

**RECENTLY PATENTED INVENTIONS.**  
**Of General Interest.**

**FILTER.**—L. QUIMBY, Youngstown, Ohio. This device cleans oil, such as that collected from machine-bearings, thus enabling its reuse. A primarily-acting strainer removes coarse foreign matter and delivers the oil through a valve controlled passage to a washer-chamber containing cleaning liquid. The dirty oil is passed through water in the washer-chamber, is partly cleansed and then discharged into a heater-chamber where any sediment is precipitated. A third chamber receives the oil from the heating-chamber from which upper portions of the filtered oil is drawn, leaving sediment at the bottom. All chambers have means for tapping off sediment from their bottoms. Washer-chamber siphons off mixtures of impure oil and water.

**GAME APPARATUS.**—R. D. MARTIN, Tampa, Fla. In playing the game the person takes hold of the ball, which is connected by a cord to a wire head, and throws it laterally with the necessary force to cause it to swing around the post, the head turning on the pivot pin. As propelling force diminishes the ball swings nearer the peripheral face of the base, to finally drop into one of the pockets or stalls. Instead of throwing, the ball may be struck by a bat, racket, or the like to cause it to spin around the post and drop into a stall which is numbered. Other games may be played.

**FRAUD-DETECTING BOTTLE.**—H. METZINGER, New York, N. Y. As is well known, in selling liquids of various kinds from bottles which have been partially emptied ample opportunity is afforded for fraud upon a purchaser, because the bottle bearing the name of a superior brand may be continually replenished with an inferior substitute to all appearances the genuine article. By the practice of the present invention it is hoped to prevent such perpetrations of fraud.

**GUN.**—C. D. LOUENHIZER, Cameron, Mo. This improvement has reference to ordnance, and its object is to provide a gun having improved breech mechanism, with a view to effecting a rapid loading, firing, and sighting. While the parts are simple in construction and arrangement, the operating of the gun is largely automatic, which is a very desirable feature. Intended especially for use in the navy, it still is readily adapted for use as a field-gun.

**MINING-TOOL.**—W. J. FURBEE, Watson, W. Va. This invention is an improved tool for miners' use, and has for its object to provide in one implement a pick, scraper, and tamping-iron all arranged for convenient and effective use separately. Heretofore these implements have been separate and, with a cartridge-inserting stick, as well as an ax and a shovel, form a miners' kit, which is a bulky assemblage of tools to take care of and have ready.

**COMB.**—M. ERSTLING, New York, N. Y. In the present patent the improvement relates to toilet-combs; and the inventors' object is to produce a simple comb of a construction especially adapted to facilitate the cleaning of the teeth of the comb and the insertion of new teeth in the case of breakage. The comb normally presents substantially the same appearance as an ordinary comb; but its parts may be quickly disconnected.

**EYE-MASSAGE MACHINE.**—F. H. MAY, Birmingham, Ala. Mr. May's invention is in the nature of a machine in which mechanical vibrations are imparted to the eye through an electrically-operated vibrator and which is so constructed also as to permit the direct application of either primary or Faradaic currents to the eye. It is intended to relieve catarrhal troubles of the eye and eyelid and for muscular and nerve weakness.

**ROOF-FRAMING CHART.**—E. E. WHITE, Fertile, Iowa. Primarily this inventor has in view as an object the provision of a chart the surface of which is so graduated or marked that the lengths, cuts, or bevells of common hip and valley and jack rafters will be readily indicated to the ordinary mechanic or builder. Further, to provide a chart which when used in conjunction with the common steel square will assist the beginner in cutting rafters, roof-boards, cornice-boards, and molding.

**BUILDING-BLOCK MOLD.**—J. McL. PETTY-JOHN, Terre Haute, Ind. The inventor's object is to provide a mold for the manufacture of artificial-stone blocks involving certain features of novelty whereby it is rendered better adapted for molding purposes generally, and particularly for molding hollow and also rough building-blocks. In practice he employs a mold having sides and ends made laterally adjustable through peculiar framing and novel connecting means. Minor features are also employed.

**PROCESS OF EXTRACTING OILS, GREASE, ETC., FROM SEEDS, WOOL, ETC.**—J. McMAHON, New York, N. Y. The object of the invention is the provision of certain improvements in the extraction of oils from seeds, grease from wool, etc., by the use of a volatile solvent in a very economical manner and whereby the solvent is recovered for reuse and protected against an admixture of air to avoid the danger of an explosion.

**REFLEX CAMERA.**—C. A. MULLER, New York, N. Y. One purpose is to provide in this case a camera-box containing a reflex focusing attachment which when folded will occupy a

minimum amount of room, and, further, to so construct the box that any form of shutter or type of lens can be employed and so that when the camera is not in use the lens may be swung into a compartment adapted especially for it and the compartment closed by the lens-board, thus protecting the lens and enabling the front portion of the camera to be without projections.

**PACKING-RING.**—J. J. McDONALD, New York, N. Y. The invention has reference to improvements in packing-rings particularly adapted for forming a tight and waterproof connection beneath the base of a closet-bowl and a flooring; although it may be used for packing cylinder-heads or the like, the object being to provide a ring strong and durable and that will retain a suitable plasticity.

**IGNITER.**—J. KELLERMANN, 13 Neue-Jacobstrasse, Berlin, Germany. As the cover is opened air flows into the receptacle, a mixture of the combustible vapors and air is formed, and after a very short time a flame issues from the receptacle top. This flame may be used for igniting purposes. As the cover is again placed on the receptacle and air excluded the ignition process is interrupted and the flame extinguished, so that the igniting body or pill is not worn to any great extent, and long duration of life for the same is insured.

**APPARATUS FOR FILLING BOTTLES OR OTHER RECEPTACLES.**—H. L. HORNUNG, New York, N. Y. While the apparatus may be used with many kinds of liquids it is very well adapted to those which are carbonated and therefore foam upon being drawn into a receptacle; it is particularly adapted for the filling of bottles with beer. The object is to provide for drawing beer and other carbonated liquids directly from the faucet and while in a live or carbonated condition without formation of foam.

**Household Utilities.**

**SCRUBBING DEVICE.**—F. E. WHITNEY, Syracuse, N. Y. The improvement refers to scrubbing-brushes, mops, and the like, and is used as follows: The lever-handle is pushed downwardly and away from the mop-handle. Arms provided with concave face with channels at their ends are inserted within the V-shaped recess or another somewhat similar as the case may be, and the spring portion is placed in notches before restoring the handle to position. Then this handle is pressed back against the mop-handle, bringing strain upon the spring member, whereby the latter is held securely in the notches, and by its elasticity holds the arms firmly in either V-shaped recess.

**Machines and Mechanical Devices.**

**BRICK-CUTTING APPARATUS.**—C. M. STEELE and A. P. STEELE, Statesville, N. C. The invention is an improvement in that class of apparatus which are adapted to divide a continuous clay bar into brick lengths; and is an improvement upon the former patent of A. P. Steele, in which a pair of toothed gears were employed to transmit motion to the reel or clay-bar cutter, the construction and co-action of gears being such that the radius of the driving-gear decreases while the radius of the driven increases in relative proportion, so that the bar was cut or divided upon vertical lines.

**SPLIT GUIDE-BOX FOR STAMP-MILLS.**—W. N. NOLAN, El Oro, Estado de Mexico, Mexico. Mr. Nolan's invention has reference to guide-boxes and admits of general use, but is particularly applicable to guide-boxes employed in stamp-mills for guiding the vertical stems of the ore-stamps. The invention refers more particularly to a type of guide-boxes made in two parts. The mechanism combines practically all the advantages of an integral structure, and a composite structure.

**SWAGE FOR INSERTED SAW-TEETH.**—W. L. NEWELL and U. STALEY, Buckeye, Wash. The principal object of the invention is the construction of a machine which while simple and comparatively inexpensive in construction will be thoroughly efficient in operation, which may be readily adapted for operation upon saw-teeth of different patterns, and which may be adjusted to compensate for wear both upon the teeth of the machine and upon the saw-teeth operated upon.

**MORTISING-MACHINE.**—O. C. WYSONG, Greensboro, N. C. Mr. WYSONG employs a series of augers and hollow chisels arranged horizontally and mounted in frames adjusted toward and from each other on the horizontal top of main frame. Stuff to be mortised is fed regularly and automatically to augers and chisels, it being supported upon a bed reciprocated automatically and regularly and provided with a "fence," adapted for adjustment to accommodate work of different thicknesses or mortises of different depths. The bed is supported upon brackets adapted to be raised and lowered by screens, according to thickness of stuff or location of mortises therein. Power is applied by treadle.

**STUFFING-BOX.**—R. L. MOSSMAN, New-castle, Pa. Ordinarily if throttle-stem packing blows out it is necessary to draw the fire and blow off steam before the stem can be repacked. Former devices were open to the objection that the throttle had to be open while packing, consequently the valve-rod had to be disconnected and the ports covered. Even with the ports covered the opening of

the throttle is risky when steam is on, and it requires manipulation and time. The invention overcomes all these objections, as the stem can be packed while the throttle is shut.

**BRUSHING OR POLISHING MACHINE.**—A. C. JOHNSON, Baker City, Ore. The device is capable of general use and is especially adapted for cleaning and polishing shoes, as well as for brushing clothing, hats, and the like. It may be means of a flexible shaft be applied in any desired position or angle, and operated with a small amount of power.

**ELECTRICALLY-OPERATED HYDRAULIC VALVE.**—C. ENGBERG, St. Joseph, Mich. In the present patent the improvement has reference to valves, the inventor's more particular object being to enable large and unwieldy valve-gates to be readily controlled, especially from a distance, and to apprise the operator of the condition of the valve.

**CARBURETER.**—H. BRASIER, 36 Rue Mollitor, Paris, France. This invention is a carbureter in which the volatile liquid fuel is introduced into the air current in two diverging jets which meet to increase the atomizing effect of the carbureter, and in which provision is made for auxiliary air supply active upon an increased suction through the carbureter, this supply being controlled by a spring-seated valve lifted more or less according to the force of the suction exerted. Tension of the spring on the auxiliary valve may be regulated at will so as to place the portion of the air and fuel forming the carbureter mixture under control of the operator.

**SPRING-MOTOR ATTACHMENT FOR ENGINE-SHAFTS.**—W. J. BELL, Los Angeles, Cal. Mr. Bell's invention is an improved means for starting an engine or other rotatable shaft or adding power to such shaft at any period of its rotation. An improved attachment is available for starting an engine or starting the rotation of any shaft to which it may be applied or for energizing—that is, maintaining or increasing the rotation of—the shaft at any juncture.

**Railways and Their Accessories.**

**RAILWAY SAFETY DEVICE.**—W. H. CLING, Charleston, S. C. The invention relates particularly to improvements in devices for preventing head-on or rear-end collisions of two trains moving on the same track, the object being to provide a simple means for providing the setting of emergency-brakes of a train or trains should two trains be moving in the same block, thus bringing a train or trains to a full stop in time to prevent accident.

**CAR-AXLE.**—F. M. THOMPSON, East Liverpool, Ohio. Mr. Thompson's invention is an improvement in car-axles. In the use of this improvement the inventor avoids any dragging or grinding of the wheels and the consequent wear thereon and on the rails on rounding curves by permitting the opposite wheels to turn independently and secures this result by a simple construction which permits the ready connection and disconnection of the opposite axle-sections.

**Pertaining to Recreation.**

**CARD-RECEPTACLE FOR DUPPLICATE CRIBBAGE.**—L. C. WILLIAMS, New York, N. Y. The object of this invention is to provide a cribbage board with a series of receptacles so arranged as to receive the several hands and the trumps in order to provide for playing of duplicate cribbage. The board proper is mounted at the top of the receptacle and below it are arranged in the front and end walls two series of horizontal recesses for the hands and trumps. The former are alternately numbered from front and ends so that their numerals serve to designate the trump recesses. Receptacles are provided for packs left after dealing. Designed for two players, but four can be accommodated.

**AMUSEMENT DEVICE.**—H. S. THOMAS and J. J. KIRKPATRICK, JR., New York, N. Y. This invention pertains to improvements in devices of the character in which passenger-carrying cars are movable along a track, the object being to provide a means for starting the cars and also to provide movable scenic devices along portions of the track that will give the impression of traveling a long distance at high speed, while, in fact, the car is moving a comparatively short distance at slow speed.

**Pertaining to Vehicles.**

**HARNESS.**—R. WEEKS, Carmel, New York. The object in this case is to minimize the parts of the harness without lessening its efficiency for the purpose specified, thereby not only simplifying the rig, but lightening the load on the horse and permitting the animal greater freedom of movement. The invention relates particularly to "track-harness"—that is harness intended for light or racing vehicles. Mr. Weeks has invented another harness especially for use with light vehicles in track or speedway driving, but applicable to various other conditions. It provides for the use of a breast-collar, enabling the horse to draw heavier loads than with the draft from the saddle or belly-band alone, as in this inventor's copending case formerly filed, and he also provides means for supporting hoppers for pacers and other attachments to the hind quarters of a horse.

**WHEEL-RIM CLAMP.**—W. L. BLISS, South Egremont, Mass. The present invention refers to a clamp for the rims of wheels, and has particular application to a device for perfecting the joints of the rims of vehicle-wheels. The principal object is to provide an article which may be readily, easily, and conveniently adjusted to the rim of a vehicle-wheel for the purpose of perfecting the joint of said rim when the latter is being placed upon the spokes, such device assisting in the final cutting of the rim.

**VEHICLE-TIRE.**—J. C. RAYMOND, New York, N. Y. In this tire a rim plate is provided along the side edges of which are circumferential channels. At the outer edge of each channel there are inwardly projecting lugs formed at their inner sides with enlargements or ribs. In connection with the channels and lugs, edged sections are employed on the rim, and are formed in their outer edges with sockets to receive the tire edges. The sections are also provided with inwardly projecting hook portions having enlarged heads for engagement with lugs of the rim plate, and springs are arranged within the channels to secure the engaging parts of lugs and hook portions of rim plate and sections.

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