

## RECENTLY PATENTED INVENTIONS.

## Agricultural Implements.

**MOWING-MACHINE.**—B. C. WHITE and T. J. JONES, Catlin, Ill. In mowing machines there is always a tendency of the knives to become clogged, whereby the machine is with difficulty started from a position of rest and whereby the knives do not at first act with proper efficiency. The purpose of this invention is to overcome these difficulties, the motive power being first applied to starting the sickle, thereby unblocking the cutting mechanism, so that when power is applied in the usual way, the machine will move forward easily.

## Electrical Devices.

**ELECTRICAL TYPEWRITER.**—CHARLES GIBBS, New York, N. Y. Mr. Gibbs is the inventor of a typewriter operated by electricity. The machine is neat, compact and simple in construction, having nearly all its parts relating to electricity so disposed as to be readily accessible. A revolving cylinder is provided on which a series of buttons are located which correspond to the characters. In operation the desired buttons are depressed and as the revolving cylinder brings the same into contact with a series of brushes the proper characters are printed on the sheet.

**ELECTRICAL SYSTEM OF RECORDING AND CHECKING AS APPLIED TO RAILWAY SIGNALING.**—W. H. M. WEAVER, Macon, Ga. This electrical recording and checking apparatus operates as a check upon the operator in the manipulation of his railroad signal apparatus and also upon the dispatcher. The act of reversing a semaphore arm sets in operation an electrical device by means of which a telegraphic sign is transmitted to the central office and duly registered by means of the dispatcher's telegraphic instrument and also by means of a time recorder.

**SELECTIVE CALL FOR TELEGRAPH OR TELEPHONE LINE.**—W. PALMER, JR., Rincon, New Mexico. The object of this invention is to enable an operator or train dispatcher on a telegraph line to cause an alarm bell to ring at any one or more of the distant stations without ringing the bells at the other stations, and to enable a subscriber or the central office of a telephone line to accomplish the same results under similar conditions.

## Engineering Improvements.

**ROTARY ENGINE.**—W. F. EVANS, Chicago, Ill. Mr. Evans is the inventor of an improved rotary engine of simple and durable construction which is very effective in operation, easily reversible, and arranged to utilize the motive agent to the fullest advantage.

## Machines and Mechanical Devices.

**VENEER-BENDING MACHINE.**—E. ABER, Jacksonville, Texas. This machine is designed to bend portions of veneer with a comparatively slow movement, subsequent to sizing or moistening the work and while it is in engagement with a heated form, thus giving the veneer an opportunity to become thoroughly heated while being bent and making it practicable to bend the stock sharply and thick enough to make baskets for heavy use.

**INDICATOR FOR SAWMILL-KNEES.**—J. D. BEATTY, Klondike, N. C. The invention relates to indicators used for sawmill knees for showing the position of the log to be sawed, so that the thickness of lumber to be cut away may be readily ascertained and that the width of the log may be exhibited in units of boards of different thickness.

**SPIRAL CONVEYER.**—C. G. WILLIAMS, Dalton, Iowa. The invention relates to spiral conveyors for moving grain or other material, and it provides certain improvements whereby several sections of the spiral shaft can be readily and securely fastened together and any one section requiring repairs may be readily removed at any time without disturbing the other sections.

**KRAUT-CUTTER.**—G. H. KINKADE and I. MAGER, Hardin, Ill. An improvement in kraut-cutters is hereby provided whereby cabbage may rapidly and easily be cut into thin strings or kraut. A simple and effective device is afforded by the invention, which is composed of few parts not likely to get out of order and adapted to be readily repaired.

**BALANCING DEVICE FOR TURBINE GATES.**—W. W. TYLER, York, Pa. Mr. Tyler hereby provides certain new and useful improvements in balancing devices for turbine gates whereby the gate is completely balanced at any stage of its opening so that the pressure of the water neither tends to open or close the gate and hence the latter can be easily opened or closed by an attendant.

**FRAME FOR METAL-SHEARING MACHINES.**—B. WESSELMANN, 2 Gartenstrasse, Gross Lichterfelde, near Berlin, Germany. The frame consists of two parts, one of which carries the cutter or blade, which during the process of cutting remains stationary, while the other part constitutes what is generally known as the "body" or "trunk" of the frame. By this method of splitting up the shear frame, material advantages are gained both in regard to the use of the shears and in regard to their manufacture.

**FILTER.**—THEODORE LINKE, New York, N. Y. This filter belongs to the type having a filter-stone mounted to rotate and a cleaner-stone therefor. Mr. Linke provides a simple means for causing the cleaner-stone to follow the reduced diameter of the filter-stone when it wears away and to maintain equal pressure at all times.

**INDICATOR.**—T. F. MCCULLOUGH, Memphis, Tenn. Mr. McCullough is the inventor of an indicating apparatus for displaying successive numbers or other characters. It is specially adapted for use in barber shops and like places where persons wait for service in their turn, and when so placed it may with advantage be used in connection with a check box, the customers receiving numbered checks from the check box and the number of these checks being subsequently indicated in their successive order by this indicator.

## Railway Contrivances.

**CAR-MOVER.**—H. C. HARRINGTON and W. M. TOWERS, Rome, Ga. Briefly stated the invention involves a peculiar frame to which a lever is pivoted, a novel means for clamping the rail and novel details of construction whereby a leverage may be brought to bear upon a car wheel to move the car.

**TRACK-BRAKE.**—T. S. BUTLER, Vandergrift, Pa. This brake belongs to that class of car brakes in which the braking device is applied to the rails, thus saving wear on the car-wheels. With this improved construction the brakes may be applied with great force whenever an emergency occurs. The wearing parts may be renewed at slight expense.

## Vehicles and Their Accessories.

**BICYCLE-FRAME.**—R. F. MONAHAN, Buffalo, N. Y. Mr. Monahan provides in this invention novel features of construction for the frame of a bicycle which will render its rear portion measurably resilient and afford necessary strength to the frame. The employment of this improvement will increase the benefits derived from the provision of pneumatic tires, and add to the durability of the bicycle as well as to the ease of the rider in traveling over rough places.

**DRIVING MECHANISM FOR BICYCLES.**—K. BROOKS, New York, N. Y. The purpose of the invention is to loosely mount the front sprocket on the crank-shaft of a bicycle and drive the sprocket from the crank through a cushioned yet positive connection. This connection is such as will tend to obviate severe shocks to the machine, thus adding to its lifetime and contributing to the comfort of the rider.

**BRAKE MECHANISM.**—H. W. COOLEY, Lost Valley, Oregon. An improvement in operating-levers and holding devices for wagon-brakes has been devised by Mr. Cooley. The operating mechanism may be manipulated by a person in the vehicle, to firmly set and hold the brake, or it may be operated to set or release the brake by a person riding on a wheel-horse.

**BICYCLE SPROCKET AND CRANK.**—G. SPENCE, Newport, R. I. The invention relates to an improved sprocket and crank secured thereto, more particularly for use on bicycles. The device is a neat and compact structure which may be cheaply made and is not liable to get out of order. The ball-bearings are centrally disposed and the sprocket is at one side so that it may be connected in the usual manner to the rear sprocket. By this arrangement, although the alignment is upon the side, yet the wear is in the center of the machine.

**MOTOR.**—C. J. CULLEN, Jersey City, N. J. This motor is more strictly adapted for use in connection with automobiles. The construction is simple and the motor, which is mounted to rotate with the driving axle, comprises a plurality of cylinders, the pistons in diametrically opposite cylinders being so connected with a stationary crank-shaft that there will be practically no dead centers upon the rotation of the motor. A simple form of compensating gear is provided for difference in travel of two traction wheels while turning corners.

## Miscellaneous Inventions.

**CHECK-PERFORATOR.**—MAXWELL KEANE, New York, N. Y. This check perforator provides a means whereby figures may be readily punched into the body of the check so as to protect it against changing the amount of the check. The device comprises a base-plate having a series of perforating teeth and a lid hinged to the plate which will fold flush upon the base-plate and thus cause perforation of the check.

**VAULT-LIGHT.**—A. DE MAN, New York, N. Y. This vault light is more especially designed for illuminating subways, basements, vaults, and the like, and is arranged to avoid the frequent breaking or chipping of the glass lenses as heretofore employed and to ensure full utilization and distribution of the rays of light to properly illuminate the underground chamber.

**ICE-RUN.**—H. D. SIMPSON, Coxsackie, N. Y. This invention provides an improved ice-run for stowing blocks of ice alternately into adjacent rooms in an ice-house without danger of injuring the blocks. By the use of this

invention the rooms may be evenly and properly filled without requiring interruption or stoppage of the elevator carrying the cakes of ice by the main run from the water below.

**RADIATOR.**—A. EICHORN, Orange, N. J. This radiator is divided into two divisions so arranged that either may be heated independently at will. It is preferred to have one section of the radiator much larger than the other and in operation to keep the smaller heated continuously and then, if maximum heat is desired, to adjust the parts so that the larger section also may be heated.

**FOUNTAIN-COMB.**—J. R. HARRISON, Barnwell, S. C. This invention provides an anti-septic fountain-comb especially adapted for the hygienic treatment of the scalp and hair, and for washing the scalp and removing the dandruff while combing the hair. The construction is such that when the teeth are brought in contact with the scalp any hygienic fluid carried by the body of the comb will be automatically discharged at the tip of the comb-teeth and brought into direct contact with the scalp.

**PRODUCTION OF PLASTIC ARTICLES.**—E. LOTTIER, West Hoboken, N. J. Mr. Lottier hereby provides certain new and useful improvements in the production of plastic articles, such as boot and shoe heels and various other articles heretofore mainly formed of leather and like material. A heel thus formed will be found very durable and may be readily nailed or otherwise fastened in position on the boot or shoe.

**COMPUTING-CHART.**—L. B. MANLEY, Duluth, Minn. This chart is particularly adapted for use in insurance offices, banks, and the like, and provides a simple means whereby the number of days between any two given dates may be quickly ascertained, at the same time indicating the per cent of the annual premium earned by a policy for the said number of days. In addition to this, indices are provided in connection with the device, referring to numbered lines in cancellation tables.

**PEN OR PENCIL-HOLDER.**—J. S. MCCLUNG, Pueblo, Colo. In public schools it is considered of advantage for the preservation of the health of the scholars to provide each one with a pen and pencil for individual use and to require the rule against indiscriminate use of such instruments to be strictly observed. The object of this invention is to provide a holder for holding a number of pens or pencils separated and clearly distinguished from each other by suitable designating characters, so that each pupil will be enabled to quickly select his individual pen or pencil at the opening exercises and return the same correctly within the holder at the end of the day.

**WRENCH.**—T. H. CAHILL, Terra Alta, W. Va. In this wrench the movable jaw may be quickly locked in any desired position and can be easily released for adjustment to another position, as is frequently desired in the use of monkey wrenches. The parts are simple in construction, easily operated and not likely to get broken or out of repair.

**TORPEDO-SHELL PROTECTOR.**—J. M. HATFIELD, Corning, Ohio. The invention is an improvement in devices for use in connection with oil-well torpedoes, being designed to provide a protector applied to the torpedo shaft and to operate as a guide for the same in passing the shell through the casing of the well, whereby to avoid the friction and jars incident to such operation.

**BURNER.**—J. L. JONES, JR., Dallas, Tex. An improved burner is hereby provided for use in fireboxes of boilers and other apparatus more especially designed to burn crude oil. The burner is arranged to develop a constant flame for producing a high heat in the firebox, at the same time insuring complete combustion without the production of smoke and obnoxious unburned gases.

**SHEET-METAL PIPE.**—F. L. FILSON, Point Pleasant, W. Va. Mr. Filson provides a simple means for securing the edges of stove-pipes together, so that accidental separation of one joint from another will be practically impossible. The pipe is what is termed as "nested" pipe, because, for convenience in transportation, the edges of the sections or joints are to be left open, so that several joints may be placed one within another.

**BOOM RIGGING.**—F. V. NIELSEN, San Francisco, Cal. Ordinarily booms swing at their inner ends against the mast and iron or other metal sheets are secured on the masts to take the wear. Water getting beneath these plates rots the masts and in endeavoring to avoid this injury Mr. Nielsen provides an improved construction which will efficiently support the boom and permit the movements thereof in various directions required.

**KNOCKED-DOWN BANANA-SHIPPING CRATE.**—J. CONRAD, Chicago, Ill. The invention provides for the compact disposition of the parts comprising the crate in shipping the same back to the owner, thus effecting economy in transportation charges and enabling a large number of crates to be stored in a car or other place. The crate is designed to be quickly and easily expanded for service, and will not collapse when loaded.

**STRIP FOR SECURING GLASS PANES.**—J. SWANNELL, Red Bank, N. J. Mr. Swannell is the inventor of an improved means for securing glass panes and analogous objects in

position, more particularly in windows and similar structures. The construction of the strip is such that it may be conveniently used for any thickness of glass.

**MIRROR-HANGING.**—J. G. ALLEN, Uby, Mich. The invention relates to improvements in devices for hanging and supporting mirrors and it aims to provide a simple means for holding in a main frame a mirror at any desired angle. Another object is to provide in connection with the main frame devices for holding various articles.

**DESIGN FOR SHADE-CLOTH.**—J. H. WRIGHT, New York, N. Y. The design consists of serpentine open-work scroll-figures extending over a mosaic background and irregular lines of circular figures between the said serpentine figures.

**PENCIL AND SHARPENER THEREFOR.**—R. Y. CORMACK, Jamaica, N. Y. Certain new and useful improvements are provided in this invention for pencils and pencil-sharpeners, whereby the sharpener forms a fixture of the pencil to permit the user to quickly and conveniently sharpen the pencil and allow convenient adjustment of the sharpener on the pencil as the latter wears away.

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