## RECENTLY PATENTED INVENTIONS. Mechanical Marine Contrivances.

PROPELLER .- JOHN BARNETT, Hotel Irvine, Chicago, Ill. This new form of propeller-wheel is designed to secure the more efficient propulsion of the vessel and is to be used in a series so arranged that the discharge of water from one propeller does not interfere with the effective action of the next propeller in the rear. Each propeller-wheel comprises a shaft having a rigidly-attached disk provided with spiral blades winding around the shaft. These blades have a free outward discharge away from the disk.

#### Engineering Improvements.

ENGINE-VALVE.—CHARLES G. HOLMBERG. Woonsocket, So. Dak. The admission and exhaust of steam to and from the engine-cylinder are properly controlled and the desired cutoff is obtained by means of a valve, comprising a main portion and an auxiliary portion, the portion has cut-off flanges each provided with a port adapted to register alternately with ports in the valve-chest. A cut-out portion

#### Locks.

LOCK .- JASPER H. WILSON, Rockwood, Tenn. The invention provides a bag-fastening lock, and particularly a lock designed to secure the the mail-bag; a staple in the case, and a latch-bar is arranged to pass through the tipplate, and then through the staple. To rock the latch-bar away from the tip-plate and staple, a spring is employed. A device is provided for retaining the latch-bar in engagement with the tip-plate and staple. The hook member of the latch-bar is released from the tip-plate and staple by means of a key. The invention provides a lock which is simple and efficient.

COMBINATION-PADLOCK.—THOMAS HART, Ebenezer, S. C. The inventor has devised a simple and practical combination padlock of small cost, which is easily operated, is not liable to get out of order, and cannot be opened by anyone ignorant of the combination. The shank of the keeper is locked in the case by transverse sliding bars, the opposite ends of which project outside of the case. The invention is intended for use as a stoplock, door-lock, or any other form of lock for which it may be applicable. One of the features of the construction is the tumblers which are provided at both ends with heads limiting their movement. Thus the necessity of providing any separate means for holding the tumbblers in the case is avoided.

# Railway Contrivances.

RAILWAY SYSTEM .- JOHN W. JENKINS, 124 Front Street, New York city. The purpose of this invention is so to improve a railway system that passengers can enter and leave a car without stopping the movement of the train. To this end a number of riders or saddle cars are employed, which are successively taken up and dropped from the moving train, and through the medium of which passengers can enter or leave the car without interrupting the movement of the train.

## Vehicle Accessories.

WHEEL.-CHARLES RENARD, 33 Rue Cambon, Paris, France. The inventor has devised an improved wheel-felly provided with a detachable rim. The invention is to be used in connection with the fellies of vehicle-wheels having pneumatic tires. The invention is principally characterized by the combination with circular channels formed in the pulley of one, two, or more wires arranged in such a manner as to permit one of the edges of the felly to be withdrawn for the purpose of detaching the tire.

MUD-GUARD FOR BICYCLES.—SPENCER MILLER, Rochester, N. Y. The object of the invention is to provide an attachable mudguard for a bicycle, which is adapted for rocking adjustment so as to hold the guard sein lowered position for an elevated position when not needed.

ELASTIC TIRE.—WILLIAM F. WILLIAMS, 17 and 18 Great Pulteney Street, Golden Square, London, Eng. The invention relates to the manufacture of elastic tires of the solid or cushion type. With the object of preventing lengthening or tearing of the tires of motorcar driving-wheels, Mr. Williams embeds in the strips laced together. To two of the strips thickness of the tire, cords or strands which are knotted at frequent intervals, so as to obtain a number of reinforcing points of abutment or resistance to tensional strain. The cords extend around the tire in the circumferential direction of the wheel, and in one layer or in several separate layers located particularly toward the tread of the tire. To these cords, branch cords, also knotted at intervals, are attached, the branch cords diverging herringbone or V wise, so as to reinforce the main spans.

VEHICLE-SPINDLE. — JOSEPH DARLING, Chicora. Pa. Mr. Darling has invented a device for securing nuts upon the outer ends of spindles of vehicle-axles whereby the nuts are the invention, and date of this paper.

prevented from accidentally turning off and from being turned too tightly upon the spindle. The nuts, moreover, can be secured in any desired adjustment upon the spindle.

#### Miscellaneous Inventions.

BUCKSAW.—CHARLES T. REDFIELD, Glenhaven, N. Y. The present invention, an improvement upon a similar device patented by Mr. Redfield, relates to the means for connecting the continuous brace-bar, which overlies the arch bar, with the end-bars of the saw-frame. The connection of the brace-bar with the endbars is facilitated, and adjustment at such point is permitted, so as to aid in tightening the frame in taking up any slack that may

VETERINARY INSTRUMENT. — ABRAHAM VAN ROEKEL, Sioux Center, Iowa. The invention comprises a number of peculiarly-arranged finger-like rods adapted to be introduced into the vagina of an animal and to lie around the one controlled from the other. The auxiliary muzzle of the fetus. One of these rods carries a prong having a limited movement, and a cord is passed around the ends of the rods, so that when the muzzle of the fetus is properly inor cavity permits the passage of the exhaust. closed by drawing on the cord the rods are engaged firmly therewith and the prong is caused to enter the skin of the fetus. These firmly grasped, the fetus can be readily drawn out of the vagina as the animal labors.

FISHING-REEL.—JAMES H. SMITH, Salisbury Mills, N. Y. The prime object of the mouth of a mail-bag. The essential features invention is to provide a device which will of the construction are a case slotted in its give the fisherman a signal the instant that side to receive an apertured tip-plate on the the hook has been taken by a fish. Combined mail-bag strap; the case being securable on with a frame is a reel, a bell, and a springsustained clapper arranged to turn simultanrockable latch bar. A hook member on the eously with the wheel. The instant the wheel proper is turned in either direction the clapper will sound the bell.

EGG-POACHER.—PETER C. QUAKENBUSH and CHARLES F. CARLSON, Paterson, N. J. The egg-poacher comprises a frame to which a cup is secured. A movable bottom, consisting of sections hinged to the cup at opposite sides, is provided with outward extensions. A slide is carried by the frame. Links, each having one end secured to the slide and the other end to the extension of a bottom section, complete the construction. The eggs when poached are readily freed of the adhering water and can be placed upon a dish or plate without the necessity of lifting them out of the poacher with

CLEANSING FILTER.—AUGUSTINE J. MAD-DEN. 187 Little Collins Street, Melbourne, Victoria, Australia. This invention has been devised to provide an efficient high-class filter so constructed that a simple action of the person turning on or off the cap (which takes the place of the ordinary draw off cock on a water pipe) causes the filter automatically to cleanse and flush away the residue collected from time

REGISTER .- EUGENE B. LOBACH, Denver, Colo. The register is arranged to control the admission of heated air into apartments. The register has a face or body portion and a case secured to the rear. A gate is held in the case, the case having its edges extended at the rear of the face. The face or body has perforations lying opposite the extended edges of the case. The perforations allow the free circulation of air and prevent heating the margin of the face of the register. This avoids the necessity of providing other means for preventing the convection of heat to the walls of the building.

GARMENT-FASTENER.—FANNY B. MATHEWson, Manhattan, New York city. This invention relates to improvements in garment-fasteners of the hook-and-eye order. The object is to provide a fastener of simple construction that can be readily attached to a garment without the usual sewing. The device is provided with a loop section and a hook portion forming part of the loop section. The hook portion is to be passed through the goods from the under side and then carried over and passed through the goods from the upper side and engaged with a plate. After thus engaging the hook with the plate, a tongue is to be turned over the hook to prevent a movement of the loop section and disconnection of the parts.

## Designs.

BOARD.—George Barrett, Victoria, B. C., The design provides a novel form of board which is to be used as a covering or weather board on frame-houses. The leading feature consists of a body having an ogee curve on one face at one edge and a groove in its other face at its opposite edge.

BODY-BRACE.—PHILO B. SHELDON, Erie, Pa. The brace consists of vertically-extending shoulder-straps are fastened; and from others a waistband extends. Below the waistband is a stomach-pad laced to certain of the strips. ABDOMINAL BANDAGE.—PHILO B. SHEL-DON. Erie. Pa. From the upper part of vertically-extending strips of equal length a waistband projects, and below this band at the front is a stomach-pad joined in strips by two pairs of straps, the lower pair of which are fastened to the strips at their lower ends and the upper pair of which are fastened to the strips near their upper ends.

Note.-Copies of any of these patents will be furnished by Munn & Co. for ten cents each. Please state the name of the patentee, title of

# INDEX OF INVENTIONS Expansible frame, H. A. Seymoure...... Fabric. See Garpet Fabric, Insole Fabric, Chenille Fabric.

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	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore.  Kinuckle, compensating emergency, J. J.  O'Brien  Lamp, W. N. Rose  Lamp, W. N. Rose  Lamp, desk or table, A. J. Wurts  Lamp, electric arc, J. A. Mosher.  Lamp, electric glow, W. Nernst. 685,725 to  Lamp glower, electric, W. Nernst.  Lamp glowers, material for electric, W.  Nernst  Lamp glowers, treating Nernst, M. W.  Hanks  Lamp heaters, controlling system for electric, H. N. Potter  Lamp heating device, electric, H. N. Potter	685,705 685,381 685,245 685,245 685,618 685,632 685,632 685,479 685,501 685,426 685,728 685,733 685,730 685,512
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore.  Kinuckle, compensating emergency, J. J.  O'Brien  Lamp, W. N. Rose.  Lamp, W. N. Rose.  Lamp, electric arc, J. A. Mosher.  Lamp, electric arc, J. A. Mosher.  Lamp, electric glow, W. Nernst. 685,729 to  Lamp glower, electric, W. Nernst.  Esspecial for electric, W. Nernst.  Mernst  Lamp glowers, material for electric, W. Nernst  Lamp glowers, treating Nernst, M. W. Hanks  Lamp heaters, controlling system for electric, H. N. Potter  Lamp heating device, electric, H. N. Potter  Lamp heating device, electric, H. N. Potter  Lamps, ballast cut out for electric, H. N. Potter	685,705 685,381 685,245 685,245 685,618 685,632 685,632 685,479 685,501 685,426 685,728 685,733 685,730 685,512
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore.  Kinuckle, compensating emergency, J. J.  O'Brien  Lamp, W. N. Rose.  Lamp, W. N. Rose.  Lamp, electric arc, J. A. Mosher.  Lamp, electric arc, J. A. Mosher.  Lamp, electric glow, W. Nernst. 685,729 to  Lamp glower, electric, W. Nernst.  Esspecial for electric, W. Nernst.  Mernst  Lamp glowers, material for electric, W. Nernst  Lamp glowers, treating Nernst, M. W. Hanks  Lamp heaters, controlling system for electric, H. N. Potter  Lamp heating device, electric, H. N. Potter  Lamp heating device, electric, H. N. Potter  Lamps, ballast cut out for electric, H. N. Potter	685,705 685,381 685,245 685,245 685,127 685,618 685,632 685,297 685,479 685,479 685,426 685,728 685,733 685,730 685,512 685,512
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	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore.  Kiln, J. W. Le Gore.  Kiln, J. W. Le Gore.  Lamp, W. N. Rose.  Lamp, W. N. Rose.  Lamp, W. N. Rose.  Lamp, electric arc, J. A. Mosher.  Lamp, electric glow, W. Nernst.  685,725 to  Lamp glower, electric, W. Nernst,  685,722, 685,725,  Lamp glowers, material for electric, W. Nernst  Lamp glowers, treating Nernst, M. W.  Hanks  Lamp heaters, controlling system for electric, H. N. Potter  Lamps ballast cut out for electric, H. N. Potter  Lamps, ballast device for electric glower,  W. Nernst.  Lamps, sontact key for sockets of electric incandescent, G. H. Proctor.	685,705 685,381 685,245 685,245 685,127 685,618 685,632 685,297 685,479 685,426 685,728 685,733 685,730 685,512 685,528 685,528 685,528 685,487 685,731 685,731
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore.  Kiln, J. W. Le Gore.  Kiln, J. W. Le Gore.  Lamp, W. N. Rose.  Lamp, W. N. Rose.  Lamp, W. N. Rose.  Lamp, electric arc, J. A. Mosher.  Lamp, electric glow, W. Nernst.  685,725 to  Lamp glower, electric, W. Nernst,  685,722, 685,725,  Lamp glowers, material for electric, W. Nernst  Lamp glowers, treating Nernst, M. W.  Hanks  Lamp heaters, controlling system for electric, H. N. Potter  Lamps ballast cut out for electric, H. N. Potter  Lamps, ballast device for electric glower,  W. Nernst.  Lamps, sontact key for sockets of electric incandescent, G. H. Proctor.	685,705 685,381 685,245 685,245 685,127 685,618 685,632 685,297 685,479 685,426 685,728 685,733 685,730 685,512 685,528 685,528 685,528 685,487 685,731 685,731
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore.  Kinuckle, compensating emergency, J. J.  O'Brien  Lamp, W. N. Rose  Lamp, W. N. Rose  Lamp, electric glow, W. Nernst. 685,449,  Lamp, electric arc, J. A. Mosher.  Lamp, electric glow, W. Nernst. 685,722, 685,732,  Lamp glower, electric, W. Nernst.  Bestyles, 685,732, 685,732,  Lamp glowers, material for electric, W. Nernst  Lamp glowers, treating Nernst, M. W. Hanks  Lamp pleaters, controlling system for electric, H. N. Potter  Lamp heating device, electric, H. N. Potter  Lamps, ballast cut out for electric, H. N. Potter  Lamps, contact key for sockets of electric incandescent, G. H. Proctor.  Lamps, heater cut out for electric, H. N. Potter  Lamps, heater cut out for electric, Lamps, heater cut out for electric, H. N. Potter  Lamps, heater cut out for electric, H. N. Potter  Lamps, heater cut out for electric, H. N. Potter  Lamps, heater cut out for electric, H. N. Potter  Land roller, A. O. Espe  Latch, J. C. Deggin.  Lathe indicator, J. C. Miller.  Lethes center steadying device for wood	685,705 685,381 685,245 685,245 685,127 685,618 685,632 685,297 685,479 685,426 685,728 685,733 685,730 685,512 685,528 685,528 685,528 685,487 685,731 685,731
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore.  Kinuckle, compensating emergency, J. J.  O'Brien  Lamp, W. N. Rose  Lamp, W. N. Rose  Lamp, electric glow, W. Nernst. 685,449,  Lamp, electric arc, J. A. Mosher.  Lamp, electric glow, W. Nernst. 685,722, 685,732,  Lamp glower, electric, W. Nernst.  Bestyles, 685,732, 685,732,  Lamp glowers, material for electric, W. Nernst  Lamp glowers, treating Nernst, M. W. Hanks  Lamp pleaters, controlling system for electric, H. N. Potter  Lamp heating device, electric, H. N. Potter  Lamps, ballast cut out for electric, H. N. Potter  Lamps, contact key for sockets of electric incandescent, G. H. Proctor.  Lamps, heater cut out for electric, H. N. Potter  Lamps, heater cut out for electric, Lamps, heater cut out for electric, H. N. Potter  Lamps, heater cut out for electric, H. N. Potter  Lamps, heater cut out for electric, H. N. Potter  Lamps, heater cut out for electric, H. N. Potter  Land roller, A. O. Espe  Latch, J. C. Deggin.  Lathe indicator, J. C. Miller.  Lethes center steadying device for wood	685,705 685,381 685,245 685,127 685,612 685,632 685,632 685,632 685,632 685,723 685,733 685,733 685,730 685,528 685,528 685,731 685,731 685,731 685,528 685,686 685,688 685,688 685,688 685,688 685,688 685,682 685,692
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore.  Kinuckle, compensating emergency, J. J.  O'Brien  Lamp, W. N. Rose  Lamp, W. N. Rose  Lamp, electric glow, W. Nernst. 685,449,  Lamp, electric arc, J. A. Mosher.  Lamp, electric glow, W. Nernst. 685,722, 685,732,  Lamp glower, electric, W. Nernst.  Bestyles, 685,732, 685,732,  Lamp glowers, material for electric, W. Nernst  Lamp glowers, treating Nernst, M. W. Hanks  Lamp pleaters, controlling system for electric, H. N. Potter  Lamp heating device, electric, H. N. Potter  Lamps, ballast cut out for electric, H. N. Potter  Lamps, contact key for sockets of electric incandescent, G. H. Proctor.  Lamps, heater cut out for electric, H. N. Potter  Lamps, heater cut out for electric, Lamps, heater cut out for electric, H. N. Potter  Lamps, heater cut out for electric, H. N. Potter  Lamps, heater cut out for electric, H. N. Potter  Lamps, heater cut out for electric, H. N. Potter  Land roller, A. O. Espe  Latch, J. C. Deggin.  Lathe indicator, J. C. Miller.  Lethes center steadying device for wood	685,705 685,381 685,245 685,127 685,612 685,632 685,632 685,632 685,632 685,723 685,733 685,733 685,730 685,528 685,528 685,731 685,731 685,731 685,528 685,686 685,688 685,688 685,688 685,688 685,688 685,682 685,692
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore.  Kinuckle, compensating emergency, J. J.  O'Brien  Lamp, W. N. Rose  Lamp, M. Johnson.  685,449,  Lamp, desk or table, A. J. Wurts.  Lamp, electric arc, J. A. Mosher.  Lamp, electric arc, J. A. Mosher.  Lamp, electric arc, J. A. Wernst.  Eamp, electric, W. Nernst.  685,729, 685,732,  Lamp glowers, material for electric, W. Nernst.  Lamp glowers, treating Nernst, M. W. Hanks  Lamp heaters, controlling system for electric, H. N. Potter  Lamp heating device, electric, H. N. Potter  Lamps, ballast cut out for electric, H. N. Potter  Lamps, ballast device for electric glower,  W. Nernst.  Lamps, contact key for sockets of electric incandescent, G. H. Proctor.  Lamps, beater cut out for electric, H. N. Potter  Land roller, A. O. Espe.  Latch, J. C. Deggin.  Lathe indicator, J. C. Miller.  Lathe, center steadying device for wood turning, O. D. Rhodes.  Lavatory or bath, G. L. Woodworth  Leaf cutter. G. S. Dolloff.  Leather, degreasing, W. W. Adams, Jr.  Leather, degreasing apparatus, W. W.	685,705 685,381 685,245 685,127 685,618 685,297 685,479 685,426 685,728 685,730 685,712 685,528 685,731 685,528 685,731 685,588 685,788 685,588 685,588 685,588 685,588 685,588 685,588
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore.  Kiln, J. W. Le Gore.  Kiln, J. W. Le Gore.  C'Brien  O'Brien  Lamp, W. N. Rose.  Lamp, W. N. Rose.  Lamp, M. Johnson.  Lamp, electric arc, J. A. Mosher.  Lamp, electric glow, W. Nernst. 685,729, 685,732,  Lamp glowers, electric, W. Nernst.  Lamp glowers, material for electric, W. Nernst.  Lamp glowers, treating Nernst, M. W. Hanks.  Lamp plowers, treating Nernst, M. W. Hanks  Lamp heaters, controlling system for electric, H. N. Potter.  Lamp beating device, electric, H. N. Potter Lamps, ballast cut out for electric, H. N. Potter.  Lamps, ballast device for electric glower, W. Nernst.  Lamps, ballast device for electric incandescent, G. H. Proctor.  Lamps, beater cut out for electric, H. N. Potter Lamps, ballast device for electric lincandescent, G. H. Proctor.  Lamps, heater cut out for electric, H. N. Potter.  Land roller, A. O. Espe  Latch, J. C. Deggin.  Lathe indicator, J. C. Miller.  Lathes, center steadying device for wood turning, O. D. Rhodes.  Lavatory or bath, G. L. Woodworth.  Leather degreasing, W. W. Adams, Jr  Leather degreasing apparatus, W. W. Adams, Jr  Leather stretching device, J. Caldwell	685,705 685,381 685,245 685,127 685,618 685,297 685,479 685,728 685,730 685,730 685,730 685,512 685,730 685,528 685,731 685,731 685,288 685,688
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore.  Kiln, J. W. Le Gore.  Kiln, J. W. Le Gore.  C'Brien  O'Brien  Lamp, W. N. Rose.  Lamp, W. N. Rose.  Lamp, M. Johnson.  Lamp, electric arc, J. A. Mosher.  Lamp, electric glow, W. Nernst. 685,729, 685,732,  Lamp glowers, electric, W. Nernst.  Lamp glowers, material for electric, W. Nernst.  Lamp glowers, treating Nernst, M. W. Hanks.  Lamp plowers, treating Nernst, M. W. Hanks  Lamp heaters, controlling system for electric, H. N. Potter.  Lamp beating device, electric, H. N. Potter Lamps, ballast cut out for electric, H. N. Potter.  Lamps, ballast device for electric glower, W. Nernst.  Lamps, ballast device for electric incandescent, G. H. Proctor.  Lamps, beater cut out for electric, H. N. Potter Lamps, ballast device for electric lincandescent, G. H. Proctor.  Lamps, heater cut out for electric, H. N. Potter.  Land roller, A. O. Espe  Latch, J. C. Deggin.  Lathe indicator, J. C. Miller.  Lathes, center steadying device for wood turning, O. D. Rhodes.  Lavatory or bath, G. L. Woodworth.  Leather degreasing, W. W. Adams, Jr  Leather degreasing apparatus, W. W. Adams, Jr  Leather stretching device, J. Caldwell	685,705 685,381 685,245 685,127 685,618 685,632 685,632 685,632 685,626 685,728 685,733 685,730 685,730 685,518 685,781 685,285 685,781 685,285 685,588 685,688 685,688 685,688 685,588 685,692 685,551 685,555
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore.  Kiln, J. W. Le Gore.  Kiln, J. W. Le Gore.  C'Brien  O'Brien  Lamp, W. N. Rose.  Lamp, W. N. Rose.  Lamp, M. Johnson.  Lamp, electric arc, J. A. Mosher.  Lamp, electric glow, W. Nernst. 685,729, 685,732,  Lamp glowers, electric, W. Nernst.  Lamp glowers, material for electric, W. Nernst.  Lamp glowers, treating Nernst, M. W. Hanks.  Lamp plowers, treating Nernst, M. W. Hanks  Lamp heaters, controlling system for electric, H. N. Potter.  Lamp beating device, electric, H. N. Potter Lamps, ballast cut out for electric, H. N. Potter.  Lamps, ballast device for electric glower, W. Nernst.  Lamps, ballast device for electric incandescent, G. H. Proctor.  Lamps, beater cut out for electric, H. N. Potter Lamps, ballast device for electric lincandescent, G. H. Proctor.  Lamps, heater cut out for electric, H. N. Potter.  Land roller, A. O. Espe  Latch, J. C. Deggin.  Lathe indicator, J. C. Miller.  Lathes, center steadying device for wood turning, O. D. Rhodes.  Lavatory or bath, G. L. Woodworth.  Leather degreasing, W. W. Adams, Jr  Leather degreasing apparatus, W. W. Adams, Jr  Leather stretching device, J. Caldwell	685,705 685,381 685,245 685,127 685,618 685,632 685,632 685,629 685,620 685,728 685,733 685,730 685,731 685,528 685,781 685,588 685,788 685,588 685,688 685,588 685,682 685,682 685,692 685,692 685,692 685,692 685,692 685,693
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore  Kiln, J. W. Le Gore  Kinuckle, compensating emergency, J. J.  O'Brien  Lamp, W. N. Rose	685,705 685,381 685,245 685,127 685,618 685,632 685,632 685,632 685,626 685,733 685,733 685,730 685,528 685,731 685,528 685,781 685,588 685,783 685,588 685,682 685,682 685,686 685,676 685,555 685,685
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore  Kinuckle, compensating emergency, J. J.  O'Brien  Lamp, W. N. Rose	685,705 685,381 685,245 685,127 685,618 685,632 685,632 685,621 685,628 685,733 685,730 685,731 685,528 685,781 685,588 685,682 685,688
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore  Kinuckle, compensating emergency, J. J.  O'Brien  Lamp, W. N. Rose	685,705 685,381 685,245 685,127 685,618 685,632 685,632 685,621 685,628 685,733 685,730 685,731 685,528 685,781 685,588 685,682 685,688
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore  Kinuckle, compensating emergency, J. J.  O'Brien  Lamp, W. N. Rose	685,705 685,381 685,245 685,247 685,618 685,632 685,632 685,623 685,728 685,733 685,730 685,730 685,528 685,781 685,528 685,685,686 685,686
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore  Kinuckle, compensating emergency, J. J.  O'Brien  Lamp, W. N. Rose	685,705 685,381 685,245 685,247 685,618 685,632 685,632 685,623 685,728 685,733 685,730 685,730 685,528 685,781 685,528 685,685,686 685,686
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore  Kinuckle, compensating emergency, J. J.  O'Brien  Lamp, W. N. Rose	685,705 685,381 685,245 685,247 685,618 685,632 685,632 685,623 685,728 685,733 685,730 685,730 685,528 685,781 685,528 685,685,686 685,686
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore  Kinuckle, compensating emergency, J. J.  O'Brien  Lamp, W. N. Rose	685,705 685,381 685,245 685,247 685,618 685,632 685,632 685,623 685,728 685,733 685,730 685,730 685,528 685,781 685,528 685,685,686 685,686
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore  Kinuckle, compensating emergency, J. J.  O'Brien  Lamp, W. N. Rose	685,705 685,381 685,245 685,247 685,618 685,632 685,632 685,621 685,628 685,733 685,730 685,731 685,486 685,528 685,781 685,588 685,688
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore.  Correlation of the control of the con	685,705 685,381 685,245 685,127 685,6132 685,632 685,632 685,297 685,479 685,426 685,528 685,730 685,512 685,512 685,512 685,528 685,731 685,528 685,686 685,588 685,692 685,686 685,676 685,587 685,686 685,687 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore.  Kinuckle, compensating emergency, J. J.  O'Brien  Lamp, W. N. Rose  Lamp, N. Johnson.  685,449,  Lamp, electric arc, J. A. Mosher.  Lamp, electric arc, J. A. Mosher.  Lamp, electric glow, W. Nernst. 685,725 to  Lamp glower, electric, W. Nernst.  Mernst  Lamp glowers, material for electric, W.  Nernst  Lamp glowers, treating Nernst, M. W.  Hanks  Lamp glowers, treating Nernst, M. W.  Lamp heaters, controlling system for electric, H. N. Potter  Lamp heating device, electric, H. N. Potter  Lamp heating device, electric, H. N. Potter  Lamps, ballast cut out for electric glower,  W. Nernst.  Lamps, contact key for sockets of electric in-  candescent, G. H. Proctor.  Lamps, heater cut out for electric, H. N.  Potter  Land roller, A. O. Espe  Latch, J. C. Deggin.  Lathe indicator, J. C. Miller  Lathes, center steadying device for wood  turning, O. D. Rhodes.  Lavatory or bath, G. L. Woodworth  Leaf cutter, G. S. Dolloff.  Leather, degreasing, W. W. Adams, Jr.  Leather degreasing apparatus, W. W.  Adams, Jr.  Leather stretching device, J. Caldewill  Eather stretching device, J. Caldewill  Link, repair, F. G. Asbill  Lock, F. W. Mix  Locking hook, automatic, E. L. Weed.  Lock om shedding motton, E. Oldfield  Lock om shedding motton, E. Oldfield  Lock F. W. Mix  Locking hook, automatic, E. L. Weed.  Lock on shedding motton, E. Oldfield  Lock on shedding motton, E. Oldfield  Lock F. W. Mix  Lock on an are reserved and delivering device, G.  S. Cromwell  Magnetic device for use in alternating cur-  rent circuits, J. Pearson  Magnetic device for use in alternating cur-  rent circuits, J. Pearson  Magnetic device for use in alternating cur-  rent circuits, J. Pearson  Magnetic device for use in a	685,705 685,381 685,245 685,127 685,6132 685,632 685,632 685,297 685,479 685,426 685,528 685,730 685,512 685,512 685,512 685,528 685,731 685,528 685,686 685,588 685,692 685,686 685,676 685,587 685,686 685,687 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683 685,683
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore  Kinuckle, compensating emergency, J. J.  O'Brien  Lamp, W. N. Rose	685,705 685,381 685,245 685,247 685,632 685,632 685,297 685,479 685,426 685,528 685,733 685,730 685,512 685,486 685,528 685,781 685,528 685,686 685,588 685,686 685,588 685,686 685,586 685,586 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,687 685,588 685,688
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore.  Kinuckle, compensating emergency, J. J.  O'Brien  Lamp, W. N. Rose  Lamp, M. Johnson.  685,449,  Lamp, desk or table, A. J. Wurts.  Lamp, electric arc, J. A. Mosher.  Lamp, electric arc, J. A. Mosher.  Lamp, electric arc, J. A. Mosher.  Lamp, electric glow, W. Nernst. 685,729,  Eamp glower, electric, W. Nernst.  Mernst  Lamp glowers, material for electric, W. Nernst  Mernst  Lamp glowers, treating Nernst, M. W.  Hanks  Lamp beaters, controlling system for electric, H. N. Potter  Lamp heating device, electric, H. N. Potter  Lamps, ballast cut out for electric glower,  W. Nernst.  Lamps, contact key for sockets of electric in candescent, G. H. Proctor.  Lamps, heater cut out for electric, H. N.  Potter  Land roller, A. O. Espe  Latch, J. C. Deggin.  Lathe Indicator, J. C. Miller  Lathe Indicator, J. C. Miller  Lather, degreasing, W. W. Adams, Jr.  Leather degreasing apparatus, W. W.  Adams, Jr.  Leather stretching device, J. Caldwell  Leaf cutter. G. S. Bolloff  Leather, tegreasing apparatus, W. W.  Adams, Jr.  Leather stretching device, J. Caldwell  Life preserver, G. I. de Irsa.  Linoleum floor cloth, manufacture of, D. N.  Melvin  Linotype machine, P. T. Dodge.  Lintel block, H. W. Bell.  Locking hook, automatic, E. L. Weed  Lockomy hook, automatic, E. L. Weed  Locko	685,705 685,381 685,245 685,247 685,612 685,632 685,632 685,297 685,426 685,528 685,733 685,730 685,512 685,486 685,528 685,781 685,528 685,686 685,588 685,686 685,588 685,692 685,686 685,568 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,687 685,687 685,688
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore	685,705 685,381 685,245 685,247 685,618 685,297 685,479 685,479 685,728 685,730 685,730 685,518 685,730 685,518 685,781 685,528 685,487 685,588 685,481 685,288 685,481 685,286 685,481 685,284 685,481
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore	685,705 685,381 685,245 685,247 685,618 685,629 685,619 685,621 685,426 685,730 685,730 685,731 685,528 685,781 685,528 685,588 685,588 685,588 685,588 685,588 685,588 685,588 685,588 685,588 685,588 685,588 685,588 685,588 685,692 685,676 685,551 685,555 685,553 685,553 685,553 685,553 685,553 685,553 685,553 685,553 685,520 685,684 685,520 685,684 685,523 685,524
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore	685,705 685,381 685,245 685,612 685,612 685,613 685,621 685,621 685,621 685,730 685,731 685,525 685,781 685,525 685,588 685,622 685,588 685,686 685,588 685,686 685,588 685,686 685,588 685,686 685,588 685,686 685,588 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,688 685,288 685,388 685,288 685,388 685,288
	ating mechanism for, D. Murray.  Kiln, J. W. Le Gore	685,705 685,381 685,245 685,612 685,612 685,613 685,621 685,621 685,621 685,730 685,731 685,525 685,781 685,525 685,588 685,622 685,588 685,686 685,588 685,686 685,588 685,686 685,588 685,686 685,588 685,686 685,588 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,686 685,688 685,288 685,388 685,288 685,388 685,288