

RECENTLY PATENTED INVENTIONS.

Electrical Devices.

CABLE-LAYING IMPLEMENT.—W. C. STEVENS, Melrose, Mass. The invention relates to improvements in implements for laying electric cables or conductors either on the surface or below the surface of the ground, an object being to provide a device by means of which cables or the like may be quickly laid and covered when under ground, thus making the device particularly useful in military operations and for private and municipal uses.

RENT-COLLECTING MEANS FOR TELEPHONE SERVICE.—J. L. PEAVEY, Meridian, Miss. Mr. Peavey's invention is in the nature of an improved means especially designed for collecting the regular monthly, quarterly, or annual tolls from a subscriber for telephone service, of a simple and inexpensive character, that can be readily coupled up with the ordinary telephone-signal-bell housing, and which can be adjusted for use without disorganizing the usual arrangement of the telephone service.

ELECTROMAGNETIC APPARATUS.—J. McINTYRE, Jersey City, N. J. The aim of this invention is to provide an apparatus designed for stimulating and vitalizing live animal, live vegetable, and other objects and matter by saturating, for instance, the whole human or animal object or the bed-soil of the plant-bed and the plants uniformly with electricity in its normal condition magnetism by the employment of frequency magnetism derived from an electric cable-coil in circuit with a source of variable electric energy or frequency electric current.

Of Interest to Farmers.

WIRE-STRETCHER.—J. MCD. SHAW and S. B. GOODE, Fannin, Miss. The object of this invention is the provision of a construction which will be simple, efficient, and cheap to manufacture and which can be made by an unskilled mechanic out of material which is usually at hand on any farm. It combines in one structure a wire-stretcher and a wire-splicer, as well as a post-puller. It can readily be knocked down and formed into a compact bundle to be transported from place to place.

INCUBATOR.—W. H. PHILLIPS, Belleville, N. Y. In this patent the invention relates to improvements in incubators for hatching the eggs of fowls, an object being to provide an incubator with a novel means for maintaining a constant circulation of air at an even temperature and in a proper moist condition.

TONGUE-SUPPORT AND SIDE-DRAFT CHECK FOR GRAIN OR GRASS HARVESTERS.—C. F. ORTMAN, Martinton, Ill. This invention relates to means for supporting the tongue or draft pole of a grain harvester and binder or a wide-cutting grass-mower, and has for its object to provide novel details of construction for a device of the character indicated, and particularly for a former patent granted to Mr. Ortmann, which render this device more simple and effective.

MOTOR-PLOW.—S. E. KURTZ, Sac City, Iowa. One of the objects in view of the inventor is the provision of a self-contained agricultural implement in which the motor mechanism is so combined with the plowing or soil-stirring devices that the machine is capable of propelling itself and digging the soil at one and the same operation, these ends being secured without the use of traction wheels or other motor-driven devices that are liable to slip on the ground and fail to secure the draft necessary to make the gang of plowing devices operate in the soil.

EGG-PRESERVING CASE.—N. A. WIEMAN, Troy, Ohio. This is an improvement in the class of cases in which the eggs are held in cells in a case suspended on trunnions or journals whereby the case can be turned from time to time to prevent the yoke from settling to one side of the shell, in which position it soon spoils. Cell-partitions permit the eggs to be compactly stored, firmly held, and thoroughly ventilated and turned over without shock or jar.

CANE-CARRIER FOR SUGAR-MILLS.—H. FROELICH, Lihue, Hawaii. The more particular object in this case is to cause a uniform and even feed of cane to the crusher, whereby dispensing to a great extent with the necessity of manipulating the cane by hand. There are certain details of mechanism whereby the deposit of cane upon the carriers is effected uniformly and automatically and whereby the distribution of the cane after reaching the carriers and before reaching the crushers is rendered as uniform as possible.

Of General Interest.

APPARATUS FOR MAKING MOLDED COVERINGS.—J. W. WALLACE, Rutherford, N. J. The aim of this inventor is to provide an improved apparatus for making molded coverings for use on elbows, T's, valves, and other fittings on steam-pipes, brine-pipes, and other pipes and articles requiring insulation, the arrangement being such that the coverings can be quickly and cheaply manufactured and when finished can be conveniently applied and securely fastened in position.

CREDIT-BOOK.—T. G. KNIGHT, New York, N. Y. In this instance the improvement re-

lates to blank books for the use of business-houses; and the object of the inventor is the provision of a new and improved credit-book arranged to contain credit information normally hidden from view, but readily accessible to the user of the book. It is preferred to have the leaves arranged in book form; but this may also be kept individually.

JEWEL-SETTING TOOL.—J. McN. STEELE, Atlanta, Ga. The invention is particularly adapted for the setting of jewel-pins in the roller-tables of balance-wheels. The work can be done without removing either the hair-spring or roller-table, the balance-wheel and jewel-pin are held firmly in place while the shellac is flowing and setting, and the correct positioning of the jewel-pin is assured. Moreover, the heat can be so applied that it will raise the temperature of the balance-wheel but slightly, and thus avoid any injury from this source.

FOLDING UMBRELLA.—T. SUSEMHL and R. L. SUSEMHL, New York, N. Y. This invention has reference to umbrellas which may be folded for convenience in carrying, particularly when traveling. The handle sections being assembled the runner may be drawn down, and at the same time a slight shake will cause the outer rib-sections to fall into alignment with the inner sections. The frame may now be raised by the runner in the usual manner. The umbrella is closed in the customary way; and to fold the device the operations are substantially reversed.

MANUFACTURE OF CONCRETE ARTICLES.—J. L. SHOUGH and R. W. LEVITT, Somerset, Ohio. In this case the object of the invention is to provide certain new and useful improvements in machines for molding concrete articles—such as building-blocks, caps, sills, and the like—whereby the articles are pressed accurately to the desired shape and provided with an ornamental face.

SHOULDER-BRACE AND SUPPORT.—ANNIE STINTON, North Williamstown, Victoria, Australia. The invention is an improvement in shoulder-braces and supports, and has for its object to provide a construction designed to support the body, assist in the carriage, and supplement or replace corsets. In practice the straps may be of webbing, leather, or other suitable material, and buckles may in some instances be used in lieu of tapes as fastenings; but tape or ribbons are preferred, because of the ease with which the user can secure and adjust the device upon the body.

WATCH-FOB-ATTACHING DEVICE.—S. J. PERRY, Spokane, Wash. Mr. Perry's object in this invention is to provide a device that will be simple in construction and so arranged as not only to serve for attaching a fob chain or ribbon to a watch, but to secure the watch in a garment-pocket, thus preventing loss of the timepiece by accidental dropping out of the pocket or through the manipulations of a pick-pocket.

REGISTERING-TARGET.—J. N. MICHEL, New York, N. Y. The object of the invention is to produce a target of improved form at which a projectile, such as a ball, may be thrown by hand and to provide in connection with such a target a registering mechanism by means of which the point at which the projectile strikes may be indicated.

TEMPORARY BINDER.—S. H. McVITY, Bryn Mawr, Pa. In carrying out the invention Mr. McVity has in view so constructing the binder that it will be adapted to retain a number of periodicals without tearing or marring the same, thus enabling the periodical to be removed from the binder at any time and permanently bound. He provides a binder which will always leave a full view of every part of the periodical; a great advantage over binders now generally in use, in which the middle portion of the periodical is obscured by binder-fastenings.

METAL STRUCTURE AND ANCHORAGE THEREFOR.—J. L. HOLMES, Butte, Mont. The aim of the inventor is to provide a structure and anchorage therefor more especially designed for forming reservoirs, dams, and the like and arranged to withstand the pressure of the water without the use of abutments and other costly masonry and to allow of quickly erecting the structure and in the case of a dam to permit its erection without interfering with the flow of the water.

HYGROMETER ATTACHMENT.—J. H. GERRER, Elrene, Oklahoma Ter. The intention of this inventor is to provide an attachment to be applied to glass inclosures in such a way as to indicate the degree of moisture inside without having to open the inclosure—that is to say, the hygrometer is so formed as to be attached directly to the inside surface of the glass and to show the hygrometric scale throughout the glass, so that it may be conveniently read from the outside of the case or inclosure and without taking up any valuable space within the case. Designed more especially for cigar-cases, it may be for use in incubators, hothouses and the like.

MUZZLE.—W. A. FOSTER, Goreville, Ill. The invention refers particularly to improvements in muzzles for horses, mules, or the like, the object being to provide a muzzle of simple and light yet strong and lasting construction that may be readily adjusted as to size and when in position will not interfere with the portion of the bit in the animal's mouth and also to provide a close-fitting muzzle which cannot be removed by the animal when in use.

PIANO DAMPER-ACTION.—W. A. EARHART, Pittsburg, Pa. In this patent the object

of the invention is to provide a new and improved piano damper-action for both grand and upright pianos arranged to automatically damp the strings not sounded at the time to keep the unused strings from vibrating in unison with the strings sounded by the hammers.

SWING.—H. H. DEFRANCE and C. O. GARISON, Golden, Col. The swing is suspended from a carriage running on a track supported on a frame. It further consists of means for locking the carriage at one end of the track and holding it there until the swing moves to a predetermined height, when it automatically unlocks the carriage by its momentum on the forward movement after the swing has passed a perpendicular line through the center of the carriage moves the carriage to the other end of the track, where it is again locked in a similar manner.

MAIL-POUCH FASTENER.—A. L. DAVIDSON, Lesterville, S. D. Mr. Davidson's invention has reference to novel means for the purpose stated, and has for its object not only to improve and simplify the fastening device, but to provide means whereby the pouch or sack may be quickly closed and secured or locked closed in one operation.

GAME APPARATUS.—W. H. CLAGETT, New York, N. Y. This invention relates to a game apparatus particularly adapted for indoor use and by which a friendly racing game may be played by two or more players and also through the medium of which the various possibilities in a running, trotting, or steeplechase race may be made apparent and properly counted.

PLAYING ATTACHMENT FOR MUSICAL INSTRUMENTS.—J. A. CAMERON, New York, N. Y. The aim of the inventor is to produce an attachment which can be connected with an automatically-playing instrument in such a manner that the player is not depending upon any controlling device, such as a perforated music-sheet, and whereby a person even without ability to play on the keys in the usual way can control the playing of proper notes by means of a mouth-piece somewhat resembling an ordinary mouth-harmonica.

DISPLAY-CARD HOLDER.—C. C. GOETZ, Natchez, Miss. While this device is intended primarily as a holder for a display-card, it affords means also for supporting a small bolt of the material to be sold, from which bolt or roll small samples of the material may be detached. It combines two very useful features, namely: marks for the identification of the goods, and a suitable and handy receptacle for the samples. The fixtures are easily attached to the bolts and sample after sample may be cut without removal of goods from the shelving.

HAIR-DRYING COMB.—A. WALLACE, JR., New York, N. Y. The invention has for its object the provision of an effective device by means of which women may conveniently dry their hair after shampooing or washing the same without the inconvenience of exposing the hair to air-currents or to the action of the sun, and without excessive rubbing with towels or the like.

NON-REFILLABLE BOTTLE.—F. L. SHORT, St. Louis, Mo. This device provides a closure which may be manufactured at a low figure, will not get out of order, and effectually prevents the refilling of the receptacle with liquid after the original contents have been poured out. Moreover it does not materially interfere with the free delivery of the liquid. After emptying the bottle to which the device is applied the former may be broken to release the closure, which may thus be used repeatedly.

SHOE-SUPPORTING BRACKET.—F. J. SIMS, New York, N. Y. The principal object of the invention is to provide a bracket formed of wire and characterized by great cheapness, while possessing great durability and high efficiency. A further object is to provide a bracket which is attractive and will grip a shoe very securely without injuring or marring the shoe in any way.

MILEAGE-DETAChER.—J. SHARKEY and J. A. MENEFEE, Eaton, Ohio. The purpose of the inventors is the provision of an instrument for measuring and severing railroad-scrip, particularly mileage-scrip, and to so construct the instrument that it will be light and compact and may be conveniently carried, which will be accurate in operation, and can be readily and expeditiously operated.

Heating and Lighting.

INCANDESCENT GAS-BURNER.—A. A. PRATT, New York, N. Y. The inventor's object is to provide a burner arranged to allow minute adjustment for producing a proper mixture of the gas and air, especially by preventing loss of force in the stream of the gas and a swaying thereof from an axial direction to prevent carbonization of the mantle and back-flashing of the flame, also to regulate the amount of the light more or less without using the ordinary cock of the gas-fixture.

STEAM-HEATING APPARATUS.—W. SHURLEFF, Moline, Ill. In this instance the inventor has devised an improvement comprising means connected with the usual steam-heating apparatus whereby air and surplus steam are drawn off from the radiators and boiler automatically, this operation occurring intermittently at any predetermined steam-pressure.

FURNACE ATTACHMENT.—G. WOLF, New

York, N. Y. This invention relates to improvements in attachments for heating-furnaces for supplying atmospheric air to the interior or combustion chamber of the furnace, an object being to provide a device for supplying air in a highly-heated condition directly over the products of combustion, whereby there is a complete mingling of the air with the gases, the combustible gases being burned.

GAS-GENERATING FURNACE.—J. H. FOSTER, New York, N. Y. The object of this invention is to secure a perfect impact of the products of combustion on the boiler-tubes, and to provide a perfect combustion at high temperature, insuring a perfect oxidation of the fuel. The prime features are to provide a burner or rotor that fires its gases parallel with its base and against highly-heated walls, which by radiation and deflection conduct the products of combustion uniformly to the boiler, dispensing with all baffle-plates, as the side walls act largely in such capacity.

Household Utilities.

DISAPPEARING WINDOW.—J. J. MULLER, New York, N. Y. In this case the improvement refers to the construction of window casings and sashes, together with their attachments, the object of the invention being to produce an arrangement whereby the sashes may disappear in the casement of the window or in a wall in order to increase the area of the opening of the window.

COMBINED SHADE AND CURTAIN HANGER.—T. V. EDWARDS, St. Louis, Mo. The inventor employs substantially duplicate horizontal members with means for attachment thereof to opposite sides of the facing of an ordinary window-frame and having stationary supporting means for the ends of an ordinary shade-roller. Mounted upon said horizontal members are adjustable members, also having means for supporting ends of a roller or the like, while additional adjustable members are mounted upon the horizontal members and with means for supporting the ends of a curtain rod or pole. The elements employed are strong, durable, light in weight and easily applied for use.

METALLIC WINDOW FRAME AND SASH.—P. A. TRACY, New York, N. Y. The invention has for its object the provision of a thoroughly fireproof window-frame and sashes cooperating therewith of durable and simple construction, in which the parts are so designed and arranged that the window-frame occupies a minimum amount of space and is adapted for use under a great variety of conditions.

Machines and Mechanical Devices.

LIFTING AND DROPPING MECHANISM.—A. D. DUCHOW, Senora, Cal. Mr. Duchow's invention relates to improvements in lifting and dropping mechanism—such, for instance, as the lifting and dropping of weights for pile-driving, drop-hammers, pumps, well-drills, etc.—an object being to provide a machine of this character that will be simple in construction and positive in action.

MACHINE FOR PLACING BRUSH MATERIAL IN BRUSH-BACKS.—C. W. SMITH, New York, N. Y. This inventor provides a machine practically automatic, wherein the brush-back is manually presented to receive brush material, and so constructs the machine that it separates bunches of material from the mass contained in the general receiver and which conveys the separated bunches to staples previously cut by the machine and placed in receiving position. A fork acts to force the brush into the staple, certain means close the staple over the bunch at a point between ends of the bunch. The fork delivers a bunch to a staple and finally combs the brush material upward from the staple. Nippers engage the combed bunch and hold it in combed position for a predetermined time.

SAW-TABLE.—C. SEYMOUR, Defiance, Ohio. Mr. Seymour's object in this invention is to provide a new and improved saw-table arranged to permit convenient and accurate adjustment to allow the saw band or blade of the swinging-machine to make straight or beveled cuts on the work. The present is a division of the application for Letters Patent of the United States formerly granted to this inventor, and it has many advantages in operations which include unlocking, swinging, locking or tilting of the work-table.

TYPE-WRITING MACHINE.—S. A. THOMPSON, New York, N. Y. The machine comprises a base upon which is mounted a fixed support for a type wheel, the support being of special construction whereby the type wheel is held inclined with reference to the platen and also whereby the same is returned to normal position on each release of pressure applied thereto for spacing purposes. The platen and paper-feed devices are mounted in a traveling carriage comprising a movable member constituting a guard for the paper passing over the platen, the member being of special embodiment whereby longitudinal step-by-step movement of carriage is effected and also whereby paper-feed devices are operated.

MACHINE FOR IMPRESSING OR EMBOSSEING AND DRYING STEREOTYPE-MATRICES.—F. SCHREINER, Plainfield, N. J. Stated in general terms, the object of this invention is to provide a machine characterized

