RECENTLY PATENTED INVENTIONS. Of Interest to Farmers.

BEEHIVE.-C. LUDLOFF, San Pedre de les Pines, D. F., Mexice. This beehive is particularly adapted for use in places where there are sudden changes of temperature, as in the high tablelands of Mexico, where hot days are followed by cold nights. Such conditions cause the loss of bee swarms every year by springdwindling if the bees are kept in hives of the construction which allows the sudden changes of the outer temperature to influence the life of the bees in their habitations.

STACKER.-L. A. LAMBORN, Scottsville, Kan. Mr. Lamborn's invention relates to a stacking apparatus adapted more particularly for the handling of bundled grain. The stacker is simple, portable and effective in operation, and may be successfully operated by one attendant at the power mechanism, this person also varying the inclination of the carrier frame, and another to manipulate the chute.

Of General Interest.

New York, N. Y. In this case the invention in a vest-pocket. A further object is to pro-vide a novel film-strip holder, with means for the material engaged by the clasp. operating the same to move the strip, whereby new or unexposed surfaces are brought to expesure pesition.

it is distinguished from the processes hereto- out calculation on the part of the operator. fore in use by providing means whereby the sweating and efflorescence and the subsequent cracking of the stones as heretofore manufactured is avoided and the stones are given an increased hardness.

TOY BANK .- A. FONTS, New York, N. Y. In carrying out the present invention Mr. like, the parts of which are so correlated and arranged that when once a coin has been deposited in the bank it will be impossible to remove the same without a door provided for the purpose or $\operatorname{destroying}$ the bank.

CHANGES .-- A. J. DELAVIGNE, New Orleans, La. The improvements in this case have reference more especially to charts or boards for use by companies or exchanges engaged in buying and selling—say grain, cetten, or eil, Kan. The tey consists of a cene-shaped body, provide means for visually indicating both stacked by a condition of a cone-snapen body, buyers and sellers of goods, which particular held in the wind, it will be forced outward by offer for the purchase or sale may be accepted by each buyer or seller and also to provide a board whereby business may be transacted between buyers and sellers even if one of the two parties should be absent and also arranged and operated so that none but the closers will know by whom the offers are made.

ENVELOP AND LETTER-SHEET FOR SAME.—G. ARCHIBALD, New Rochelle, N. Y. The inventor's purpose is to provide a construction of an envelop and a letter or bill sheet especially adapted thereto which will admit of a folding stub forming a portion of $\bullet n$ $\bullet ne$ $\bullet r$ beth sides to be passed through openings in the envelop when the letter or bill is placed therein and the stub be secured at the outer face of the envelop in a manner to disclose an address, rendering it unnecessary to write $\bullet r$ print the address $\bullet n$ the envel $\bullet p$.

PUZZLE.-E. G. JACKSON, San Francisco, Cal. In this puzzle a series of slides are positioned upon a frame with their Roman numerals in irregular order, and they may then be rearranged in consecutive order by releasing, say, "V" and "X" by certain means, then releasing "VI" and "VIII" by certain means. Without disengaging more than one end of each slide at a time these may be brought into the desired order. Considerable ingenuity may be involved in accomplishing the purpose of this entertaining device.

METAL DAM.--J. L. Holmes, Butte, Mont. way.

POST-CHECK CURRENCY, I. D. WOR-CESTER, Pittsburg, Pa. This invention relates into a check payable only to the payce named eggs, for beating and mixing compounds for stone block to cut the latter to any desired thereon. The objects of the post-check currency as now contemplated are not accomplished, and the system is without practical object of the improvement is to produce a purpose for which it is designed. efficiency in its present condition. It is necessary to devise some simple means which renders the post-check note after it has been once transformed by the holder into a check pay-

of the unchanged post-check note. Mr. Worcester accomplishes this object.

BOTTLE.-R. G. DAVIS. Het Springs, Ark. This bettle is so constructed that after discharge of its original contents it cannot be refilled. The bottle is provided with a valve which leaves its seat to allow the liquid to pass freely out. Should an attempt be made to refill the bottle by placing it in liquid or by forming a vacuum in the bottle and then inserting it in liquid, the liquid will force the valve tightly against its seat, and thus pre-

CLOSURE FOR AIR-SHAFTS .- M. SCHOLL and D. GRONFELD, New York, N. Y. The principal object of the invention is to provide an improved apparatus whereby air shafts in buildings may be automatically divided into sections corresponding to the floors of the building, whenever fire enters the airshaft to any considerable extent. The invention also provides means at each floor for automatically closing the air-shaft at that point, when de

GARMENT-CLASP .- J. P. WILSON, Chicago, III. The invention relates to clasps that afford PHOTOGRAPHIC CAMERA .- M. Niell, gripping ends for garment or hose supporters and has for its object to provide novel details of construction for a garment clasp that adapt relates to improvements in cameras, an object of construction for a garment clasp that adapt being to provide a camera of novel form and it for a very reliable engagement with the garconstruction and of a size to be readily carried ment, avoid injury to the most delicate fabric,

PERPETUAL CALENDAR.—T. O'SHAUGH NESSY, San Jose, Cal. The purpose of the invention is to provide a simple and accurate PROCESS OF MANUFACTURING ARTIFICIAL STONE FROM MAGNESIT.—C. any month in any year, leap year included,
GROYEN, Bonn, Germany. This invention has and in any century within the scope of the
reference to a process of manufacturing articalendar, and the day of week of any date ficial stone from exychlorid of magnesium, and may be quickly and readily ascertained with-

TRIGONOMETRICAL METER.—H. C. PERCY, Natchitoches, La. This meter is designed for use by surveyors in the field for finding, without calculation, the distance to any remote object, or the height of an object. It is also serviceable in schools for the clearer teaching of trigonometrical functions, since it ing machine. Fonts has particularly in view the provision shows for any angle the just proportions beof an article such as toy banks, safes, or the tween the different lines within and without the circle to the radius.

COUPLING. F. J. CARNEY, New York, N. Y. Mr. ('arney's invention relates to couplings adapted more particularly for use in connecting the piping of such receptacles as set INDICATOR-CHART FOR BUSINESS EX- urinals. Its principal objects are to provide a device of this class which may be readily applied and removed and which will preserve the integrity of the joint.

> WHIRLING TOY .- S. BRISTOW, Topeka, attached by a cord to a rod. When the toy is the wind which impinges against the vanes, causing the toy to rapidly rotate.

SEPARABLE HINGE .- S. F. MEEK, New York, N. Y. The primary object of Mr. Meek's invention is the provision of a simple and cheap construction, wherein one of the two leaves of a hinge may be quickly connected to or disconnected from the other, without brush or brushes, which brushes many be susremoving the pintle, and at the same time the tained in position by bolts and springs or two leaves remain in engagement under normal other suitable devices. conditions in the service of the article. The leaves on the door simultaneously into engagement with the hinge leaves on the jamb.

purpose of this invention is to provide a toy in which a transparent cylinder is provided great extent automatic. having means by which a ball or other rolling: object passes and lodges in pockets or passes ING-MACHINES.—H. MANNING, 1a Foster through openings in any one of a series of Lane, London, England. This invention redisks or rotating receivers mounted to revolve lates to the lock-stitch sewing-machine dethe base for the cylinder, having apertures therein and a depression arranged around the apertures, which apertures lead to exposed the entire operative mechanism is situated bechambers in the base, any one of which may neath the work-plate. The present invention for his purposes.

Household Utilities.

with the natural flow of water in the water. pivoted on the main frame and which carries aid of skilled labor. the mattress and bedclothes.

Bussey, Charters Towers, Queensland, Austra- ject of the invention is the provision of a new or for any kind of substance. The primary ures and is intended to efficiently serve the simple, convenient, and cheap article for rapidly and easily beating food substances.

and F. W. KINGSBURY, Evansyille. Ind. In ling the tools thereof may be employed either

and agitation of the contents, to avoid noise | mandrel and welding tools are driven around to provide for flushing from the rim after the the weld. contents of the bowl or trap-seal have been discharged.

WATER-CLOSET BOWL .- R. SCHMALMACK, improvement in wash-down water-closet bowls, its object being to produce a device wherein the flushing-water is divided into two parts, one going to the rim outlet and the other to the bottom outlet. It may be used equally well on wash-down bowls employing siphonic Prime Movers and Their Accessories. action, as well as those without such action, and materially increases the efficiency of both types of bowls.

FOOT-TUB .- J. A. CALDWELL, Rochester, N. Y. The object in this instance is to provide a tub that may be readily placed in an ordinary or large bath-tub and having a drainnipple adapted to engage in the bath-tub drainpipe, thus permitting the running off of water from the foot-tub without danger of any other water passing into the large bath-tub and possibly speiling the same.

Machines and Mechanical Devices,

chine of that type in which a set of rotating hammers are made to act upon the end of the drill-bit and the latter is turned and also in which means are provided for forcing a continuous stream of water into the drill-hole beside the drill-bit to soften the rock and to clear $\bullet ut$ the cuttings, so that the operation may be continuous.

BRICK-REPRESSING MACHINE.—C. W. $\mathrm{Pug}\mathbf{H},\ Veedersburg,\ Ind.\ It is the <math display="inline">\bullet bject\ \bullet f$ this improvement to provide a machine which is adapted for automatically repressing bricks with great rapidity and economy of time and labor. The bricks are received upon a travelwhich they are repressed and then automatically discharged and deposited upon a conveyor by which they are removed from the repress-

APPARATUS FOR FORMING THREADS ON GLASS .- F. WACKENHUTH, New York, N. Y. This apparatus is intended for forming screw-threads of any desired pitch and form on glass cylinders, rods, and other round objects. The inventor has discovered that by providing a tool in the form of a disk composed of a homogeneous substance sufficiently hard $t \bullet \ \mathrm{cut} \ \bullet \mathrm{r} \ \mathrm{grind} \ \mathrm{int} \bullet \ \mathrm{the} \ \mathrm{glass}, \ \mathrm{by} \ \mathrm{driving} \ \mathrm{this}$ tool revolubly at a high rate of speed, and by feeding the work against the periphery of the tool he is enabled to form a thread of any desired sort around the surface of the work.

CLOTH-CLEANING BRUSH FOR FLOUR-BOLTING MACHINES .- L. Jones, Columbus, Ohio. One purpose of the invention is to supply each sieve having a cloth with an inde pendent cleaner. Another is to provide each sieve with an automatically-operating brush which derives its impetus from the motions of the sieve-bex, the same being propelled backward and forward by the arrangement of its mechanism so as to subject the entire surface $\bullet f$ the bolting-silk to the continual action $\bullet f$ a

BASKET - MACHINE. --- C. ENBERG, hinge may be so manipulated as to overcome | Joseph, Mich. The invention relates to basketthe letter or sheet after having been addressed; the practical difficulty met by experienced machines, the object of Mr. Enberg's several workmen in hanging a door by ordinary hinges, improvements being to render the machine, as this difficulty consisting in bringing the hinge far as practicable, automatic and to present rails of different weights and thickness of railcertain points of advantage. This machine has ent with the hinge leaves on the jamb.

been tried in actual practice, and it is found TOY.--S. JURADO, New York, N. Y. The that the two hand-levers are quite adequate to handle it, thereby making its action to a

> SLACK-THREAD CONTROLLER FOR SEWrelates to an improved take-up device for the

BARREL SOAKING AND RINSING MAbuilding the dam without seriously interfering with a supplemental or slat frame, which is in a comparatively short time and without the

> STONE-SAWING MACHINE, J. B. HAN EGG-BEATER. W. V. PALEY and T. H. LEY, New York, N. Y. In this patent the ob-

TUBE-WELDING MACHINE.—W. WATER-CLOSET BOWL.-M. D. Helfrich | has reference to a machine which upon changagain transformed into a close resemblance siphonic action, to do away with all splashing in which the tube to be welded is placed over a the invention, and date of the paper.

incident to flushing the ordinary closet, and the outer surface of the tube at the point of

VISE.—C. II. RITTS, Wausa, Neb. In this patent the improvement relates to a class wherein the jaws of the vise are closed by foot-Evansville, Ind. This invention relates to an pressure, and has for its object to provide novel details of construction for a vise of the character indicated which adapt it to grip and hold articles very firmly and permit their release by slight manual effort.

STEAM-TRAP .- R. D. TACKABERRY, Lewiston, Me. The invention provides a novel manner of mounting one element of the means for transmitting movement of the float so that this element may be readily and fully adjusted from the exterior of the trap, thus regulating the level to which the water is allowed to rise. A novel diaphragm is also provided for operating the outlet valve, this arrangement avoiding the use of the stuffing box and the friction incident thereto.

COOLING AND LUBRICATING CRANK-CASE ENGINES .- R. L. BOWMAN, Pineville, Ky. In crank-case steam engines of the usual type great difficulty has been experienced in DRILLING - MACHINE. — F. F. HEPLER, | keeping the bearings cool and properly lubri-Crescent City, Cal. Mr. Hepler's invention is cated. The present invention provides a novel in the nature of an improved rock-drilling maprocess and apparatus for cooling and lubricating the bearings, in which the crank-case is never allowed to reach a high temperature and the oil is neither emulsified nor cooked, but is constantly removed in normal condition from the crank-case as it accumulates, and is separated by gravity and used over and over again,

> LUBRICATOR .- E. CLARK. Winslew, Ari-Mr. Clark's invention is an improvement in lubricators especially designed for use in connection with the relief valve of a locomotive steam chest for the purpose of feeding graphite or other lubricant into the valves or cylinders of the locomotive, while the latter is drifting with the steam shut off.

> COOLING MECHANISM FOR EXPLOSIVE-ENGINES.-F. REAUGH, Oak Cliff, Texas. This invention relates to a means for air-cooling cylinders of internal-combustion engines and other machinery. The leading feature is the formation in or on the cylinder walls of an air passage or passages and in so arranging parts that movement of piston brings a circulation of air through this passage, such circulation extending into interior of cylinder to cool piston as well. Preferably, and especially in case of adaptation to internal-combusion engines, the engine balance-wheel is formed with fan-blades. These act at mouth of air-passage to accelerate air current and assist action of piston with respect to such contents. Compared with other systems now used, this mechanism, owing to positiveness and thoroughness of air circulation, must give much greater efficiency.

Railways and Their Accessories.

METAL CROSS-TIE AND RAIL-FASTEN-ER. B. S. SAWYER, El Paso, "exas, and C. C. BULL, Albuquerque, New Mex. The object in this case is to provide details of construction for a plate-metal cross-tie and track-rail-fastening means that engage the tie, whereby the cross-tie is afforded means that adapt it for the support of a heavy weight, although a limited area and weight of plate metal is used in its construction; and the track-rails are held secured on said cross-tie in a reliable manner, which permits removal of the trackrails as occasion requires. A further object is to so construct the fastening means that bases may be clamped upon the improved crosstie.

COMBINED CHECK-HOLDER AND MATCH PLATE.-M. J. BEVANS, New York, N. Y. The invention of Mr. Bevans relates to a combinational device capable of use both as a checkholder and as a match-plate. His invention also consists of certain improvements in the device considered as a "check-holder." in the cylinder and finally passes out through scribed in an application for a prior United device enables a passenger to remain undis-States patent, in which all the movements are turbed in regard to care of check and free to derived from only three cams and practically read or conduct himself in any way desired. The match-plate is mounted very conveniently

Pertaining to Vehicles.

COMPOUND VEHICLE-WHEEL. -- F. M. dam more especially designed for use in canyons, streams, and other waterways having

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provide a bed, couch, sofa, or the like which steep or slanting banks, which dam can be may be readily adjusted from the horizontal arranged to subject the exterior and the in- engines, automobiles, road-wagons, or vehicles readily set up, is exceedingly strong and dur- to any desired inclination. This end the inable, and is arranged to dispense almost enventor attains by certain novel devices mounttirely with the use of masonry and to allow of ed on the bed-frame and having connection required to propel or draw the vehicle, and furthermore, to render the movement smooth and adapt it to maintain an upright position traveling over a rough or inclined road-bed.

PROTECTOR FOR PNEUMATIC TIRES .to that class of currency or money which is lia. In this patent the invention relates to and improved stone-sawing machine arranged J. F. Burnam. Madison Station. Ala. I)r. designed to be changed by the holder thereof improvements in a culinary device for beating for making straight or curved cuts in the Burnam's invention belongs to the class of protectors for elastic wheel tires of automosponge and other cakes, and for heating milk shape. The invention consists of novel feat-biles, bicycles, and other vehicles, which are adapted for application to the tread of such tires without inclosing the body of the same, and whose purpose is to prolong the life of Winnipeg, Canada. Mr. Byrd's improvement the tire by taking most of the friction and wear incident to use.

NOTE. Copies of any of these patents will able to the payee named thereon recognizable this case an object is to provide a construction for cutting tubing or for welding together two be furnished by Munn & Co. for ten cents each. at a glance and absolutely incapable of being for washing down the closet without or with sections of the same. It belongs to that class Please state the name of the patentee, title of