

RECENTLY PATENTED INVENTIONS.

Agricultural Implements.

PITCHING APPARATUS.—S. C. SPANGLER, Clyde, Oklahoma Ter. This apparatus is designed for handling grain, hay, and the like, and is adapted for use in feeding sheaves of grain to a thresher. At the base of the machine the operator manipulates the various parts to move the grain and other material from its resting-place and "pitch" it into the thresher. It is under complete control, owing to the various cables and other gear provided.

PLOW-POINT.—G. N. MOOBY, Afton, La. The invention refers to plow-points generally and specifically to a combined detachable plow-point and share-cutting edge formed in one piece in improved conformation, whereby it may readily be detached for renewal. Owing to special means for its attachment a more secure fastening is afforded.

Electrical Devices.

TELEPHONE CALL SYSTEM.—E. A. TERPENING, Geneseo, Ill. This system admits of general use, and is particularly adapted to party telephone lines employing either bridge or series circuits. High resistance magnets prevent the calling apparatus from closing the main talking-circuit, and the generator-coils are so wound as to generate a current of great strength so that one-twentieth of the energy is sufficient to ring an individual bell.

INSULATED STRAIN.—L. STEINBERGER, Brooklyn, N. Y. This insulated strain belongs to the class designed as "globe-strains." The invention admits of a variety of uses. It possesses great tensile strength, and admits of considerable adaptability in use. The structure is such that all of the metal parts may be made of drop-forged steel or other metal, thus obtaining a maximum of strength with a minimum of weight, little complication and an absolute certainty of insulation.

TELEPHONE ATTACHMENTS FOR TELEGRAPH LINES.—E. RUSSEL, U. S. Army, Washington, D. C. Capt. Russel in this case provides an apparatus capable of quick adjustment to a telegraph line at any point, so as to utilize the line for telephonic purposes without impairing its value for telegraphic purposes and without any interference to the telephonic communications from the sending of telegraphic messages. It consists in the particular arrangement of an inductance coil, a transmitter, a receiver, a local battery, a circuit interrupter, and a condenser.

Engineering Improvements.

ROTARY ENGINE.—J. WIECHMANN, Albany, N. Y. The object of this invention is to provide a new and improved rotary engine and pump which is simple and durable in construction, very effective and economical in operation, and arranged to utilize the motive agent expansively to the fullest advantage.

ROTARY ENGINE.—A. L. TREESE, Jennings, Oklahoma Ter. This engine may be used in connection with all fluids under pressure, such as steam, ignited gases, compressed air, and the like. The invention is characterized in a general way by a rotating multiple cylinder, the pistons of which move therewith, but have their rods in connection with a stationary element arranged eccentrically to the rotation of the axis of the cylinder.

Mechanical Devices.

ORE-CONCENTRATOR.—F. W. HARLOW, Eureka, Col. This invention relates to concentrators and slimmers such as shown in a patent granted to Mr. Harlow in 1898. In operation it is very effective and comparatively noiseless. It is automatically governed as to the length of the stroke of the bed or pan to insure a thorough separation of the tailings from the ore and without undue jarring of the machine.

REVERSING MECHANISM.—C. J. COOK, Brooklyn, N. Y. The intention in this improvement is to provide in power transmission a reversing mechanism arranged to reverse at any time to cause rotation of the member to be driven in either a forward or backward direction and at the same time at an increased or diminished rate of speed.

APPARATUS FOR DEPILATING SKINS AND FURS.—A. BILLAUD, 42 Rue de l'Amiral Mouchez, Paris, France. To improve on other machines for removing "dog-hairs" without touching the down, the inventor in this device furnishes means for feeding the fur gradually forward so as to stretch it over the edge of the bar and brushes for depressing the down while the skin is stretched and folded so that only the dog-hairs project. Knives are provided for removing the hairs without touching the down.

FILLING APPARATUS.—W. H. SHEFFIELD, Hobart, N. Y. The design of the inventor is to provide an apparatus more especially intended for filling milk and other liquids into a number of bottles or other receptacles at the same time without danger of causing foam or froth during the operation, thus allowing proper filling of the receptacles.

ROTARY CHURN.—J. T. MARSH, Farmer City, Ill. This rotary churn is one of the class known as "working-body." A series of cream receptacles or carriers are employed which are mounted and temporarily secured upon the arms of the spider or skeleton, which is to be

rotated by hand or power. There is no limit to its dimensions, yet it is particularly adapted for those who daily churn a small quantity of cream.

ADDRESSING-MACHINE.—H. L. GAY, Monticello, Fla. Mr. Gay in this invention has brought about the development of a machine that relates particularly to apparatus for severing printed names and addresses from strips of mailing-papers or the like. In the operation the strip of paper is drawn over the adhesive brush and fed through the front of the machine in an intermittent manner. The projected portion bearing a name will be severed by the cutter, and the blade projection will press such severed portion upon a wrapper. The machine may be provided with legs, or securely fastened to a table.

Railway Improvements.

MAIL-CARRIER.—E. HORST, Wooster, Ohio. In this case the invention relates to devices for transporting mail-matter between a dwelling and highway in rural districts, the object being to provide a device of this character of simple, inexpensive construction, by means of which delivery and collection of matter will be expedited.

SWITCH-OPERATING DEVICE.—J. M. WILBUR, Colorado Springs, Col. The design of the inventor of this device is to operate switches from a moving car, which may be a street-car, coal-car, mineral-car, or other vehicle running on the rails. As the devices are attached to the truck they will not be affected in operation by the upward and downward motions of the car.

Miscellaneous.

PIANO OR SIMILAR INSTRUMENT.—SARAH W. CLARK, New York, N. Y. The inventor provides a piano lid or top made of thin material and curved so that it will serve as a sounding-board to diffuse and give distinctness and effect to the musical sounds. The invention also provides improvements in the main sounding-boards.

TRANSPARENT DECORATION.—C. H. HEARTFIELD, New York, N. Y. The idea underlying this improvement is to provide a transparent article for the decoration of walls, ceilings, fireplaces, and the like capable of being used in the form of a tile or in strips of desired length and width and to so construct the article that a color or colored design will show at the outer or transparent surface in varied lines and with a mesh or textile effect. The back of the article when used as a tile may be so formed that it will key thereto the cementing material which is used for securing the tile to the wall.

CORKSCREW AND CORK HOLDER.—G. H. BRINNON, Elwyn, Penn. This device is well adapted for use to pull the cork of a bottle and also to retain the cork in the neck of the bottle if the cork is replaced and the holder adjusted for such a purpose. It is advantageous in securing the cork of a bottle holding aerated liquid, volatile spirits, or gaseous liquor and retaining any undecanted portions; and after the withdrawal of a tight cork, when the unused contents of a traveler's medicine or liquor bottle may be saved without spilling.

CARPET-FASTENER.—S. D. COSTENBADER, Leighton, Penn. This fastener has but one screw or nail therein, which is to be embedded or driven into the stairs to clamp the carpet to prevent any movement of the material. The various portions of the device are so constructed that there is no liability of the parts being easily damaged, and the article is so simple that it may be placed in position for use by even unskilled persons.

BRICK-KILN.—J. PECK, Haverstraw, N. Y. By means of this improvement a brick-kiln may be constructed in which the draft through the arches will be more effective than in the usual construction, thus enabling fuel such as oil and soft coal to be used advantageously. A fire may be maintained throughout the length of the arch and the necessity of frequently changing the grate-bars is avoided.

BOTTLE-STOPPER.—H. GRAMLICH, New York, N. Y. This stopper is secured in the neck of the bottle by lugs therein. Its lower portion has a longitudinal bore and in the exterior of the upper portion are pockets which communicate with the bore through openings. The pockets have seats for ball-valves. Channels communicate with the pocket through recesses in the stopper, and when this is in place the bottle-neck will form the outer walls for the pockets and channels. The inner walls are so curved that the ball-valves roll easily. In discharging, the bottle is tilted. Then the ball-valves roll out of their seats, the liquid passes through the bore into the pockets and through the recesses and out through the channels.

HYDROCARBON-FILTER.—G. W. STEWART, Ticonderoga, N. Y. The particular object in this case is to produce a neat, cheap, and compact filter for general use, and mainly applicable to launches, automobiles, and other machinery, in connection with gasoline engines. Preferably the filter may be located at some point between the gasoline-tank and the needle-valve.

AWNING-FIXTURE.—J. F. KOHLER, New York, N. Y. This awning-fixture carries the bottom iron of the awning. The fixture is constructed in two parts—namely, a retaining-sleeve and a socket member—a pair of such parts being used in connection with each awning.

The socket members may be readily connected with or disconnected from the retaining members and when an awning is down the socket members will engage with the uprights upon which the sleeves slide so as to prevent the wind from lifting the awning, thus avoiding the disagreeable rattling noises.

HYPODERMIC SYRINGE.—F. S. DICKINSON, Bayonne, N. J. This syringe is provided with a glass barrel and means whereby a metal plunger or piston can be used without packing or washers. The syringe is supplied with a tip so made that a special form of needle-hub may be used without washers and so that the tip when used with a washer will neatly receive the needle-hub.

MANOMETRIC GAGE.—C. SCHMITZ, 5 Calvin Street, Berlin, Germany. In instruments, heretofore used, for gaging the height of a liquid level it has been difficult to render the indications independent of the inner pressure of the receptacle and of the specific gravity of the liquid. In the present invention the height of the liquid is determined by the pressure of a liquid column, which is inclosed in a suitable appliance and thus rendered invariable.

BRICK.—G. HERING, New Rochelle, N. Y. The object in view in this invention is to obtain a brick designed for use as a face-brick on walls of buildings, chimneys, and the like, and arranged to protect the longitudinal and the vertical mortar or cement joints against rain, sleet, and the like and to insure quick running off of the water from the face of the wall to prevent interior dampness.

GAME APPARATUS.—E. BAWDEN, New York, N. Y. This apparatus belongs to the parlor game class. The invention consists primarily of a rectangular board, the corners of which are provided with roulette wheels and the center of which is furnished with an endless elliptical track for indicating the scores made by the several players.

TOY.—H. WITTMANN, Manitowoc, Wis. The inventor claims for his object the provision of a toy so arranged that by casting it upon a table or floor it may be caused to assume various shapes or forms indicating manifold objects, and also serve for elementary lessons in arithmetic, thus not only giving amusement, but having educational features.

LINK FOR FISHING-GEAR.—A. W. WILSON, San Francisco, Cal. This fishing-gear may be classified as belonging to links used for connecting the line or leader to the spoon, bait, or other lure in fishing-tackle. The object aimed at is to construct the link so that it may be opened at will and yet be held securely, so that it cannot be torn apart by the strains to which it is subjected.

DOOR CHECK AND CLOSER.—J. L. PEARL, New York, N. Y. According to the inventor's claim, the object is to provide a device which affords increased strength to the working parts, eases the adjustment of the motor-spring more convenient and reliable, and provides novel means for regulating the spring of an arm connecting the spring mechanism with a door-casement, so that the spring will always be in adjustment for efficient service.

DRESSER.—J. L. LARSON, Butte, Mont. This is particularly an improvement in hinges or mountings for swinging drawers, doors, etc., for dressers, although the hinges may be employed for house-doors, cabinet doors, and, in fact, for any swinging closure, the object being to provide hinges by means of which a drawer or other device supported thereby may be swung to the right or to the left as may be required.

PAPER-FILE.—L. W. ARMSTRONG, Walla Walla, Wash. Mr. Armstrong's contrivance is in the nature of a paper file or holder for bills, letters, deeds, and similar documents, where a number of papers are to be temporarily held in a package for selection, distribution or ready reference. It consists of a foldable cover having various leaf members for inclosing the bills and other papers so as to permit their headings to be quickly exposed and traversed without removing the bills from the holder.

TRUCK FOR MOVING BUILDINGS.—J. T. MARSH, Farmer City, Ill. The purpose of the inventor is to provide a truck for use in moving buildings and other objects which shall combine maximum lightness with easy draft and great facility for adjustment of horizontal dimensions, also adaptation to be hauled either end forward, to be easily turned and guided. It may be built at small cost, as well as easily dismembered for shipping and storing.

PROJECTILE.—W. PEPPERLING, Two Harbors, Minn. This projectile is of that order which is provided with one or more devices adapted to expand or project upon striking an object. The bullet proper is adapted to so act upon movable devices in rear of it as to cause them to jut laterally from the shell, and thus enlarge the hole made by the projectile in entering the body of an animal or passing through soft tissue or material.

SOUNDING TOY.—J. S. PATTEN, Baltimore, Md. Comprised in this invention are certain novel constructions and combinations of parts which produce a sounding toy, particularly in that class of devices in which a cap in a suitable holder is carried on the end of a cane-like staff and is exploded by striking it against the pavement.

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