

RECENTLY PATENTED INVENTIONS.

Electrical Devices.

ELECTRIC DISPATCH-BOX FOR OVERHEAD LINES.—R. T. PISCICELLI, Naples, Italy. The present invention relates to some improvements in the construction of the dispatch-boxes and of overhead lines to be used in the system of electric mail-service described in a former patent application, which improvements are intended to diminish the resistance of the line and of the air to the translation movement of the dispatch-boxes of the type described in said specification, at the same time diminishing also the trepidations of the line. Many of the improvements may find application in cases where electrically-propelled vehicles shall run at very high speed.

TRACK STRUCTURE.—L. STEINBERGER, New York, N. Y. Mr. Steinberger's invention relates to track structure and admits of general use, but is peculiarly applicable where it is desired to have a rail mounted movably upon its support. His invention is of special value in connection with electric railways, and especially as third rails used for the purpose of distributing electric currents to movable vehicles.

TROLLEY.—W. R. COOPER, East St. Louis, Ill. The trolley comprises a trolley pole consisting of two telescoping members so arranged that to reverse the car it is not necessary to swing the pole around in the usual manner but the motorman needs merely to reverse the motor when the pole will shorten due to the telescoping members sliding one upon the other and it will then lengthen out as it assumes its rearward inclination.

TROLLEY-WHEEL.—J. J. BOUCHARD, Bradford, Pa. In this patent the invention has reference particularly to the lubricating devices of trolley-wheels and the like; and the object of the inventor is to produce an improved construction of such wheels, having in view the efficient lubrication thereof.

Of Interest to Farmers.

FRUIT-GATHERER.—F. D. HENDRICKSON, Amboy, Wash. This invention is an improvement in that class of hand fruit gatherers or pickers which consists of a receiver or skeleton basket suspended and adapted to oscillate in the forks of an extended handle. Means are adapted to receive and detach fruit conveniently and for preventing injury thereto.

ENSILAGE-CUTTER.—M. W. DREW, Bliss, N. Y. In the usual cutting-wheels there are openings at the back of the knives, and while operating the husks or the like pass into these openings, wind around the wheel-spokes, and clog in the corners, thus throwing the wheel out of balance, and consequently requiring an increased power to run the machine. Mr. Drew's wheel obviates these difficulties.

CORN OR GRAIN KNIFE.—L. R. TILLEY, Colorado, Texas. The invention is in the nature of a device employing clipping-blades and adapted to be fastened to the user's hand. The blades are operated by simple closing and opening action of the user's fingers. The object had in view is to provide a simple, inexpensive, and novel device of this character adapted for clipping the heads of standing corn, grain, and for other similar use.

CRATE.—J. H. WINKELMEYER, Eldon, Mo. In the present instance the inventor has made an improvement in crates, especially designed for use in carrying poultry and the like and which can be knocked down for reshipment. Among the advantages means are provided for protecting the locking-bar against damage in piling crates upon each other, and also for securing the crates in knock-down position.

PLOW-WHEEL SCRAPER.—W. J. ROBINSON, Hudson, N. Y. The aim of the inventor is the provision of a new and improved scraper which is simple and durable in construction, easily applied to any type plow, and more especially designed for keeping the peripheral face of the wheel on the plow-beam free of dirt to allow plowing to a uniform depth.

INCUBATOR.—C. E. GOSS and G. W. GOSS, Edith, Texas. When it is desired, the eggs by this improvement may be rotated, as is necessary in artificial incubation, by moving the false bottom of each tray along through the slot in the slide until the end section has been withdrawn. The eggs will all be rotated through substantially half a turn. The hinging of this section permits it to hang vertically from the tray and avoids the closing of the space between it and the walls at its side.

INCUBATOR.—W. H. HUGHES, New York, N. Y. The inlet for fresh air passed through the egg-chamber is removed far as possible from lamp and outlet of heating-casing so as not to become contaminated by fumes of burning hydrocarbon, which if in contact with the eggs would likely injure them. Casing and chamber do not communicate and no danger arises there. Distribution of air about the casing makes it properly heated, and distributors insure even heat to eggs. Two regulators control temperatures, the controlling means for both being situated over substantially the center of the egg-trays, and under influence of average conditions in egg-chamber.

FENCE-POST.—J. M. NARSH, Fort Worth, Texas. Mr. Narsh has devised a post whose central portion web is thinner than its sides, so that while it has due strength and rigidity, adapting it to be driven without bending or

buckling, the tongues for holding the fence-wires may be easily cut out of the same in process of manufacture. The post has reinforcements or filets formed at its inner angles to materially strengthen the same longitudinally and transversely. Improved braces for the post are further devised by the inventor.

PROCESS OF MAKING BUTTER.—W. A. IRWIN, Dallas, Texas. In this case the invention is in the nature of an improved process of making butter designed to increase the yield of the final product and to provide a wholesome, well-flavored, nutritious, and digestible food product for the table that shall utilize all or nearly all of the valuable constituents of the ingredients.

GATE.—W. H. FUQUA, Roswell, New Mex. This is a gate of the type in which a lever is employed to operate the gate, the lever being actuated by a pull-cord or by the passing of a vehicle. The mounts on the gate opening lever devices for releasing the latch. When the cord is pulled to actuate the gate lever its initial movement actuates the latch controlling device on said lever.

Of General Interest.

NEGATIVE-HOLDER.—A. J. WEED, New York, N. Y. The object in view in this case is the provision of an extremely simple article capable of easy application to the edge portion of a plate for holding the latter in a secure manner. A further object is to produce a holder which on application to a plate is bent in a way to produce bearing-points on which the holder when inverted may stand in a washing-bath, whereby the negative may be suspended with the film side facing downward in running water, so as to wash the film without exposing it to lodgment of sediment in the water.

TWINE-HOLDER.—R. L. WEIR, Winnsboro, Texas. The holder will always hold the end of the twine upward in most convenient position. This is attained by providing a body having a rounded bottom portion weighted with respect to the upper part of the body, so that no matter how the holder is thrown it will always roll with the weighted side of the body downward. From the upper side of the body a body is projected preferably in the form of a tube and through which the twine is drawn, so that the end of the twine always hangs from the upper end of the tube.

FIRE-ESCAPE.—H. VIIEGGE, Grand Island, Neb. This invention refers to fire-escapes and admits of general use, but is of peculiar value in cases where it is desired to enable persons to escape singly and without assistance from any source by merely descending from a door or window. The invention is in general terms somewhat similar to a former patent granted this inventor for a fire-escape.

STEREOTYPE-CASTING BOX.—F. SCHREINER, Plainfield, N. J. The object of this improvement is the provision of a box constructed in such manner that any size of plates for printing can be cast with cores or legs that will cross each other level and produce type-high plates, so that whether a small or large sized plate is cast it will have level crossing bearings which will resist printing much better than those having lengthwise-running legs, as heretofore formed.

BACKING FOR DISPLAY-BUTTONS.—D. PUDLIN, New York, N. Y. One object in this instance is to construct a backing with a continuous inwardly-turned flange at its inner edge, the flange being turned in direction of the front portion of the backing, within which flange the shank of a pin is secured and concealed, thereby producing a continuous smooth inner edge surface, materially strengthening the backing and preventing the shank of the pin from working loose and projecting at its end to detriment of surface upon which the button may be fastened, as the shank of the pin is held securely throughout its entire length.

BUILDING CONSTRUCTION.—A. MENCZARSKI, New York, N. Y. In this patent the invention relates to fireproof buildings; and it constitutes an improved structure for forming the floors and ceilings of such buildings. This construction provides a maximum dead-air space between floor and ceiling, which is very essential in preventing transmission of heat, which transmission in case of fire would allow flames to spread quickly and also in lessening the weight of construction to the minimum.

PLATE-HOLDER.—W. F. FOLMER, New York, N. Y. The inventor's purpose is to provide a plate-holder which will not leak when a slide is being introduced into the holder or is being withdrawn therefrom and to admit of both movements of the slide being expeditiously and conveniently done. A further purpose is to provide a spring or tension controlled sealing device for the slide of the plate-holder applicable without necessarily weakening the holder and which will be expansive at all times without liability of light being admitted to the plates of the holder.

WATCH-GUARD.—J. A. CRANDALL, New York, N. Y. In this patent the invention relates to a watch-guard; and its main object is to provide means which may be attached to a watch and placed in the pocket of the wearer, whereby any attempt to remove the watch from the pocket will be prevented or the notice of the wearer attracted thereto. The device is not cumbersome nor is it expensive.

METHOD OF PURIFYING WATER.—T. JONES, Acme, Texas. The invention relates to purification of water, especially for domestic uses, the more particular object being to remove gypsum and certain carbonates, together with organic substances, should any be present. It admits of general use, but is of peculiar value in certain sections where housekeepers have been annoyed to a great extent by the presence of impurities in water.

FILE.—F. C. BILLINGS, Macon, Mo. The improvement made by Mr. Billings relates to a file of that class in which a box or case for the papers is provided, this box having an open side and a spring-retained follower to hold the papers snugly yet removably in place. It is designed especially as a means for conveniently holding music-sheets in condition for ready access, but may be useful for filing papers of any sort.

TIME HAND-STAMP.—W. F. BARTHOLOMEW, New York, N. Y. The object of the present invention is the provision of certain improvements in time hand-stamps whereby the handle carrying the pointer is automatically locked against accidental movement. It relates to stamps, such as shown and described in the application for Letters Patent of the United States, formerly filed by Mr. Bartholomew.

BUILDING CONSTRUCTION.—E. MAY, New York, N. Y. The object of this invention is to produce a building construction or form which is well adapted for building floors, partitions, and for similar uses. When the cement or binding material has dried and become set a very firm and rigid structure results, and this, due to wires imbedded in the cement, is substantially reinforced or braced. The structure presents a very neat appearance, the cement not being exposed to view at the edges of the slabs.

POLE-HOLDER.—W. H. FUQUA, Roswell, New Mex. This invention is an improvement in pole-holding apparatus especially intended for holding heavy poles, such as telegraph, telephone, and other poles. It sets a pole quicker than in the ordinary way, and if bent or crooked small wedges interposed between sections and the pole tilt the pole as required. The pole is elevated about one foot from the ground so that a pole decayed in the ground is in many respects as good as new, and in applying the improvement to a pole in the ground the latter will not have to be moved in any way.

OIL-CUP.—A. UHRI and A. G. HOUCK, Florence, Col. Messrs. Uhri and Houck in this invention have for an object the provision of a cup of few and simple parts that may be more conveniently opened and closed than the ordinary cup and adapted to reliably feed thick oil or grease for lubricating purposes. The cup is specially suited for use in roasters, kilns, etc., where an oil-cup is necessarily exposed to unusual heat.

METALLIC BUTTONING DEVICE.—E. I. RAINS, New York, N. Y. The inventor claims as an object the provision of a device more especially designed for yieldingly connecting a boy's pants with the shirt-waist or blouse and arranged to readily compensate for strains, especially when the wearer bends over in a forward direction, the device yielding sufficiently to prevent breaking or tearing of connected parts.

ADJUSTABLE SUPPORT.—E. T. PALMENBERG, New York, N. Y. The intention of this inventor is to provide an adjustable support for carrying display glass plates, trays, shelf-boards, and the like and arranged to allow convenient adjustment of the support for different widths of the plates, shelf-boards, etc., and to securely hold the same in position. The invention relates to window and store fixtures.

DISPLAY-FIXTURE.—E. T. PALMENBERG, New York, N. Y. In this patent the improvement relates to window and store fixtures; and its object is to provide a display-fixture in the form of a universally-adjustable arm adapted to be moved conveniently into any desired position for the display of the goods to the best advantage.

MOLDING-FLASK.—W. MARSHALL, Lyndon, Kan. The improvement refers to a flask which, although capable of general use for molding plastic substances and casting metals, is especially applicable for the molding of rubber and composition dental plates. The principal objects are to provide a flask of this character which can be readily taken apart, which will have no projections easily breakable, and which will provide a surface which will leave ample room to work on the teeth after they are invested.

TRUNK-FASTENING.—T. J. LIVSIE, Norfolk, Va. In the present case the invention is an improvement in trunk-fastenings, being in the nature of a combined strap-fastening and lock, so arranged that the lock will hold the strap taut and the device for connecting the strap will operate as a lever in tightening the strap in the use of the device.

Heating and Lighting.

COMBINED STEAM-GENERATOR AND GRATE.—J. C. RAYMOND, New York, N. Y. By this invention Mr. Raymond seeks to provide a grate in the form of a tube wound helically, producing a cylindrical grate with the openings between the coils of sufficient size to permit the escape of ashes and at the same time sufficiently small to retain fuel when it is

being burned. The grate is designed for use with coal, coke, wood, or the like, and provision is made for introducing the fuel and for removing cinders from time to time.

Household Utilities.

BEDSTEAD.—A. FIELDS, Gilmerton, Va. Briefly stated this invention relates particularly to a novel construction of head and back rest adapted for adjustment to support a person in bed at any desired inclination. It is especially adapted for use in connection with and to form a part of an iron or other metal bedstead; and can also be applied to wooden or other bedsteads as desired.

FOLDABLE METALLIC BEDSTEAD.—C. P. BROWN, Springlake, Mich. The leading feature of this invention is the provision of means by which the bed-frame is balanced without resorting to weights, springs, or the like, thus making the operations of raising and lowering the bed-frame easy and rapid. Means provide for drawing the several parts into firm interlocking relation when unfolded for use. It relates to improvements of the kind disclosed in a prior application filed by Mr. Brown.

Machines and Mechanical Devices.

APPARATUS FOR COATING NAILS.—C. WAGGONER, Kokomo, Ind. The improvement made by Mr. Waggoner in this case has reference to apparatus intended particularly for coating nails with a cement compound, but useful for various other analogous purposes, as will be seen by skilled mechanics. Means provide for suiting the apparatus to handle nails of any size.

LATHE TEST-INDICATOR.—G. G. RIGGS and A. E. BABIN, Waterbury, Conn. The invention relates to indicators used for centering and truing up work to be turned upon a lathe. It presents certain improvements in the construction of such apparatus whereby the same is rendered more efficient, accurate, and sensitive and also whereby it is given a combinational character and admitting of quite a variety of uses readily suggested to those skilled in the art.

STOP-MOTION.—H. L. POWELL, St. Marys, Ohio. The improvement refers to a mechanism for automatically stopping the motion of rope or equivalent transmission means upon breakage or other derangement thereof. According to the embodiment of the invention the inventor employs a prime-moving device restrained by the normal transmission means and active upon the derangement of said means, this device when active transmitting movement to devices for throwing out of action the driving mechanism.

TRANSMISSION-GEAR.—A. E. OSBORN, New York, N. Y. In this patent the invention has reference to a means for transmitting motion at different speeds and in different directions. It comprises a system of gearing of the sun-and-planet type especially adaptable to motor-vehicles, but useful in other connections—as, for example, on machine tools. Primarily, the object is to provide a gear of this character having the least number of parts consistent with sufficient strength and efficiency.

VARIABLE SPEED AND POWER TRANSMISSION DEVICE.—C. L. ROSENEVIST, Niagara Falls, N. Y. In transmission of motion and power from a prime mover to a machine or the like which is subjected to considerable variations in load strains it is essential that means be provided whereby compensation is afforded for such variations of load by altering the speed of motion correspondingly, also that slip of transmitting medium be avoided, and that changes in speed be effected either quickly or gradually, while driver and driven machine are in motion. The device affords a very simple practical speed-changer that is very effective and reliable in operation. The inventor states that he has an apparatus in operation.

COIN-CONTROLLED MECHANISM.—H. MEYER, New York, N. Y. The object in this invention is to provide a mechanism designed for starting the motor or other actuating mechanism of a self-playing musical instrument or the like and arranged to utilize the proper coin introduced as a part of the operating device, to prevent spurious coins from being effective, and also to prevent repetition unless a new coin is introduced.

SELF-PLAYING PIANO.—H. MEYER, New York, N. Y. In Mr. Meyer's invention the object of the improvement is the provision of a self-playing piano arranged for the notesheet to automatically control pneumatic devices for moving either the hammer-rail or the damper-rail into an active position, to hold the same therein the desired length of time, and to then release the rail for the latter to assume its normal position.

VENDING-MACHINE.—F. LYNES, Johnston, N. Y. The aim of this inventor is to provide, in connection with ejecting devices, novel devices for catching and discharging disks of hard or other magnetic material that may be placed in the coin-chute, for preventing the entrance of coins when the machine is open or in operation, for discharging a disk of lead or similar soft metal, also a novel means for ejecting the articles vended.

SIPHON.—W. P. LOCKE and H. D. MINNICK, Canton, Ohio. That class of siphons which are provided with a starting attachment consist-

