

RECENTLY PATENTED INVENTIONS.

Electrical Devices.

SAFETY-ALARM DEVICE FOR MARINE VESSELS.—M. SHEPARD, Edgartown, Mass. The main feature of this improvement is a ball-bearing rod projecting below the hull. When the rod's lower end contacts with the bottom, the pressure against it is increased above the pressure required to hold the rod vertically at other times. This increase gives movement to the rod which makes an electric circuit and sounds an alarm upon the vessel. The circuit closing arrangement and spring setting device are in a cylinder within the hull which carries at its lower end the ball and rod. These parts and the alarm constitute the apparatus which is telescoped into a cylinder and valve secured to, and opening through the hull for safeguarding purposes.

ELECTRIC PROGRAM-CLOCK.—J. W. PORTIS, Bules Creek, N. C. The invention is in the nature of a signaling clock designed to ring vibrating electrical bells at various points and at various intervals for schools, colleges, factories, and such other institutions where a daily program is necessary. The device has three or more automatic circuit-switches, to one of which is connected by wires a large electric bell. From other switches lines run to which bells are attached in various rooms. These are all operated from one battery and this battery-circuit is never closed except while ringing signals on one of the lines.

MINIATURE TELEGRAPHIC INSTRUMENT.—B. I. LEVI, New York, N. Y. In the sounder for this instrument is the combination of a board with screw-holes and countersinks, a sounder mechanism with a base-plate and supports for a movable armature, screws engaging the base-plates and supports for holding them together, the screws with heads normally engaging both the board and base-plate so as to space them apart, and screws engaging the board and base-plate, the screws with heads engaging the countersinks upon the under side of the boards and connecting the board and base-plates together so as to exert pressure upon the screw heads.

Engineering Improvements.

ROTARY ENGINE.—M. A. RICE, Los Angeles, Cal. The object of this invention is to provide a rotary engine which is arranged to insure easy running, to allow of cutting off the motive agent at any desired point; to permit reversing the engine, to prevent end-wise thrust of the piston in the cylinder and to utilize the motive agent expansively to the fullest advantage.

PARALLEL ROD FOR LOCOMOTIVES.—C. HEUSTON, Benson, Ariz. The object in this improvement is to provide a parallel rod for locomotives, arranged to insure a direct transmission of the power from the piston to the front and rear driving-wheels and to avoid over-heating of the pivotal connection between the main rod and the parallel rod.

Heating and Lighting.

SPREADER FOR OIL-BURNERS.—H. P. AKERS, Crisman, Indiana. The present invention refers to railroad signal lamps and the like; and the object is to provide a spreader for oil-burners which is simple and durable in construction, very economical in the use of oil, and arranged to properly spread the flame without causing smoke, and without allowing dirt to accumulate in the spreader.

SAFETY-LAMP.—G. W. REILLY and C. A. PHILLIP, Wichita, Kan. The invention is an improvement in that class of lamps which are adapted for burning hydrocarbon oils and are provided with a chamber adapted to contain a substance which is non-combustible and which will serve in case the lamp is broken to extinguish the fire due to ignition of the oil. The glass lamp chamber is provided with a horizontal partition formed integrally with and also made thinner than the chamber or body, and thus made easily frangible.

Machines and Mechanical Devices.

LOOM.—E. VAHLE, West Hoboken, N. J. The object of the improvement is to provide a loom for weaving all kinds of textile fabrics and arranged to carry double-up weft-thread through the open shed by a spoolless shuttle, to produce a fabric having double weft-threads in each pick, the arrangement permitting the production of plain goods as well as figured goods with the aid of a jacquard.

BEARING FOR DREDGING-MACHINE.—P. SMALL, Oroville, Cal. In this instance the purpose is to provide a bearing for dredging-machines, more particularly a bearing for the shaft on the free end of the beam, the arrangement being such that any sand passing into the bearing during the dredging operation is quickly and continually washed out to prevent the same from cutting into the bearing to the detriment of the proper working of the apparatus.

WINDMILL-PUMP COUPLING.—C. W. DECKER, Charles City, Iowa. In this patent the invention is in the nature of an improved windmill-pump coupling. The object is to make it possible to throw the pump-handle in gear and the windmill out of gear, or vice versa, by means of the hand-lever alone, the same being intended to provide a pump which

can be made at small cost and great simplicity of parts.

Of Interest to Farmers.

PINDAL-PLANTER.—A. TYLER, Quitman, Ga. Mr. Tyler's object in this case is to provide a machine of simple and durable construction which while especially adapted for planting the pindal or peanut will reliably deposit in the ground all kinds of seeds and the like ordinarily planted in hills separated a predetermined distance from each other.

ANIMAL-CRATE.—W. A. STEWART, Wolcottville, Ind. In this invention the object in view is to provide a construction which may be used to contain a number of animals, such as hogs or pigs, the crate being equipped with a tray in which one animal at a time may be laid and held in a position convenient for operation, such as pulling a tusk from the mouth of a hog.

HARROW.—S. PREJEAN and G. C. BELLOCQ, Belle Alliance, La. The purpose of this invention is the provision of a harrow which will have a wheeled support to and from the field and during operation and means whereby it can be kept in one position while rotating relative to the rows between which cultivation is to be effected. In operation the harrow will not jump from side to side, as is customary in ordinary harrows. This relieves the team from unnecessary encumbrance and enables it to direct all energy to the draft of the machine.

Pertaining to Vehicles.

BICYCLE-SUPPORT.—M. HENOCI, Laporte, Ind. This improvement has particular application to a portable support to be attached to the front of the machine. The majority of supports which support the wheel upright at four points tends to permit the wheel to rock when placed upon uneven surfaces, thereby presenting an inclination toward the overturning of the wheel when the support receives a jar or shock; but by elevating the front wheel slightly from the ground and providing a three-point support formed by the two arms of this device and the rear wheel the tendency to overturn is obviated.

Miscellaneous.

EYEGLASSES.—W. H. WEASER, Pittsfield, Mass. In this case the object is to provide new and improved eyeglasses arranged to insure a firm connection between the bow-spring, the nose-guards, and the studs; to prevent loosening of the bow-spring or nose-guard, and to allow of adjusting the lenses up or down relative to the nose-guards.

SPUR ATTACHMENT FOR STIRRUPS.—C. L. PORTER, Marshall, Tex. In this construction a body-bar having an offset carrying a rowel is so hinged at its forward end to the stirrup that when the latter is not in use the bar will hang perpendicularly downward, but when the foot is placed in the stirrup the bar will be brought to a horizontal position, the offset carrying the rowel fitting snugly to the rear of the boot heel, enabling the spur to be as conveniently brought into action as if the spur were attached to the boot as ordinarily, but leaving the boot free from the spur at the moment of dismounting.

FAN ATTACHMENT FOR SEWING-MACHINES.—O. G. OGDEN, Louisville, Ky. In this case the object is to provide a construction by which the fan attachment can be readily connected with and disconnected from the fly-wheel of the machine and to so construct the fan-supporting devices and the connecting means for securing the same to the fly-wheel that these means may be adjusted to one side or the other of the fly-wheel and can be turned in the knockdown position of the parts to secure a compact arrangement for shipment or storage.

CANDLESTICK.—W. NICOL, 52 Tay Street, and J. H. STEWART, 47 Tay Street, Invercargill, New Zealand. The invention refers to candlesticks, its object being to provide one that candles of any size may be held equally firm in the holder or socket, the candle easily raised as it burns down that almost the whole may be burned, and the spring fixed from the side of the bowl facilitating cleaning. The bottom of the bowl is domed inward, so that should the wick fall through alight, any grease about it will quickly leave it and its burning can injure nothing on which it stands. The handle is attached to the bowl in such a way that any unusual pressure on the spring will not break it. These inventors have secured another patent wherein the invention provides a candlestick arranged that candles of any size may be firmly held in the socket of the candlestick, the candle easily raised as it burns down, enabling most of it to be burned.

MARKING-BOARD.—F. MOEHLE, Mason City, Iowa. In this instance the improvement relates to a device for facilitating marking and cutting glass, cardboard, and like articles. By means of the invention a sheet of glass, for example, may be readily marked to the desired form and dimensions and cut, or a sheet of cardboard may be similarly treated. For example, a mat for pictures may be marked and cut with any desired exterior and interior marginal form.

WATCH-GUARD.—W. F. MARTIN, New York, N. Y. This invention comprises a peculiarly-constructed guide intended to have

the chain of the watch run through it, so that when a thief grasps the watch by the chain the watch will strike the guide and cannot be withdrawn, this arrangement not interfering, however, with the withdrawal of the watch by grasping the watch itself, in which case the chain will run idly through the guide.

WRITING-TABLET.—H. V. LOUGH, North Plainfield, N. J. The improvement has reference to those tablets which are formed of a number of semistiff sheets connected by a pivot or the like, so that each sheet may be written on and each conveniently referred to when desired. Ordinarily these tablets possess the disadvantage that the sheets or cards bear a fixed relation to each other—that is to say, their relative positions cannot be changed, so as, for example, to place the top sheet on the bottom, or vice versa.

NON-REFILLABLE BOTTLE.—M. M. KEARNEY, Scranton, Pa. Mr. Kearney's purpose is to provide a construction of bottle—particularly a construction of the neck of a bottle, stopper, and valve—which will prevent the possibility of refilling the bottle after the original contents have been poured out. The bottle in its entirety is simple and readily understandable to any person of ordinary intelligence.

MATCH-SAFE.—F. KING, New York, N. Y. The purpose in this case is to provide a safe or receptacle for matches so constructed that the matches can be removed singly only, one after the other, and to render such removal convenient and expeditious; also, to furnish exteriorly-operated means for insuring the matches being compactly and accurately fed to the outlet of the match safe.

OVERSHOE FOR HORSES.—J. E. HOFFMAN, New York, N. Y. The object in this case is to provide an overshoe of simple and inexpensive construction, that may be readily secured to the hoofs of horses or other draft animals and as easily removed therefrom and that when in place will effectually prevent the animal from slipping on icy or otherwise slippery pavement.

MUSICAL INSTRUMENT.—H. E. HIBSHMAN, Newark, N. J. In this patent the invention relates to reed instruments of the mouth-harmonica type, and its object is to provide a new and improved instrument which is simple and durable in construction and arranged to enable a person to properly execute a piece of music with the aid of a perforated music-sheet without requiring practice or knowledge of music.

DEVICE FOR EXHIBITING GOODS.—M. J. BEBB, Xenia, and E. G. EATON, Athens, Ohio. In this patent the invention is designed for suspending and displaying goods in stores or shops from the ceiling or any other fixed overhead support, and is particularly useful for displaying handkerchiefs, ribbons, hosiery, underwear, belts, neckwear, laces, shirt-waists, towels, etc., to the best possible advantage.

APPARATUS FOR FORMING CEMENT WATER-TANKS.—J. T. DONAHOO, Edgar, Neb. Hand labor is usually employed for forming tanks that are classified as apparatus for forming cement water-tanks; and it is the object of the inventor in this instance to provide an apparatus by which the work may be quickly facilitated and the tank thereby finished in a shorter time as well as in better form and also at the least cost.

DEVICE FOR FILLING FOUNTAIN-PENS.—L. FISK, Woodcliff, N. J. Provision is made in this invention for the easy filling of the pen by merely holding the mouth of the pen-reservoir to the spout of the instrument, and upon operating this instrument the ink is caused to flow into the pen-reservoir, all of this being effected without danger of spilling the ink, as repeated operations will not overflow the pen-reservoir.

SUSPENSORY-BANDAGE.—E. R. DRAKE, De Land, Fla. Mr. Drake's invention is an improvement in that class of suspensory bandages having a leg-band connecting the scrotal bag or pouch with the body-band. He has devised an improvement in such leg-bands and they may be worn with entire comfort, besides sliding more easily and being more durable than those constructed and arranged in the usual manner.

MIRROR DECORATING AND ILLUMINATING DEVICE.—SABELLA G. DEHERTY, New York, N. Y. The present invention refers to decorative lighting by electric lamps of the incandescent type; and the object is to provide an illuminated garland for use on mirrors, walls, interior and exterior balconies, and other objects and arranged to heighten the ornamental effect of the object as well as provide the desired illumination of the surrounding objects.

SCISSORS-HOLDER.—A. E. MOORE, Winnipeg, Canada. The prime object in this case is to provide means for holding the scissors within convenient reach of the user and by which the scissors may be held securely and readily engaged with or disengaged from the holder. To this end the invention comprises a body, gripping-fingers carried thereby and serving to hold the scissors, and a device at the rear of the body for attaching it to the clothing of the wearer.

FLASH-LIGHT ATTACHMENT FOR CAMERAS.—J. H. HAMMER, Marquette, Mich. The purpose in this case is to provide a device

for direct connection with the shutter of a camera having means for supporting and exploding a flash-light charge and automatically and simultaneously operating the shutter, which may be brought about by direct connection with a cylinder operated at the time of the explosion by the flash-light material and connected by a tube with the shutter or by the automatic compression of a bulb in tube connection with the shutter.

RAPID-FIRE PISTOL.—W. B. KNÖBLE, Tacoma, Wash. This pistol is specially designed for army and navy use. Officers object to the 38-caliber revolver's lack of shocking power. It being impossible with the length of barrel practicable in a pistol to obtain velocities with small bores sufficient to make up for lack of energy and stopping power, the only way to acquire the power lies in the use of a larger, heavier bullet having greater striking surface and propelled with a velocity unobtainable from a revolver. This powerful weapon does not exceed small bores in weight and size, and for use as a pocket arm is smaller, lighter, and more compact than magazine pistols of similar caliber.

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