## RECENTLY PATENTED INVENTIONS.

## Pertaining to Apparel.

CHiLD'S Cap.-Lena Steinthal, New York N. Y. The purpose of the invention is to pro vide a construction of child's cap and one
wherein the parts of the cap are permanently connected and are capable of being laid flat for purposes of washing, starching, and iron-
ing and wherein, further, the parts may be ing and wherein, further, the parts may be
quickly and conveniently drawn together and
secured to form the front and back sections of a child's cap, the two sections bein, needed for the cap's formation.

## Of Interest to Farmers.

MILKING-MACHINE.-L. B. Stevens, Logansport, Ind. A person on the stool by mov-
ing a lever downward will cause a downward movement of a piston, and as the valves carried thereby will be closed the milk will be drawn
from the udder, and then upon an upward movement of the piston the
mitting the milk to pass to we under sider the piston, and then by a subsequent downward be forced through a pipe and at the same time a fresh supply of milk will be drawn.
JOINTER FOR STUBBLE-PLOWS.-D. H Dickinson, Parker, Ore. The purpose of the invention is to provide an adjustable rolling jointer for stubble-plows which is economic in row, turn all material from the plow-beam, and effectually prevent material clogging on
the beam back of the moldboard, and which the beam back of the moldboard, and which
will also turn all stubble, weeds, and grass will also turn all stubble,
cleanly under the furrow.

## Of General Interest.

building-block.-J. Aitken, New York, N. Y. The object of the inventor is to pro
vide a building-block for the construction of walls arranged to insure the formation of ligh and air-tight joints and to reduce the weight
to a minimum and still render the block ex ceedingly strong and durable and to provide the block with air-spaces to prevent the pene
tration of moisture into a room by way of the wall.
SAFETY-ELEVATOR--J. Hart, New Or has reference to elevators or lifts; and the purpose of the improvement is the provision
of a safety device whith will operate automatically to prevent the cage or car from falling
in case of any breakage of the suspendingable.
burial-vadut.-a. h. Havard, Urbana, Ill One of the embo-iments of the invention con
sists of a box-like structure built of concrete sists of a box-like structure built of concrete
and having brace-bars imbedded therein, the whole having an inner rabbeted upper edge he vault after it is dry and hard into the grave. A metal top fits into the rabbeted edge
of the box-like structure and is placed thereon of the box-like structure and is placed thereon after the casket is placed in position. There-
after the metal top is covered with green concrete, which knits to the lower portion of the vault and forms a hermetically-sealed case.
SCOOP.-F. C. Howe, El Paso, Texas. The object of this inventor is to produce a scoop
provided with means for weighing the conprovided with means for weighing the con-
tents of the scoop, the general purpose being tents of the scoop, the general purpose being
to substance within the scoop in a scale for weigh
ng the same. The improvement refers to ing the same. The improvement refers to
scoops such as used in stores and similar etc. Mr. Howe has invented another scoop such as used as above; and the object of the improvement is the provision of a construction,
having a handle or bail attached thereto, with having a handle or bail attached thereto, with
means for determining the weight of the conents of the scoop.
Draft apparatus.-T. W. Huckle Standish, Mich. The apparatus comprises a
body to which power is applied, and is ar-
ranged to roll or climb along a holding eleranged to roll or climb along a holding ele ment, this body having adjustably attached weight, so that as the body is moved along the
holding element power is applied to the weight. By adjusting said means for connecting the bedy with the weight the power of the appa-
process of making terpin hydrate. L. H. Revter, New York, N. Y. The hydrate produced can be used as a basis for the manu-
facture of other turpentine derivatives and that by the use of this new process an impor tant industry can be developed in the United
Stales which has heretofore been exclusively carrie out in foreign countries Certain raw and waste products can be employed which have heretofore had to be refined and imported.
SAFETY-RAZOR. - W. Schmachtenberg, ew York, N. Y. The object here is to provide posed of ut few parts, not liable to easily get out of order, and arranged to permit minute adjustment of the blade to bring the cutting
edge thereof in proper relation to the guard, edge thereof in proper relation to the guard,
and to hold the blade positively against rearward motion to maintain the cutting edge in he adjus
FASTENING FOR HANDLES OF BAGS,
SATCHELS, PURSES, ETC-H SATCHELS, PURSES, ETC.-H. B. Welch,
West Hoboken, N. J. Heretofore handles West Hoboken, N. J. Heretofore handles of
bags, satchels, etc., especially of fastenings which involve the use of a bearing having a
been attached by inserting the ends thereof in
sockets, the ends being held in the sockets each by a transverse pin. That fastening is defec-
ive, as the pins pull their way out through the handle ends. Mr. Welch produces a fasten-
ing by means of which the handle may be uickly attached and secured
PACKAGE-HANDLING DEVICE. - W. $\quad$. Dennis, Denver, Col. By moving a sleeve
downward on a staff the jaws will spread apart so that they may be engaged with a box, package, or the like. Then upon releasing the
sleeve the springs will move the jaws toward sleeve the springs will move the jaws toward
each other to engage with a box, package, 'etc. each other to engage with a box, package, 'etc.
In shifting paper or pasteboard boxes, it is not desirable that the jaws shall clamp closely against the same while the box is resting on
the hangers. To provide for this, the sleeve mo provide for this, the sleeve
may be rotated so that the cam mechanism will

## Heating and Lighting.

COMBINED HEATING AND COOKING STOVE.-J. I. Hamaker, College Park, Va. By
means of the present invention the improved stove is so constructed that it may be produced at a small cost. It practically contains an warming-chamber, all arranged with a view to the grea
of fuel.

## Household Etilities.

Stirrer.-I. W. Greenwald, Frederick, The invention refers to stirring or agifor its object means of this character which may be simple in construction and applicable
to all open kettles commonly employed for cooking apple-butter or general purposes where the fluid or material should be stirred or agi-
dustless broom.-J. r. Price, Fond du Lac, Wis. The object of the invention is to
construct the device in such a way that it will prevent the raising of dust when in use. and a further object is to construct so as to enable
the handle to be adjusted upon the body of the the handle to be adjusted upon the body of the brush in such a way as to enable the straws brush in such a way as to enable the straws
or bristles to be easily reversed or replaced

## Machines and Mechanical Devices.

 HEATING DEVICE FOR SPINNING-LATHES.-R. THIEL, Lubeck, Germany. The invention refers to improvements in heating dered possible to maintain the device at aproper and uniform distance from the blank proper and uniform distance from the blank
while the latter is being spun-that is to say during the reduction or increasing of the diameter of the respective part of the blank-so that the metal is at all times heated up to the and cracked.
ROAD-GRADER.-E. Fahrney, Deep River, cha. purpose here is to proviide a ma-
chine that will plow and grade a road at the same time, in which a series of spades have rotary co-operative action relatively to the plow, cross-cutting the furrow as turned up
by the plow, which spades when they reach a by the plow, which spades when they reach a
certain point at rear of machine under action of trip devices consecutively throw the dirt inward with such a quick motion that they catter dirt in direction of the middle of the
road, thus making it smooth, the spades acting equally
Pile-fabric Loom.-H. Sarafian, Yonkers, N. Y. Mr. Sarafian's object is to provide stance, as are shown and described in the
Letters Patent of the United States formerly granted to him and bearing Nos. 752,712 and 782,178 . In order to produce the weave, it
is necessary to manipulate three warp-threads of each set in a peculiar manner and relativ to each other, and for this purpose a special
device is used. In operation of the thread on the bobbin of the shuttle unwinds to form a weft-thread at the time the shuttle
goes through the open shed from one side of the loom to the other, and when the shuttle returns the same thread on the shuttle-bobbin SAWING-MACHINE-S J Gray and Horning, Oakland, Cal. This machine is eas ily transported from place to place and is
supported directly by the object to be sawed, supported directly by the object to be sawe
thus dispensing with considerable weight. may be positioned to cut at an angle upwar or downwar or may be reversed upon its
plates when sawing close to the roots of the tree. Any suitable means may be used for im preferred form of endless saw may be use ith the machine.
loading-Machine.-F. K. Holmested Claremont. W. Va. The machine transfers any class of loose material from the ground or a produce a device expeditious and efficient operation. The invention consists, broadly a revolving wheel or platform adapted to ceive the loose material and discharge it upon
a conveyer. The platform is set at a slight combines with a sing in combines with a side plate and conveyer-belt
disposed across the upper face of said plate. Variable-speed gear.-C. E. Funk,
variable-speed gears, and is especially usefu
in connection with machines for shearing shee and the like. The object is to provide
transmission-gear, which permits the speed transmission-gear, which permits the speed limits and which allows the mechanism to be stopped or started by a simple motion of the perator.
HAND-POWER PROPELLER.-N. Johnson Chicago, Ill. In this case the invention has reference to hand-power propellers, and has
for its object the provision of means for propeling small boats upon park-lakes and similar places without the use of oars, and thereby
enable such boats 5 move about freely, without interfering with each other.
CIGAR CUTTER AND LIGHTER.-F. A. is to provide a form of cutter and lighte wherein a tension-controlled fountain for liquid fuel, such as gasoline, is provided with a wick for ignition and pivotally mounted upon the
base for movement to and from the sparking base for movement to and from the sparking
device in an electric circuit tie batteries where are concealed in the base, so as to produce a spark at the exposed portion of the wick
as the fountain is swung outward to light a moment of passage of the fountain to and from contact with the sparking device.
ball-bearing.-J. F. Springer, Girard, a bearing arranged to insure a true rolling motion of the balls, unaccompanied by sliding motion of the balls, unaccompanied by sliding
between balls and bearings, to bear heavy strains, and to allow convenient adjustment with a view to taking up wear, and more and the like, in which he main portion of the strain is approximately perpendicular to the
axis of the shaft.
Labeling-machine.-A. Marcus, Shreveport, La. In operation a bottle or package is placed on a seat. A label is then taken off
the pile and is passed over an exposed surface of the pasting-roller from left to right to uniformly with paste or glue is by continuation of the same movement quickly slipped onto the bottle in about the same plane, thus getting the label on the bottle immediately after pasting it and before it has time to curl up. Lo
cation of labels on bottles is uniformly the cation of labels on bottles is uniformly the
same by the indication afforded by the marker. same by the indication afforded by the marker.
AUTOMATIC WEIGHER.-A. MCLEOD and J. H. McLeod, Marietta, Kan. The grain is received into a stationary hopper and dis
charged therefrom into a movable weighing. hopper which is so connected with weighing automatically and the weight is duly recorded or registered, the hopper being then automatically restored to .ts first position, where ilts and discharges as before. It is an im provement upon the weigher for which the
inventors formerly received Letters Patent.

## Prime Movers and Their Accessories

 StUfFing-BOX.-M. Berecky, New York, N. Y. The object of the invention is to pro-duce a box which will present a metallic packing and absorbent or vegetable packing and in which special provision is made for conducting the lubricating fluid to the vegetable packing.
It relates to stuffing-boxes such as used for istons, tail rods, and similar moving parts.
$\underset{\text { METALLIC PISTON PaCKING. - N. }}{\text { Pres }}$ ains to metallic piston-packings, such as shown and described in Letters Patent of the United
States formerly granted to Mr. Pflaum. The object of the present invention is to provide a packing composed of comparatively few parts
and arranged to prevent leakage of steam in the cylinder from one side of the piston to the other and to compensate for all wear of the interior contacting surfaces of the ensine-cyl. nder and the piston-pack.

Railways and Their accessories.
SAFETY APPLIANCE FOR AIR-BRAKES. W. H. Winks, Baltimore, Md. In this case
the improvement relates to safety appliances or air-brakes, and has for its object to provide means whereby the brakes on a locomotive and
train of cars will be quickly applied when a switch is open or a danger-signal set should the engineer from any cause fail to note the open switch or danger-signal.
RAIL-BRACE.-W. M. Jenkins, Guthrie, oklahoma Ter. The brace securely fastens rails to the cross-ties. The brace has an anchorage underneath the tie. There are many advantages. Each tie is firmly anchored at
cach end to the two rails, so that the rail is cach end to the two rails, so that the rail is
immovable against all strains. There is great aving in spikes, and as the ties are not pierce creased. Stability of the track also increases afety of travel and avoids much loss of life
nd property. Tension of rail-joints is main tained which deadens sound and avoids all
initial looseness. The brace will allow the initial looseness. The brace will allow the
height of the rail to be increased without dangeight of the rail to be increase without dan
ger of the turning. Railway-tie.-E. A. Rasmussen, Hot
Springs, S. D. In this patent the invention has reference to improvements in metallic ties and rail-fastenings for railways, the object
being the provision of a metal tie that will be
comparatively light, yet strong and serviceable, and having novel means for securing the rails interior filed or packed with dirt, cement, or the like.
COMBINED TIE AND RAIL-FASTENER.e. P. Beligman, Concordia, Kan. The improvemeans for securing the track-rails. The object had in view is to provide a tie and rail-fastenng means which shall afford improved securing means for the rails and prolonged use of the
tie over all similar ties and rail-fastening tie ove
means.
METALLIC TRUCK FOR RAILROAD-CARS. F. Gebhardt, Alliance, Ohio. The invention described in the application for Letters Patent of the United States formerly filed by Mr. Gebharat. The object of the present invention is to provide a truck for cars which is o provide a solid bed for the car-body to rest on and to readily accommodate the draw-bar

## Designs.

DESIGN FOR A FRAME.-G. H. RICE, New York, N. Y. In this ornamental design the inin the interior of the frame. Exteriorly the rame presents an almost square appearance secured by the four corners being extended and
capped with scrolls. Mr. Rice has also de. apped with scrolls. Mr. Rice has also de-
igned another frame with nearly identical signed another frame with nearly identical
ines and scrolls (the latter six in number), excepting that the frame adopts an oval inerior and an oblong outer form.
Note.-Copies of any of these patents will please state the name
 e invention, and date of thls paper.
Notes
Not
and Queries.

## hints te correspendents.

Names and Address must accompany all letters or
no antention will be paid thereto. This is for
not infor


 $5=$
 mrice.
$\begin{gathered}\text { Minerals } \\ \text { marked or for examination should be distinctly }\end{gathered}$
lated.
(10331) A. C. L. asks: Is it possible convey a current of electricity from a bat-
tery, stored in a locomotive, to the rail, tery, stored in a locomotive, to the rail,
through the axle and wheel? Does not the -il bearing interfere with a perfect connection? A. We presume it is possible to convey the rail through the axles and wheels, though we never tried the experiment. We think so,
because the current from the overhead trolbecause the current from the overhead trol-
leys goes through the motor and the axles to the rail and returns to the power house in hat way onls.
(10332) W. J. C. wishes to know how to remove indelible ink marking from clothing. A. Inderible inks are of such variable charac-
ter that it is impossible to reply. Many of these inks have nitrate of silver as a basis in this case, a solution of hypesulphite of soda might help. Some other inks might possibly
be bleached out with javelle water and weak me bleached out with javelle water and weat
muriatic acid; this can be used only on white goods, as most dyes would be destroyed. Pos
sibly also a solution of sulphurous acid might (10333) G. B. D. asks: Can you tell me how to construct a lamp or light that device). Any hints how to prof an electric
donder will appreciated. A. Any lamp will burn under water if protected from the water and supplied with air. We do not know any other way to produce a light under water. An elec-
tric light does not need air, a fact which renders it easier to have light under water by you. The metal potassium will barn under Nater. No means has been devised for util
izing the fact for illumination. Its cost (10334) K. T. asks: 1. Is it possible to synchronize a dynamo and a motor, the latter un by the former, with or must closely synchronize with the dynamo motors need not directions for building a simple and inex pensive model to illnstrate the fact? For my
purpose the minimum spe 600 revolutions a minute and the maximum

The sensitivity ought to be maximum

