357 426,232 426,228 425,988 426,098 426,294 426,220 426,256 426,256 426,298
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr	426,414 426,314 426,481 426,143 426,361 426,361 426,321 426,257 426,196 426,196 426,196 426,205	Lamp holder, incandescent electric, P. H. Klein, Jr.  Lamp hood and support, electric, E. P. Warner.  Lamp, incandescent electric, J. W. Packard.  Land roller, Horey & Marsh.  Lantern, combined platform and signal, M. Morton.  Latch, W. H. Stinson.  Latch, W. H. Stinson.  Lemon cutter and squeezer, S. T. Jull  Life at sea, pillow or bolster for saving, D. Taylor  Life preserver, J. Christensen.  Lightning arrester, A. D. Spear.  Lock. See Combination lock. Gun lock. Indicator lock. Nutlock. Seal lock.  Lock, F. G. Stark.  Locomotives, stand pipe for supplying water to,  G. B. Jacksen.	426,189 426,155 426,055 426,018 426,041 426,280 426,311 426,225 426,188 426,081 426,363 426,363 426,373 426,079	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw. Sawmill attachment, E. P. Armstrong. Screen, J. W. Boughton. Screw cutting die head, J. A. Becher. Screwdriver, ratchet, R. C. Ellrich. Screw, mire, L. W. Merriam. Seal lock, R. M. Sully. Seat. See Car seat. Water closet seat. Separator. See Cream separator. Tooth separator. Sewing machine, H. H. Fefel. Sewing machine, E. Woodward. Sewing machines, butten holder for button, J. Mathison. Sewing machines, trimming attachment for looped fabric, G. Cooper. Shears. See Tinner's shears.	426,494 426,357 426,232 426,228 425,988 426,008 426,294 426,220 426,256 426,293 426,293
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr.  Doors, device for opening and closing, E. H. Hemenway.  Drawbar spring pocket, C. T. Schoen.  Drier. See Clothes drier.  Drier for humid materials. Buttner & Meyer.  Drilling machine, D. E. & L. E. Whiton.  Drying machine, Proctor & Knowles.  Dumbwaiters, etc., indicator for, L. Friess.  Dye, red, A. Weinberg.  Dynamo safety device, E. P. Clark.  Eggs, device for opening hot boiled, G. W. King.  Electric cables, apparatus for hauling through, J. F. Munsie.  Electric conductors, duct for, J. F. Munsie,  426,199,  Electric machine, dynamo, Wightman & Thomson.  Electric motor, Davis & Scott, Jr.	426,414 426,314 426,481 426,143 426,361 426,361 426,37 426,257 426,45 426,45 426,45 426,46 426,261 426,205	Lamp holder, incandescent electric, P. H. Klein, Jr.  Lamp hood and support, electric, E. P. Warner  Lamp, incandescent electric, J. W. Packard  Land roller, Horey & Marsh.  Lantern, combined platform and signal, M. Morton.  Latch, W. H. Stinson.  Latch, W. H. Stinson.  Leather glazing machine, G. V. Anderson.  Lemon cutter and squeezer, S. T. Jull.  Life at sea, pillow or bolster for saving, D. Taylor  Life-preserver, J. Christensen.  Lightning arrester, A. D. Spear.  Lock. See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock.  Lock, W. Hover.  Lock, F. G. Stark.  Locomotives, stand pipe for supplying water to, G. B. Jacksen.  Looms, wire operating device for pile fabric, W.  Kothe.	426,189 426,155 426,055 426,018 426,041 426,480 426,311 426,225 426,188 426,283 426,338 426,338 426,273 426,479 426,124	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw. Sawmill attachment, E. P. Armstrong. Screen, J. W. Boughton. Screw cutting die head, J. A. Becher. Screwdriver, ratchet, R. C. Ellrich. Screw nail, S. E. Groff. Screw, wire, L. W. Merriam. Seal lock, R. M. Sully. Seat. See Car seat. Water closet seat. Separator. See Cream separator. Tooth separator. Sewing machine, H. H. Fefel. Sewing machine, E. Woodward. Sewing machines, butten holder for button, J. Mathison. Sewing machines, trimming attachment for looped fabric, G. Cooper. Shears. See Tinner's shears. Sheet metal box, C. J. Hauck, Jr. Sheet metal, embossing, A. Langerfeld.	426,494 426,357 426,232 426,232 426,298 426,008 426,294 426,220 426,256 426,159 426,244 426,366 426,366 426,132
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr.  Doors, device for opening and closing, E. H. Hemenway.  Driers See Clothes drier.  Drier for humid materials. Buttner & Meyer.  Drilling machine, D. E. & L. E. Whiton.  Drying machine, Proctor & Knowles.  Dumbwaiters, etc., indicator for, L. Friess.  Dye, red, A. Weinberg.  Dynamo safety device, E. P. Clark.  426,108tc  Eggs, device for opening hot boiled, G. W. King.  Electric cables, apparatus for hauling through, J  F. Munsie.  Electric conductors, duct for, J. F. Munsie,  Electric machine, dynamo, Wightman & Thomson.	426,414 426,314 426,481 426,481 426,361 426,361 426,257 426,345 426,251 426,281 426,281 426,281 426,205	Lamp holder, incandescent electric, P. H. Klein, Jr.  Lamp hood and support, electric, E. P. Warner.  Lamp, incandescent electric, J. W. Packard.  Land roller, Horey & Marsh  Lantern, combined platform and signal, M. Morton.  Latch, W. H. Stinson.  Lathes, adjustable tool holder for, J. H. Parker.  Leather glazing machine, G. V. Anderson.  Lemon cutter and squeezer, S. T. Jull  Life at sea, pillow or bolster for saving, D. Taylor  Life-preserver, J. Christensen.  Lightning arrester, A. D. Spear.  Lock. See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock.  Lock, F. G. Stark.  Locomotives, stand pipe for supplying water to,  G. B. Jacksen.  Looms, wire operating device for pile fabric, W. Kothe.  Lubricator, T. J. Hart.	426,189 426,155 426,055 426,018 426,041 426,080 426,311 426,225 426,188 426,283 426,383 426,377 426,124 426,273 426,079 426,124	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw. Sawmill attachment, E. P. Armstrong. Screen, J. W. Boughton. Screw cutting die head, J. A. Becher. Screwdriver, ratchet, R. C. Ellrich. Screw nail, S. E. Groff. Screw, wire, L. W. Merriam. Seal lock, R. M. Sully. Seat. See Car seat. Water closet seat. Separator. See Cream separator. Tooth separator. Sewing machine, H. H. Fefel. Sewing machine, E. Woodward. Sewing machines, butten holder for button, J. Mathison. Sewing machines, trimming attachment for looped fabric, G. Cooper. Shears. See Tinner's shears. Sheet metal box, C. J. Hauck, Jr.	426,494 426,357 426,232 426,228 425,988 426,095 426,220 426,220 426,293 426,293 426,244 426,352 426,352
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr.  Doors, device for opening and closing, E. H. Hemenway.  Drawbar spring pocket, C. T. Schoen	426,414 426,314 426,481 426,481 426,361 426,361 426,37 426,31 426,257 426,345 426,196 426,205 426,205 426,348 425,991 426,380 426,380 426,380 426,196	Lamp holder, incandescent electric, P. H. Klein, Jr.  Lamp hood and support, electric, E. P. Warner.  Lamp, incandescent electric, J. W. Packard  Land roller, Horey & Marsh  Lantern, combined platform and signal, M. Morton.  Latch, W. H. Stinson.  Lathes, adjustable tool holder for, J. H. Parker.  Leather glazing machine, G. V. Anderson.  Lemon cutter and squeezer, S. T. Jull  Life at sea, pillow or bolster for saving, D. Taylor  Life-preserver, J. Christensen.  Lightning arrester, A. D. Spear.  Lock, See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock.  Lock, W. Hover.  Lock, F. G. Stark.  Locomotives, stand pipe for supplying water to,  G. B. Jacksen.  Looms, wire operating device for pile fabric, W.  Kothe.  Lubricator, T. J. Hart.  Manhole for underground electric conduits, J. F.  Munsie.	426,189 426,155 426,055 426,018 426,041 426,280 426,231 426,283 426,283 426,338 426,273 426,273 426,273 426,273 426,273 426,273 426,273 426,273 426,273 426,273 426,273 426,273 426,273 426,273 426,284 426,377	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw. Sawmill attachment, E. P. Armstrong. Screen, J. W. Boughton. Screw cutting die head, J. A. Becher. Screwdriver, ratchet, R. C. Ellrich. Screw nail, S. E. Groff. Screw, wire, L. W. Merriam. Seal lock, R. M. Sully. Seat. See Car seat. Water closet seat. Separator. See Cream separator. Tooth separator. Sewing machine, H. H. Fefel. Sewing machine, E. Woodward. Sewing machines, butten holder for button, J. Mathison. Sewing machines, trimming attachment for looped fabric, G. Cooper. Shears. See Tinner's shears. Sheet metal box, C. J. Hauck, Jr. Sheet metal, embossing, A. Langerfeld. Sheet metal folding machine, S. F. Woodworth. Ships or vessels, apparatus for raising sunken, M. Garland.	426,404 426,357 426,232 426,232 426,238 425,988 426,005 426,220 426,220 426,259 426,244 426,244 426,366 426,352 426,352
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr	426,414 426,314 426,481 426,481 426,347 426,347 426,257 426,345 426,210 426,205 426,196 426,205 426,409 426,348 426,348 426,348 426,348 426,348 426,348 426,348 426,347 426,348	Lamp holder, incandescent electric, P. H. Klein, Jr.  Lamp hood and support, electric, E. P. Warner.  Lamp, incandescent electric, J. W. Packard  Land roller, Horey & Marsh.  Lantern, combined platform and signal, M. Morton.  Latch, W. H. Stinson.  Latch, W. H. Stinson.  Leather glazing machine, G. V. Anderson.  Lemon cutter and squeezer, S. T. Jull.  Life at sea, pillow or bolster for saving, D. Taylor Life-preserver, J. Christensen.  Lightning arrester, A. D. Spear.  Lock, See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock.  Lock, F. G. Stark.  Locomotives, stand pipe for supplying water to, G. B. Jacksøn.  Looms, wire operating device for pile fabric, W. Kothe  Lubricator, T. J. Hart.  Manhole for underground electric conduits, J. F.	426,189 426,155 426,055 426,018 426,091 426,189 426,218 426,225 426,188 426,081 426,383 426,338 426,273 426,273 426,124 426,284 426,284 426,284 426,284 426,284 426,206 426,029	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw. Sawmill attachment, E. P. Armstrong. Screen, J. W. Boughton. Screw cutting die head, J. A. Becher. Screwdriver, ratchet, R. C. Ellrich. Screw nail, S. E. Groff. Screw, wire, L. W. Merriam. Seal lock, R. M. Sully. Seat. See Car seat. Water closet seat. Separator. See Cream separator. Tooth separator. Sewing machine, H. H. Fefel. Sewing machine, E. Woodward. Sewing machines, butten holder for button, J. Mathison. Sewing machines, trimming attachment for looped fabric, G. Cooper. Shears. See Tinner's shears. Sheet metal box, C. J. Hauck, Jr. Sheet metal, embossing, A. Langerfeld. Sheet metal folding machine, S. F. Woodworth. Ships or vessels, apparatus for raising sunken, M. Garland. Shirt, C. L. Christmann. Shoe shanks, machine for making, Sprague &	426,494 426,332 426,323 426,228 425,988 425,988 426,294 426,220 426,256 426,159 426,244 426,346 426,332 426,332 426,332 426,332 426,353
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr.  Doors, device for opening and closing, E. H. Hemenway.  Drawbar spring pocket, C. T. Schoen	426,414 426,314 426,481 426,361 426,361 426,37 426,321 426,257 426,345 426,196 426,205 426,100 426,205 426,205 426,348 425,991 426,380 426,380 426,127 426,247	Lamp holder, incandescent electric, P. H. Klein, Jr.  Lamp hood and support, electric, E. P. Warner.  Lamp, incandescent electric, J. W. Packard  Land roller, Horey & Marsh.  Lantern, combined platform and signal, M. Morton.  Latch, W. H. Stinson.  Latch, W. H. Stinson.  Lathes, adjustable tool holder for, J. H. Parker.  Leather glazing machine, G. V. Anderson.  Lemon cutter and squeezer, S. T. Jull.  Life at sea, pillow or bolster for saving, D. Taylor  Life-preserver, J. Christensen.  Lightning arrester, A. D. Spear.  Lock, See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock.  Lock, W. Hover.  Lock, F. G. Stark.  Locomotives, stand pipe for supplying water to,  G. B. Jacksen.  Looms, wire operating device for pile fabric, W. Kothe.  Lubricator, T. J. Hart.  Manhole for underground electric conduits, J. F. Munsie.  Marking instrument, B. Arnold  Match and mode of making, Y. Gonzalez-Gomez.	426,189 426,155 426,055 426,018 426,081 426,281 426,282 426,183 426,363 426,363 426,363 426,273 426,079 426,124 426,284 426,377 426,029 426,029 426,029 426,009 426,009 426,009 426,009 426,009 426,009 426,009 426,009 426,009 426,009 426,009	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw Sawmill attachment, E. P. Armstrong Screen, J. W. Boughton Screw cutting die head, J. A. Becher Screwdriver, ratchet, R. C. Ellrich Screw nail, S. E. Groff Screw, wire, L. W. Merriam Seal lock, R. M. Sully Seat. See Car seat. Water closet seat. Separator. See Cream separator. Tooth separator. Sewing machine, H. H. Fefel Sewing machine, E. Woodward Sewing machines, butten holder for button, J. Mathison. Sewing machines, trimming attachment for looped fabric, G. Cooper. Shears. See Tinner's shears. Sheet metal box, C. J. Hauck, Jr. Sheet metal, embossing, A. Langerfeld. Sheet metal folding machine, S. F. Woodworth. Ships or vessels, apparatus for raising sunken, M. Garland. Shirt, C. L. Christmann Shoe shanks, machine for making, Sprague & Fowler.	426,49.4 426,32.2 426,22.2 426,02.8 426,09.6 426,09.6 426,29.4 426,29.6 426,29.3 426,29.3 426,29.3 426,29.3 426,29.3 426,39.6 426,39.6 426,39.6 426,39.6 426,39.6 426,39.6
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr.  Doors, device for opening and closing, E. H. Hemenway.  Drawbar spring pocket, C. T. Schoen.  Drier. See Clothes drier.  Drier for humid materials. Buttner & Meyer  Drilling machine, P. E. & L. E. Whiton.  Drying machine, Proctor & Knowles.  Dumbwaiters, etc., indicator for, L. Friess.  Dye, red, A. Weinberg  Dynamo safety device, E. P. Clark	426,414 426,341 426,481 426,481 426,361 426,321 426,321 426,321 426,257 426,310 426,261 426,205 426,110 426,205 426,409 426,205 426,404 426,247 426,348 426,348 426,348 426,348 426,348 426,348 426,348 426,348 426,348 426,440 426,440 426,441 426,440	Lamp holder, incandescent electric, P. H. Klein, Jr.  Lamp hood and support, electric, E. P. Warner.  Lamp, incandescent electric, J. W. Packard.  Land roller, Horey & Marsh  Lantern, combined platform and signal, M. Morton.  Latch, W. H. Stinson.  Latch, W. H. Stinson.  Leather glazing machine, G. V. Anderson.  Lemon cutter and squeezer, S. T. Jull.  Life at sea, pillow or bolster for saving, D. Taylor Life-preserver, J. Christensen.  Lightning arrester, A. D. Spear.  Lock, See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock.  Lock, F. G. Stark.  Locomotives, stand pipe for supplying water to, G. B. Jackson.  Looms, wire operating device for pile fabric, W. Kothe.  Lubricator, T. J. Hart.  Manhole for underground electric conduits, J. F. Munsie.  Manometer, registering, Lusuardi & Falco.  Marking instrument, B. Arnold  Match and mode of making, Y. Gonzalez-Gomez.  Measurements according to one system into another system, instrument for transferring.	426,189 426,155 426,055 426,018 426,490 426,311 426,225 426,188 426,081 426,233 426,338 426,273 426,273 426,274 426,224 426,224 426,224 426,224 426,206 426,206 426,091 426,007	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw. Sawmill attachment, E. P. Armstrong. Screen, J. W. Boughton. Screw cutting die head, J. A. Becher. Screwdriver, ratchet, R. C. Ellrich. Screw nail, S. E. Groff. Screw, wire, L. W. Merriam. Seal lock, R. M. Sully. Seat. See Car seat. Water closet seat. Separator. See Cream separator. Tooth separator. Sewing machine. H. H. Fefel. Sewing machine, E. Woodward. Sewing machines, butten holder for button, J. Mathison. Sewing machines, trimming attachment for looped fabric, G. Cooper. Shears. See Tinner's shears. Sheet metal box, C. J. Hauck, Jr. Sheet metal, embossing, A. Langerfeld. Sheet metal folding machine, S. F. Woodworth. Ships or vessels, apparatus for raising sunken, M. Garland. Shore shanks, machine for making, Sprague & Fowler. Shutter fastener and bower, W. J. Scott Sight, J. J. Scholfield.	426,494 426,332 426,323 426,928 425,988 426,008 426,220 426,220 426,233 426,233 426,336 426,332 426,352 426,335
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr.  Doors, device for opening and closing, E. H. Hemenway.  Drawbar spring pocket, C. T. Schoen.  Drier. See Clothes drier.  Drier for humid materials. Buttner & Meyer.  Drilling machine, D. E. & L. E. Whiton.  Drying machine, Proctor & Knowles.  Dumbwaiters, etc., indicator for, L. Friess.  Dye, red, A. Weinberg.  Dynamo safety device, E. P. Clark.  426,108tc  Eggs, device for opening hot boiled, G. W. King.  Electric cables, apparatus for hauling through, J. F. Munsie.  Electric conductors, duct for, J. F. Munsie,  Electric machine, dynamo, Wightman & Thomson.  Electric motor, Davis & Scott, Jr.  Electric switch, J. P. Norton.  Electrical distribution, system of, C. J. Knitner.  Electro-magnetic instrument, P. B. Delaney.  Electrocal arm, A. L. Brice.  Elevator safety device, S. G. Bennett.	426,414 426,314 426,481 426,481 426,361 426,361 426,321 426,257 426,345 426,196 426,205 426,100 426,205 426,205 426,205 426,205 426,380 426,380 426,380 426,47 426,347 426,348 426,447 426,448 426,448 426,448 426,418 426,418	Lamp holder, incandescent electric, P. H. Klein, Jr  Lamp hood and support, electric, E. P. Warner  Lamp, incandescent electric, J. W. Packard  Land roller, Horey & Marsh  Lantern, combined platform and signal, M. Morton  Latch, W. H. Stinson  Latch, W. H. Stinson  Leather glazing machine, G. V. Anderson  Lemon cutter and squeezer, S. T. Jull  Life at sea, pillow or bolster for saving, D. Taylor Life-preserver, J. Christensen  Lightning arrester, A. D. Spear  Lock, See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock.  Lock, W. Hover  Lock, F. G. Stark  Locomotives, stand pipe for supplying water to, G. B. Jucksen  Looms, wire operating device for pile fabric, W. Kothe  Lubricator, T. J. Hart  Manhole for underground electric conduits, J. F. Munsie  Marking instrument, B. Arnold  Marking instrument, B. Arnold  Match and mode of making, Y. Gonzalez-Gomez  Measurements according to one system into another system, instrument for transferring, H. Hagemann	426,189 426,155 426,055 426,018 426,081 426,281 426,282 426,183 426,283 426,273 426,273 426,079 426,124 426,284 426,023 426,0023 426,007 426,007	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw. Sawmill attachment, E. P. Armstrong. Screen, J. W. Boughton. Screw cutting die head, J. A. Becher. Screwdriver, ratchet, R. C. Ellrich. Screw nail, S. E. Groff. Screw, wire, L. W. Merriam. Seal lock, R. M. Sully. Seat. See Car seat. Water closet seat. Separator. See Cream separator. Tooth separator. Sewing machine. H. H. Fefel. Sewing machine, E. Woodward. Sewing machines, butten holder for button, J. Mathison. Sewing machines, trimming attachment for looped fabric, G. Cooper. Shears. See Tinner's shears. Sheet metal box, C. J. Hauck, Jr. Sheet metal, embossing, A. Langerfeld. Sheet metal folding machine, S. F. Woodworth. Ships or vessels, apparatus for raising sunken, M. Garland. Shore shanks, machine for making, Sprague & Fowler. Shutter fastener and bower, W. J. Scott Sight, J. J. Scholfield.	426,494 426,323 426,228 426,928 425,988 426,294 426,294 426,293 426,293 426,293 426,293 426,393 426,334 426,334 426,334 426,334 426,334 426,334 426,334
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr.  Doors, device for opening and closing, E. H. Hemenway.  Drawbar spring pocket, C. T. Schoen.  Drier. See Clothes drier.  Drier for humid materials. Buttner & Meyer  Drilling machine, D. E. & L. E. Whiton.  Drying machine, Proctor & Knowles.  Dumbwaiters, etc., indicator for, L. Friess.  Dye, red, A. Weinberg  Dynamo safety device, E. P. Clark	426,414 426,481 426,481 426,481 426,361 426,37 426,37 426,37 426,257 426,316 426,281 426,205 426,205 426,499 426,205 426,348 426,391 426,391 426,391 426,391 426,388 426,404 426,418 426,418 426,418 426,418 426,418 426,418 426,418 426,418 426,418	Lamp holder, incandescent electric, P. H. Klein, Jr.  Lamp hood and support, electric, E. P. Warner.  Lamp, incandescent electric, J. W. Packard.  Land roller, Horey & Marsh  Lantern, combined platform and signal, M. Morton.  Latch, W. H. Stinson.  Latch, W. H. Stinson.  Lathes, adjustable tool holder for, J. H. Parker.  Leather glazing machine, G. V. Anderson.  Lemon cutter and squeezer, S. T. Jull  Life at sea, pillow or bolster for saving, D. Taylor  Life-preserver, J. Christensen.  Lightning arrester, A. D. Spear.  Lock. See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock.  Lock, F. G. Stark  Locomotives, stand pipe for supplying water to, G. B. Jacksen.  Looms, wire operating device for pile fabric, W.  Kothe.  Lubricator, T. J. Hart.  Manhole for underground electric conduits, J. F.  Munsie.  Manometer, registering, Lusuardi & Falco.  Marking instrument, B. Arnold  Match and mode of making, Y. Gonzalez-Gomez.  Measurements according to one system into  another system, instrument for transferring, H. Hagemann.  Measuring device, lumber, T. Newnham.	426,189 426,155 426,055 426,018 426,080 426,311 426,225 426,188 426,083 426,383 426,383 426,273 426,273 426,273 426,274 426,284 426,284 426,284 426,294 426,010 426,010 426,010 426,010 426,010 426,010 426,010 426,010 426,010	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw. Sawmill attachment, E. P. Armstrong. Screen, J. W. Boughton. Screw cutting die head, J. A. Becher. Screwdriver, ratchet, R. C. Ellrich. Screw nail, S. E. Groff. Screw, wire, L. W. Merriam. Seal lock, R. M. Sully. Seat. See Car seat. Water closet seat. Separator. See Cream separator. Tooth separator. Sewing machine, H. H. Fefel. Sewing machine, E. Woodward. Sewing machines, butten holder for button, J. Mathison. Sewing machines, trimming attachment for looped fabric, G. Cooper. Shears. See Tinner's shears. Sheet metal box, C. J. Hauck, Jr. Sheet metal, embossing, A. Langerfeld. Sheet metal folding machine, S. F. Woodworth. Ships or vessels, apparatus for raising sunken, M. Garland. Shirt, C. L. Christmann Shoe shanks, machine for making, Sprague & Fowler. Shutter fastener and bower, W. J. Scott. Sight, J. J. Scholfield. Signal. See Railway signal. Signaling apparatus for hotels, electric, J. J. Miller.	426,494 426,332 426,228 425,988 426,008 426,220 426,220 426,259 426,293 426,244 426,376 426,376 426,334 426,334 426,334 426,334 426,334 426,334 426,334 426,334
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr.  Doors, device for opening and closing, E. H. Hemenway.  Drawbar spring pocket, C. T. Schoen.  Drier. See Clothes drier.  Drier for humid materials. Buttner & Meyer.  Drilling machine, D. E. & L. E. Whiton.  Drying machine, Proctor & Knowles.  Dumbwaiters, etc., indicator for, L. Friess.  Dye, red, A. Weinberg.  Dynamo safety device, E. P. Clark.  426,108tc  Eggs, device for opening hot boiled, G. W. King.  Electric cables, apparatus for hauling through, J. F. Munsie.  Electric conductors, duct for, J. F. Munsie,  Electric machine, dynamo, Wightman & Thomson.  Electric motor, Davis & Scott, Jr.  Electric switch, J. P. Norton.  Electrical distribution, system of, C. J. Knitner.  Electric magnetic instrument, P. B. Delaney.  Electronagnetic instrument, P. B. Delaney.  Elevator alarm, A. L. Brice.  Elevator for letters, etc., C. E. Reid.  Elevator safety device, S. G. Bennett  Ellipsograph, A. W. Leighton.  Embossing machine, thimble, J. Browning.  Emgine. See Compound engine. Dental engine	426,414 426,341 426,481 426,481 426,361 426,361 426,37 426,321 426,257 426,345 426,196 426,205 426,205 426,205 426,205 426,380 426,380 426,247 426,380 426,196 426,447 426,488 426,196 426,104 426,447 426,488 426,100 426,288 426,100 426,288 426,100	Lamp holder, incandescent electric, P. H. Klein, Jr.  Lamp hood and support, electric, E. P. Warner.  Lamp, incandescent electric, J. W. Packard.  Land roller, Horey & Marsh  Lantern, combined platform and signal, M. Morton.  Latch, W. H. Stinson.  Latch, W. H. Stinson.  Latch, adjustable tool holder for, J. H. Parker.  Leather glazing machine, G. V. Anderson.  Lemon cutter and squeezer, S. T. Jull.  Life at sea, pillow or bolster for saving, D. Taylor Infe-preserver, J. Christensen.  Lightning arrester, A. D. Spear.  Lock, See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock.  Lock, W. Hover.  Lock, F. G. Stark.  Locomotives, stand pipe for supplying water to, G. B. Jucksen.  Looms, wire operating device for pile fabric, W. Kothe.  Lubricator, T. J. Hart.  Manhole for underground electric conduits, J. F. Munsie.  Manometer, registering, Lusuardi & Falco.  Marking instrument, B. Arnold  Match and mode of making, Y. Gonzalez-Gomez.  Measurements according to one system into another system, instrument for transferring, H. Hagemann  Measuring device, lumber, T. Newnham.  Meat cutter, S. T. Juli.  Mechanical movement, J. A. Watson.	426,189 426,155 426,055 426,018 426,081 426,281 426,283 426,283 426,338 426,273 426,273 426,273 426,274 426,284 426,284 426,029 426,009 426,009 426,000 426,305 426,305 426,313	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw. Sawmill attachment, E. P. Armstrong. Screen, J. W. Boughton Screw cutting die head, J. A. Becher. Screwdriver, ratchet, R. C. Ellrich. Screw nail, S. E. Groff Screw, wire, L. W. Merriam. Seal lock, R. M. Sully. Seat. See Car seat. Water closet seat. Separator. See Cream separator. Tooth separator. Sewing machine, H. H. Fefel Sewing machines, butten holder for button, J. Mathison Sewing machines, trimming attachment for looped fabric, G. Cooper Sheats. See Tinner's shears. Sheet metal box, C. J. Hauck, Jr. Sheet metal box, C. J. Hauck, Jr. Sheet metal folding machine, S. F. Woodworth. Ships or vessels, apparatus for raising sunken, M. Garland Shirt, C. L. Christmann. Shoe shanks, machine for making, Sprague & Fowler. Shutter fastener and bower, W. J. Scott Signal. See Railway signal. Signal See Railway signal.	426,494 426,332 426,223 426,228 425,988 426,294 426,220 426,259 426,293 426,244 426,376 426,332 426,332 426,333 426,334 426,334 426,334 426,334 426,334 426,334 426,334 426,334
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr	426,414 426,314 426,481 426,481 426,361 426,361 426,321 426,257 426,345 426,196 426,281 426,196 426,205 426,196 426,205 426,104 426,205 426,104 426,104 426,104 426,104 426,104 426,106	Lamp holder, incandescent electric, P. H. Klein, Jr.  Lamp hood and support, electric, E. P. Warner.  Lamp, incandescent electric, J. W. Packard.  Land roller, Horey & Marsh  Lantern, combined platform and signal, M. Morton.  Latch, W. H. Stinson.  Lathes, adjustable tool holder for, J. H. Parker.  Leather glazing machine, G. V. Anderson.  Lemon cutter and squeezer, S. T. Jull  Life at sea, pillow or bolster for saving, D. Taylor  Life-preserver, J. Christensen.  Lightning arrester, A. D. Spear.  Lock. See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock.  Lock, F. G. Stark.  Locomotives, stand pipe for supplying water to, G. B. Jacksen.  Looms, wire operating device for pile fabric, W. Kothe.  Lubricator, T. J. Hart.  Manhole for underground electric conduits, J. F. Munsie.  Manometer, registering, Lusuardi & Falco.  Marking instrument, B. Arnold  Match and mode of making, Y. Gonzalez-Gomez.  Measurements according to one system into another system, instrument for transferring, H. Hagemann.  Measuring device, lumber, T. Newnham.  Meat cutter, S. T. Juli.  Mechanical movement, J. A. Watson.  Metal wheel, M. De Mars.  Metallic tube, C. L. Betts.	426,189 426,155 426,055 426,018 426,080 426,311 426,225 426,188 426,081 426,363 426,383 426,383 426,273 426,273 426,274 426,284 426,284 426,284 426,294 426,010 426,305 426,413 426,305 426,313 426,333 426,333 426,333 426,333 426,333 426,333 426,334	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw. Sawmill attachment, E. P. Armstrong. Screen, J. W. Boughton Screw cutting die head, J. A. Becher. Screwdriver, ratchet, R. C. Ellrich. Screw nail, S. E. Groff. Screw, wire, L. W. Merriam. Seal lock, R. M. Sully. Seat. See Car seat. Water closet seat. Separator. See Cream separator. Tooth separator. Sewing machine, H. H. Fefel. Sewing machine, E. Woodward. Sewing machines, butten holder for button, J. Mathison Sewing machines, trimming attachment for looped fabric, G. Cooper. Shears. See Tinner's shears. Sheet metal box, C. J. Hauck, Jr. Sheet metal, embossing, A. Langerfeld. Sheet metal folding machine, S. F. Woodworth. Ships or vessels, apparatus for raising sunken, M. Garland. Shirt, C. L. Christmann. Shoe shanks, machine for making, Sprague & Fowler. Shutter fastener and bower, W. J. Scott. Signal. See Railway signal. Signaling apparatus for hotels, electric, J. J. Miller. Single acting engine, J. P. Tidwell. Skiving machine, upper, G. F. Bunn. Slate frame, D. Scrymgeour.	426,494 426,332 426,232 426,928 426,098 426,098 426,220 426,259 426,293 426,244 426,376 426,332 426,333 426,333 426,331 426,341 426,341 426,341 426,341 426,341 426,441 426,441 426,441
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr.  Doors, device for opening and closing, E. H. Hemenway.  Drawbar spring pocket, C. T. Schoen	426,414 426,341 426,481 426,481 426,361 426,37 426,321 426,257 426,345 426,196 426,205 426,100 426,205 426,100 426,205 426,348 426,391 426,391 426,391 426,347 426,347 426,347 426,347 426,348 426,347 426,347 426,347 426,347	Lamp holder, incandescent electric, P. H. Klein, Jr.  Lamp hood and support, electric, E. P. Warner.  Lamp, incandescent electric, J. W. Packard.  Land roller, Horey & Marsh  Lantern, combined platform and signal, M. Morton.  Latch, W. H. Stinson.  Lathes, adjustable tool holder for, J. H. Parker.  Leather glazing machine, G. V. Anderson.  Lemon cutter and squeezer, S. T. Jull  Life at sea, pillow or bolster for saving, D. Taylor  Life-preserver, J. Christensen.  Lightning arrester, A. D. Spear.  Lock. See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock.  Lock, W. Hover.  Lock, F. G. Stark.  Locomotives, stand pipe for supplying water to, G. B. Jacksen.  Looms, wire operating device for pile fabric, W. Kothe.  Lubricator, T. J. Hart.  Manhole for underground electric conduits, J. F. Munise.  March and mode of making, Y. Gonzalez-Gomez.  Measurements according to one system into another system, instrument for transferring, H. Hagemann.  Measuring device, lumber, T. Newnham.  Meat cutter, S. T. Juli.  Mechanical movement, J. A. Watson.  Metal wheel, M. De Mars.	426,189 426,055 426,055 426,018 426,480 426,215 426,188 426,284 426,233 426,338 426,273 426,273 426,274 426,224 426,224 426,020 426,206 426,091 426,007 426,305 426,307 426,30	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw Sawmill attachment, E. P. Armstrong Screen, J. W. Boughton Screw cutting die head, J. A. Becher Screwdriver, ratchet, R. C. Ellrich Screw nail, S. E. Groff Screw, wire, L. W. Merriam Seal lock, R. M. Sully Seat. See Car seat. Water closet seat. Separator. See Cream separator. Tooth separator. Sewing machine, H. H. Fefel Sewing machines, butten holder for button, J. Mathison. Sewing machines, trimming attachment for looped fabric, G. Cooper. Shears. See Tinner's shears. Sheet metal box, C. J. Hauck, Jr. Sheet metal folding machine, S. F. Woodworth. Ships or vessels, apparatus for raising sunken, M. Garland. Shirt, C. L. Christmann Shoe shanks, machine for making, Sprague & Fowler Sight, J. J. Scholfield. Signal. See Railway signal. Signaling apparatus for hotels, electric, J. J. Miller Miller Single acting engine, J. P. Tidwell Skiving machine, upper, G. F. Bunn Slate frame, D. Scrymgeour Smokehouse and meat safe, combined, J. M. Badgley.	426,494 426,332 426,223 426,298 426,294 426,290 426,293 426,293 426,293 426,244 426,36 426,332 426,352 426,334 426,334 426,334 426,334 426,346 426,441 426,441 426,441 426,441 426,441 426,441
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr.  Doors, device for opening and closing, E. H. Hemenway.  Drawbar spring pocket, C. T. Schoen.  Drier. See Clothes drier.  Drier for humid materials. Buttner & Meyer.  Drilling machine, D. E. & L. E. Whiton.  Drying machine, Proctor & Knowles.  Dumbwaiters, etc., indicator for, L. Friess.  Dye, red, A. Weinberg.  Dynamo safety device, E. P. Clark.  Electric cables, apparatus for hauling through, J. F. Munsie.  Electric conductors, duct for, J. F. Munsie,  Electric machine, dynamo, Wightman & Thomson.  Electric motor, Davis & Scott, Jr.  Electric witch, J. P. Norton.  Electric switch, J. P. Norton.  Electrical distribution, system of, C. J. Knitner.  Electrodes for secondary batteries, manufactur ing, L. Epstein.  Elevator safety device, S. G. Bennett.  Elevator safety device, S. G. Bennett.  Ellevator safety device, S. G. Bennett.  Ellepsograph, A. W. Leighton.  Embossing machine, thimble, J. Browning  Engine. See Compound engine. Dental engine Gas engine. Rotary engine. Single-acting engine.  Engrine driving gear, steam. J. Baird.  Envalope, coin, A. F. Rolfe et al.  Evaporating apparatus, C. C. Peck.	426,414 426,314 426,481 426,481 426,361 426,361 426,321 426,257 426,345 426,196 426,196 426,205 426,196 426,205 426,380 426,197 426,104 426,127 426,104 426,107 426,47 426,47 426,47 426,407 426,407 426,407 426,407	Lamp holder, incandescent electric, P. H. Klein, Jr.  Lamp hood and support, electric, E. P. Warner.  Lamp, incandescent electric, J. W. Packard.  Land roller, Horey & Marsh  Lantern, combined platform and signal, M. Morton.  Latch, W. H. Stinson.  Latch, W. H. Stinson.  Lathes, adjustable tool holder for, J. H. Parker.  Leather glazing machine, G. V. Anderson.  Lemon cutter and squeezer, S. T. Jull  Life at sea, pillow or bolster for saving, D. Taylor  Life-preserver, J. Christensen.  Lightning arrester, A. D. Spear.  Lock. See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock.  Lock, F. G. Stark.  Locomotives, stand pipe for supplying water to,  G. B. Jacksen.  Looms, wire operating device for pile fabric, W. Kothe.  Lubricator, T. J. Hart.  Manhole for underground electric conduits, J. F. Munsie.  Manometer, registering, Lusuardi & Falco.  Marking instrument, B. Arnold  Match and mode of making, Y. Gonzalez-Gomez.  Measurements according to one system into another system, instrument for transferring, H. Hagemann.  Measuring device, lumber, T. Newnham.  Meat cutter, S. T. Juli.  Mechanical movement, J. A. Watson.  Metal wheel, M. De Mars.  Metallic tube, C. L. Betts.  Metallic tube, C. L. Betts.  Metallic tube, C. F. Erb.  Mill appliance, McCleane & Faber, Jr.  Motor. See Car motor. Electric motor. Water	426,189 426,155 426,055 426,018 426,263 426,211 426,282 426,183 426,283 426,273 426,273 426,273 426,273 426,274 426,284 426,273 426,284 426,284 426,023 426,003 426,007 426,100 426,305 426,113 426,975 426,975 426,975 426,016	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw. Sawmill attachment, E. P. Armstrong. Screen, J. W. Boughton Screw cutting die head, J. A. Becher. Screwdriver, ratchet, R. C. Ellrich. Screw nail, S. E. Groff Screw, wire, L. W. Merriam. Seal lock, R. M. Sully. Seat. See Car seat. Water closet seat. Separator. See Cream separator. Tooth separator. Sewing machine, H. H. Fefel Sewing machines, button holder for button, J. Mathison Sewing machines, trimming attachment for looped fabric, G. Cooper. Shears. See Tinner's shears. Sheet metal box, C. J. Hauck, Jr. Sheet metal folding machine, S. F. Woodworth. Ships or vessels, apparatus for raising sunken, M. Garland Shirt, C. L. Christmann. Shoe shanks, machine for making, Sprague & Fowler. Shutter fastener and bower, W. J. Scott Signal. See Railway signal. Signaling apparatus for hotels, electric, J. J. Miller Single acting engine, J. P. Tidwell Skiving machine, upper, G. F. Munn Slate frame, D. Scrymgeour. Smokehouse and meat safe, combined, J. M. Badgley. Snow from railway tracks, apparatus for remov	426,494 426,332 426,222 426,988 426,094 426,220 426,220 426,256 426,159 426,293 426,244 426,376 426,332 426,352 426,352 426,352 426,352 426,351
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr.  Doors, device for opening and closing, E. H. Hemenway.  Drawbar spring pocket, C. T. Schoen.  Drier. See Clothes drier.  Drier for humid materials. Buttner & Meyer.  Drilling machine, D. E. & L. E. Whiton.  Dryling machine, Proctor & Knowles.  Dumbwaiters, etc., indicator for, L. Friess.  Dye, red, A. Weinberg.  Dynamo safety device, E. P. Clark.  426,108tc  Eggs, device for opening hot boiled, G. W. King.  Electric cables, apparatus for hauling through, J. F. Munsie.  Electric machine, dynamo, Wightman & Thomson.  Electric motor, Davis & Scott, Jr.  Electric witch, J. P. Norton.  Electrical distribution, system of, C. J. Knitner.  Electrics witch, J. P. Norton.  Electrics for letters, etc., C. E. Reid.  Elevator for letters, etc., C. E. Reid.  Elevator safety device, S. G. Bennett  Ellipsograph, A. W. Leighton.  Embossing machine, thimble, J. Browning  Engine. See Compound engine. Dental engine  Gas engine. Rotary engine. Single-acting en gine.  Engine driving gear, steam, J. Baird.  Envelope, coin, A. F. Rolfe et al.  Exaporating apparatus, C. C. Peck.  Exercising machine, J. E. Dowd.  Exhaust nozzle, L. P. Garner.	426,414 426,314 426,481 426,481 426,361 426,361 426,361 426,361 426,361 426,365 426,196 426,196 426,205 426,100 426,205 426,100 426,205 426,100 426,410 426,42	Lamp holder, incandescent electric, P. H. Klein, Jr  Lamp hood and support, electric, E. P. Warner  Lamp, incandescent electric, J. W. Packard  Land roller, Horey & Marsh  Lantern, combined platform and signal, M. Morton  Latch, W. H. Stinson  Latch, W. H. Stinson  Leather glazing machine, G. V. Anderson  Lemon cutter and squeezer, S. T. Jull  Life at sea, pillow or bolster for saving, D. Taylor Life-preserver, J. Christensen  Lightning arrester, A. D. Spear  Lock, See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock.  Lock, W. Hover  Lock, F. G. Stark  Locomotives, stand pipe for supplying water to, G. B. Jucksen  Looms, wire operating device for pile fabric, W. Kothe  Lubricator, T. J. Hart  Manhole for underground electric conduits, J. F. Munsie  Manometer, registering, Lusuardi & Falco  Marking instrument, B. Arnold  Match and mode of making, Y. Gonzalez-Gomez  Measurements according to one system into another system, instrument for transferring, H. Hagemann  Measuring device, lumber, T. Newnham  Meat cutter, S. T. Juli  Mechanical movement, J. A. Watson  Metallic tube, C. L. Betts  Metallic tube, C. L. Betts  Metallic tube, C. F. Erb  Molor. See Car motor. Electric motor. Water motor. Wave motor.  Mowing machine, D. O. Abel	426,189 426,155 426,055 426,018 426,081 426,281 426,283 426,338 426,273 426,273 426,273 426,274 426,284 426,284 426,029 426,007 426,010 426,305 426,413 425,993 425,993 425,975 426,046	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw. Sawmill attachment, E. P. Armstrong. Screen, J. W. Boughton. Screw cutting die head, J. A. Becher. Screwdriver, ratchet, R. C. Ellrich. Screw nail, S. E. Groff. Screw, wire, L. W. Merriam. Seal lock, R. M. Sully. Seat. See Car seat. Water closet seat. Separator. See Cream separator. Tooth separator. Sewing machine, H. H. Fefel. Sewing machine, E. Woodward. Sewing machines, butten holder for button, J. Mathison. Sewing machines, trimming attachment for looped fabric, G. Cooper. Shears. See Tinner's shears. Sheet metal box, C. J. Hauck, Jr. Sheet metal, embossing, A. Langerfeld. Sheet metal folding machine, S. F. Woodworth. Ships or vessels, apparatus for raising sunken, M. Garland. Shirt, C. L. Christmann. Shoe shanks, machine for making, Sprague & Fowler. Shutter fastener and bower, W. J. Scott. Sight, J. J. Scholfield. Signal. See Railway signal. Signaling apparatus for hotels, electric, J. J. Miller. Single acting engine, J. P. Tidwell. Skiving machine, upper, G. F. Bunn. Slate frame, D. Scryngeour. Smokehouse and meat safe, combined, J. M. Badgley. Snow from railway tracks, apparatus for removing, H. H. Kryger. Soldering device, can, R. T. Smith.	426,494 426,332 426,223 426,098 426,098 426,294 426,293 426,293 426,293 426,293 426,244 426,376 426,332 426,332 426,333 426,334 426,334 426,334 426,334 426,341 426,41
Door or window casing for frame buildings, Lee & Johnson.  Door support, sliding, J. R. Payson, Jr.  Doors, device for opening and closing, E. H. Hemenway.  Drawbar spring pocket, C. T. Schoen.  Drier. See Clothes drier.  Drier for humid materials. Buttner & Meyer.  Drilling machine, Proctor & Knowles.  Dumbwaiters, etc., indicator for, L. Friess.  Dye, red, A. Weinberg.  Dynamo safety device, E. P. Clark.  426,108tc  Eggs, device for opening hot boiled, G. W. King.  Electric cables, apparatus for hauling through, J. F. Munsie.  Electric machine, dynamo, Wightman & Thomson.  Electric machine, dynamo, Wightman & Thomson.  Electric motor, Davis & Scott, Jr.  Electric witch, J. P. Norton.  Electrical distribution, system of, C. J. Knitner.  Electromagnetic instrument, P. B. Delaney.  Electromagnetic instrument, P. B. Delaney.  Elevator for letters, etc., C. E. Reid.  Elevator safety device, S. G. Bennett.  Elembossing machine, thimble, J. Browning.  Engine. See Compound engine. Dental engine.  Gas engine. Rotary engine. Single-acting engine.  Engine driving gear, steam. J. Baird.  Envaporating apparatus, C. C. Peeck.  Exercising machine, J. E. Dowd.	426,414 426,314 426,481 426,481 426,361 426,361 426,352 426,257 426,345 426,196 426,205 426,100 426,205 426,100 426,205 426,100 426,418 426,197 426,418 426,104 426,418 426,104 426,418 426,104 426,418 426,104 426,418 426,407	Lamp holder, incandescent electric, P. H. Klein, Jr.  Lamp hood and support, electric, E. P. Warner.  Lamp, incandescent electric, J. W. Packard.  Land roller, Horey & Marsh  Lantern, combined platform and signal, M. Morton.  Latch, W. H. Stinson.  Latch, W. H. Stinson.  Lethes, adjustable tool holder for, J. H. Parker.  Leather glazing machine, G. V. Anderson.  Lemon cutter and squeezer, S. T. Jull  Life at sea, pillow or bolster for saving, D. Taylor  Life-preserver, J. Christensen.  Lightning arrester, A. D. Spear.  Lock. See Combination lock. Gun lock. Indicator lock. Nut lock. Seal lock.  Lock, F. G. Stark  Locomotives, stand pipe for supplying water to, G. B. Jacksen.  Looms, wire operating device for pile fabric, W. Kothe.  Lubricator, T. J. Hart.  Manhole for underground electric conduits, J. F. Munsie.  Manometer, registering, Lusuardi & Falco.  Marking instrument, B. Arnold  Match and mode of making, Y. Gonzalez-Gomez.  Measurements according to one system into another system, instrument for transferring, H. Hagemann  Measuring device, lumber, T. Newnham.  Meast cutter, S. T. Juli.  Mechanical movement, J. A. Watson.  Metal wheel, M. De Mars.  Metallic tube, C. F. Erb.  Mill appliance, McCleane & Faber, Jr.  Motor. See Car motor. Electric motor. Water motor. Wave motor.	426,189 426,155 426,055 426,018 426,080 426,311 426,225 426,188 426,383 426,373 426,273 426,124 426,284 426,284 426,305 426,094 426,010 426,305 426,413 426,343 426,343 426,343 426,343 426,945 426,000 426,006 425,968 425,968 426,248	Sash fastener, F. P. McGovern Sash fastener, Wintermute & Hernshaw. Sawmill attachment, E. P. Armstrong. Screen, J. W. Boughton. Screw cutting die head, J. A. Becher. Screwdriver, ratchet, R. C. Ellrich. Screw nail, S. E. Groff. Screw, wire, L. W. Merriam Seal lock, R. M. Sully. Seat. See Car seat. Water closet seat. Separator. See Cream separator. Tooth separator. Sewing machine. H. H. Fefel. Sewing machine, E. Woodward. Sewing machine, E. Woodward. Sewing machines, butten holder for button, J. Mathison. Sewing machines, trimming attachment for looped fabric, G. Cooper. Shears. See Tinner's shears. Sheet metal box, C. J. Hauck, Jr. Sheet metal, embossing, A. Langerfeld. Shet metal folding machine, S. F. Woodworth. Ships or vessels, apparatus for raising sunken, M. Garland. Shirt, C. L. Christmann. Shoe shanks, machine for making, Sprague & Fowler. Shutter fastener and bower, W. J. Scott. Sight, J. J. Scholfield. Signal. See Railway signal. Signaling apparatus for hotels, electric, J. J. Miller. Single acting engine, J. P. Tidwell. Skiving machine, upper, G. F. Buunn. Slate frame, D. Scrymgeour. Smokehouse and meat safe, combined, J. M. Badgley. Snow from railway tracks, apparatus for removing, H. H. Kryger.	426,494 426,332 426,232 426,928 425,908 426,294 426,293 426,293 426,293 426,293 426,332 426,352 426,352 426,352 426,352 426,352 426,352 426,352 426,352 426,352 426,352 426,353 426,353 426,354 426,354 426,134 426,134 426,134 426,134 426,134 426,134 426,134 426,134 426,134 426,134 426,136 426,038