## recently patented inventions.

## Of Interest to Farmers. BLEIIIVE.-C. Ludloff, San Pedre de los

 linos, D. F., Mexice. This beehive is particu-larly adapted for use in places where there e 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 spring dwindling if the bees are kept in hives of the construction which allows the sudden changes the outer temperature to influence the life
the bees in their habitations.
STACKER.-L. A. Lambern, Scottsville, Kan. Mr. Lamborn's invention relates te starking apparatus adapted more particularly
for the handing of bundled grain. The stacker is simple, portable and effective in op stacker is simple, portable and effectice in op.
eration, and may be successfully operated by
one attendant at the power mechanism, this person alse varying the inclination of the
carrier frame, and another to manipulate the chute.
of General Interest
Pilotograpiilc camera.-M. Niell, New York, N. Y. In this case the invention
relates to imprevements in cameras, an object onstruction and of a size to be readily carrie in a vest-pecket. A further object is to pre
vide a novel film-strip holder, with means for perating the same to move the strip, whereby new or unexposed surfaces are brought to ex.

Process of mandifacturing artiFICIAL STONE FROM MAGNESIT.-C reference to a process of manufacturing artificial stone from oxychlorid of magnesium, and fore in use by providing means whereby the weating of the stones and tore actured is avoided and the stones are given an increased hardness.
In carrying out the present invention Mr onts has particularly in view the provisio of an article such as toy banks, safes, or the
like, the parts of which are se correlated and arranged that when once a coin has been de--sited in the bank it will be impossible purpose or destroying the bank.
INDICATOR-CHAR'T FOR EUSINESS EXLa. The improvements in this case have refuse by companies or exchanges engaged in buying and selling-say grain, cotton, or oil, for instance; and the principal object is provide means for visually indicating both
buyers and sellers of soods, which particular offer for the purchase or sale may be accepted
by each buyer or seller and alse to provide a by each buyer or seller and alse to provide a board whereby business may be transacted be-
tween buyers and sellers even if one of the twe parties should be absent and alse arranged and know by whom the offers are made.
RNVELOP AND LETTER-SHEET FOR The inventor's purpose is to provide a conheet especially adapted thereto which will admit of a folding stub forming a portion of on one or both sides to be passed through openings in the envelop when the letter or bill outer face of the envelop in a manner to
close an address, rendering it unnecessary rite or print the address on the envelop. PUZZLle-E. G. Jackson, San Francisce
Cal. In this puzale a series of slides are pe cal. In this puzzle a series of slides are $p \bullet$ numerals in irregular order, and they may then be rearranged in consecutive older by re then releasing "Tr" and "Vill" by certain of cach slide at a time these may be brought int the dsired order. Considerable ingenuity may
lee involved in accomplishing the purpose of this entertaining device.
MeTMLL DAMI--.J. L. Holmes, Eutte, Mont. The object of the improvement is to provide a
dam more especially designed for use in canyons, streams, and other waterways having terp or slanting banks. Which dam can be
ceadily set up, is exceedingly strong and durreadily set up, is exceedingly strong and dur-
alle, and is arranged to dispense almost entirely with the use of masonry and to allow o with the natural flow of water in the waterway.
I'OSTCDIECK ClRRENCY. I. D. Worto that class of currency or money which is
designed to into a check payable only to the payce named thereon. The objects of the post check cur
rency as now contemplated are not accomplished, and the system is without practical efficiency in its present condition. It is neces ers the post-check note after it has been ence ers the post-ch the has been once able to the payee named thereon lecosnizable at a slance and absolutely incapable of bein
of the unchanged post-check note. Mr. Wor EOTTLE.-R. G. Davis, Hot Springs, Ark This bottle is se constructed that after dis-
charge of its original contents it cannot be refilled. The bottle is provided with a valv which. leaves its seat to allow the liquid to
pass freely out. Should an attempt be mad t- refill the bottle by placing it in liquid or by forming a vacuum in the bottle and the inserting it in liquid, the liquid will force the valve tightly against its seat, and thus pre vent refilling.
CLOSTRE FOR AIR-SHAF'SS.-M. Schol cipal object of the invention is to provide a impreved 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 als closing the air-shaft at that puint, when de
GARMENT-CLASR-J. I. Wilson, Chicage III. The invention relates to clasps that affor gripping ends for garment or hose supporters and has for its olject to provide novel details it for a very reliable engagement with the gar ment, a void injury to the most delicate fabric the material engaged by the clasp.
PERPETLAL CALENDAR.-T. OSHAEGInessy, San Jose, Cal. The purpose of the invention is te provide a simple and accurate
orm of perpetual calendar that may be set fo ny month in any year, leap year include and in any century within the scope of the may be quickly and readily ascertained with TRIG•NOMETRICAL METTER- - I N.y Natchites La This meter is d signed for use by surveyor's in the field finding, without calculation, the distance
any remote object, or the height of an object. It is alse serviceable in schools for the clearer teaching of trigonometrical functions, since
shows for any angle the just proportions be tween the different lines within and witheit the circle to the radius.
CotPliNG. F. J. Carney, New York, N. adapted nore particularly for use in connect ing the piping of such receptacles as set
urinals. Its principal objects are to previde device of thas class which may be readily applied and removed and which will preserv
the integrity of the joint whe integrity of the joint
WHIRLING
Whirling toy.-S. ERisrow, Topeka
San. The toy consists of a cone-shaped Kan. The toy consists of a cone-shaped body,
provided with vanes around its base edge, an attached by a cord to a rod. When the toy is held in the wind, it will be forced outward by
the wind which impinges arainst the vane the wind which impinges again
calising the toy to rapidy rotate.
Shparable hinge.-S. F. Miek, New
york, N. Y. The primary object of Mr. Meek's cheap construction, wherein one of the two leaves of a hinge may be quickly connected to or disconnceicd from the other, without
removing the pintle, and at the same time the tw l leaves remain in engagement under norma conditions in the service of the article. The
hinge may be se manipulated as to overcome the practical difficulty met by experienced workmen in hanging a door by ordinary hinges
this difficulty consisting in bringing the hing this difficulty consisting in bringing the hinge ment with the hinge leaves on the jamb.
TOY.--S. Itrado, New York, N. Y. The in which a transjarent cylinder is provided having means by which a ball or other rolling -bject passes and lodges in pockets or passe through openings in any one of a series of
disks or rotating receivers mounted to revolve in the cylinder and finally passes out throug the base for the cylinder, having aperture therein and a dopression arranged around the
apertures, which apertures lead to exposed chambers in the base. any one of which may finally receive the ball.

## Household Utilities.

## HEA) OR COUCII-FF. W. Boickir, Oak

 land. Cal. The object of this invention is toprovide a bed, couch, sofa, or the like which - any desired inclination. This end the in entor altains by certain novel devices morint on the bed-frame and having connection
with a supplemental or slat frame, which is piveted on the main frame and which carrics the mattress and bedclothes.
 lia. In this patent the invention relates to
improvements in a culinary device for beating improvements in a culinary device for beating
eggs, for beating and mixing compounds for sponge and other cakes, and for beating milk
or for any kind of substance. The primary or for any kind of substance. The primary
-b.ject of the imprevement is to produce a simple, convenient, and cheap article WATER CLOSIUC BOWL-M. D. Ihlafrich Water closher sowl.-M. D. Ihalfrich
and F. W. Kivesbray, Evansville. Ind. In
his case an object is to provide a construction for washing down the closet without or with
and agitation of the contents, te avoid noise
incident to flushing the ordinary closet, and
to provide for flushing from the rim after the
contents of the bowl or trap-seal have been discharged.
Water-closet mowl-R. Schmalmace, Qansville, Ind. This invention relates to an its object being to produce a device wherein the flushing-water is divided inte twe 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 ction, as well as those without such action and materially increases the efficiency of bot
types of bowls. ypes of bowls
FovoT-TLB.-J. A. Calpwell, Rochester N . Y. The object in this instance is to pro-
vide a tub that may be readily place in an dinary or large bath-tub and having a drainipple adapted to engage in the bath-tub drainfom the foot-tub without danger of any other water passing inte the large bath-tub and $p$ sibly spoiling the same

Machines and Mechanical Devices.
DRILLING - MACHINE. - F. F. Heplifh Crescent City, Cal. Mr. IIepler's invention is
n the nature of an improved reck-drillin ma chine of that type in which a set of rotating drill-bit and the latter is turned and of the which means are provided for forcing a coninuous stream of water inte the drill-hole be
dide the drill-bit to soften the rock and to side the drill-bit to soften the rock and to
clear out the cuttings, so that the operation

ERICK-REPRESSING MACHINE.-C. W Pugif, Veedersburg, Ind. It is the object of this improvement to provide a machine which
is adapted for automatically repressing bricks with great rapidity and economy of time and with great rapidity and econemy of trime and
labor. The bricks are received upon a travel-
$\qquad$ which they are repressed and then alltomatical by which they are removed from the repress ng machine
APPARATUS FOR FORMING THREADS Y. This apparatus is intended for forming screw-threads of any desired pitch and form jects. The inventor has discovere that by pro iding a tool in the form of a disk composed - cut or grind int the glass, by diviving 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 colting maciines.-L. Jones, Columbus, Ohio. One purpose of the invention is to sup
ply each sieve having a cloth with an inde pendent cleaner. Another is to provide each sieve with an automatically-operating brnsh
which derives its impetus from the motions of the sieve-box, the same being propelled back-
ward and forward by the arrangement of its mechanism se as to subject the entire surface of the bolting-silk to the continual action of a brush or brushes, which brushes many be sus tained in position by bolts and springs

EaSket - Maciilne. ---C. Enbelf, St -seph, Mich. The invention relates to basket machines, the object of Mr. Enberg's several
mprovements being to render the machine, as imprevements being to render the machine, as
far as practicable, automatic and to present far as practicable, automatic and to present
certain points of advantage. This machine has been tried in actual practice, and it is found hat the twe hand-levers are quite adequate te hande it, thereby making its action to
SLACKTMREAD CONTROLLEL FOR SEW Lane, London, England. This invention
lates to the lock-stitch sewing-machine scribed in an application for a prior United States patent, in which all the movements are
derived from only three cams and practically the entire operative mechanism is situated beneath the work-plate. The present invention
relates to an improved take-up device for the
hread.
EARREL SOAKING AND RINSING MA CIIINE.-H. Rhinivgir, New Orleans. La. In
this case the invention refers to washing apparatus: and its object is to provide a machine
arranged to subject the exterior and lhe interior of a barrel or like package to the action of hot or cold water for soaking the package and thoroughly cleansing and rinsing the same id of skilled labor.
Stone-Sa wing machinde. J. E. Han ject of the invention is the provision of a new and impreved stone-sawing machine arranged stone block to cut the latter to any desired shape. The invention consists of novel feat
ures and is intended to efficiently serve the ures and is intended to efficiently serve the
purpose for which it is designed.
 has reference to a machine which upon chang ing the tools thereof may be employed eithe oc cutting tubing or for welding together tw in which the tube it belongs to that clas
mandrel and welding tools are driven around the outer surface of the tube at the point of
the weld. patent the improvement relates to a class wherein the jaws of the vise are closed by footpressure, and has for its object to previde character indicated which adapt it to grip an hold articles very firmly and permit their re sight wanual erort.
Prime Movers and Their Accessories STEAM-TRAP.-R. T. Tickibenhy, Lewis ner of mounting one element of the means for ner of mouming: one element of the means fo transmitting movement of the float so that thi the exterior of the trap, thus regulating the level te which the water is allowed novel diaphragm is also prorided for operating
the outlet valve, this arrangement avoidin the use of the stuffing box and the friction cooling and lumricating crank Ky. In crank-case steam engines of the usual type great difficulty has been experienced in keeping the bearings cool and properly lubri cated. The present invention provides a novel pacess and apparatus for cooling and lubri never allowed to reach a hish 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 sepa U Winslow, ona. Mr. Clark's invention is an improvement in lubricators especially designed for use in motive steam chest for the purpose of feeding graphite or other lubricant inte the valves or
cylinders of the locomotive, while the latter is cylinders of the locomotive, while
drifting with the steam shat off.
cooling mectianism for dexplosive ENGINES.-F. Rearin, Oak Cliff, Texas. Thi cylinders of internal-combustion engines and ther machinery The leading feature is and formation in or on the cylinder walls of an air passage or passages and in se arranging parts that movement of piston brings a circulation of air through this passage, such circu cool piston as well. Irreferably. and especiall in case of adaptation te internal-combusion en gines. the engine balance-wheel is formed with
fan-blades. These act at mouth of air-passage piston with respect to such conlents. Comb pared with other systems now used, this me chanism, ewing to positiveness and the ness of ail
efficiency.

## Railways and Their Accessories.

 METAL CROSA-TIE AND RALL-FAS'TEN bride, Alluquerque, New Mex. The object in this case is te provide details of construction ening means that engage the tic, whereby the cross-tie is afforded means that adapt it for the support of a heavy weight. although a in its construction; and the track-rails are held secured on said cross-tie in a reliable rails as which permits removal of the track is to se construct the fastening means that rails of different weights and thickness of rail tie. COMEINED CHECK-HOLIER AND MATCHi l'LATE.-M. I. Bictivs, New York, N. Y. Th tional device capable of use both as a check holder and as a match-plate. His invention alse consists of certain improvements in thedevice considered as a chock-hondor.. device enables a passengel to reamin und read or conduct himself in any way desired The match-plate is mounted very conveniently or his purposes.

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    COMHORND VEIHCLE-WIHEEA.
    Mrar, Oswege, N. Y. The object of the in or a wheel for use on railroad-cars, tractiondesigned to travel read-wagons, or vehicles ever soft ground on a road or in a tield and which in service will minimize the power required to propl or draw he relicle, and
    urthermore, to render the movement smooth and adapt it to maintain an upright position aveling over a rough or incline road bed PROTECTOR FOR I NECMATIC THE Burnam's invention belongs to the class of biles, bicycles, and other vehicles, which are adapted for application to the tread of such
    tires without inclosing the bedy of the sume Hres without inclosing the body of the same h" tire by taking most of the friction and wear incident to use.
    Norf. Copies of any of these patents will
    fease state by Munn \& Co. for ten cents each. lease state the name of the patentee, title of the invention, and date of the paper.

