## RECENTLY PATENTED INVENTIONS

 HardwareTRACE-FASTENER.-W. Freeland, Brook lyn, N. Y. The object of the invention is to
provide a spring catch, which, while cheaply constructed, will be so durable as to stand the har usage to which it is necessarily sub-
jected. The spring is fully protected from ough usage, and cannot be struck and broken or jarred out of place. No rivet or otb
fastening is required to hold it in place. DOOR-LATCH.-I. D. Beach, Marblehil!, Mo. In this door latch a spring-pressed latch formed of the same piece of wire rod, and may be combined with a rockable
lever adapted to work the latch-bar.
SaSh-fastener.-W. R. abrams, Port and, Oregon. This invention relates to a de
ice for fastening window sashes a justably vice for fastening window sashes adjustably
together. It comprises a bolt arranged to engage the sash and controlled by a peculiarly formed lever having connection with the bolt
to throw it from one position to the other.

Machines and Mechanical Devices.
MACHINE FOR TURNING IRREGULAR FORMS.-A. Lehmans, New York, N. Y. The Invention provides a machine for automatically
turning irregular forms, such as tobacco pipes turning irregular forms, such as tobacco pipes a rotary cutter. A model on this frame bear against a circular disk, to which it is held by the work which must bear the same relation to the cutter as the form does to the disk.
Clutch.-J. Ternblell, Dundee, scotland. In this clutch the advantages of friction en gagements are combined with those of a posi
tive or non-slipping drive. The invention com prises two cones fitted to slide one upon the
other, one of the cones being chambered and provided with grooves in its peripheral wall A head fits into the chamber of the cone and
is provided with pivoted and spring-pressed fingers engaging these grooves. The fingers ar disengaged by a ring which can be operated to slide over and depress them.
ditching and dredging machine. C. E. Wilson, St. Louis. Mo. In ditching, the wheel lying partly in the ditch. The wheel has along its periphery a crown-gear which engages a driving pinion. Each loaded bucket as it is carried to the dumping position strike
a latch which releases a chute and throws it a latch which releases a chute and throws it
laterally so that the load it receives will be dredging, the machine is mounte on a suitabl vessel, and owing to the chutes which are tiltable to either side, the material may be
conveniently dumped into scows lying alongside the vessel.
FEEDING MECHANISM FOR SEWING-MACHINES.-F. O. Berg, Spokane, Wash The invention has for its object to provide a
simple device operating to draw the stitched goods from the machine, thus leaving both hands of the operator free to feed the goods
to the machine. This is one by mounting a to the machine. This is done by mounting a pair of drawing rollers back of the needle,
which are operate to hold the material taut. elevator.-W. J. O'Byrne, Catoosa, In in which buckets are employed on a traveling in which buckets are employed on a traveling
belt. Aprons are employed on each side of
the buckets to prevent particles of stone or belt. Aprons are employed on each side of
the buckets to prevent particles of stone or
other material from falling between them and the belt.
RAISING AND LOWERING APPARATCS FOR MINES OR THE LIKE.-D. Davy, Shef field, England. The invention relates to conlowering in mines, and the improvements ain to allow longer pauses to be made by the
cages at the top and bottom landing stages, cages at the top and bottom landing stages,
for the purpose of affording more time for for the purpose of affording more time for
loading and anloading without interrupting loading and anloading without interrupting
the movement of the chains and their driving gear. The cages are suspended from slings attached to the chains. On reaching a landing point, each cage is set down and detached from the sling by which it was brought to that point, and after remaining there at rest,
while the chains travel a distance equal to that between two consecutive slings, the cage is picked up again by the next succeeding sling of the series, carrie to the next landing poin and there deposited, to be picke up again by
the next sling. TYPEWRITER.-J. B. Vidal, Havana, Cuba. The improvements are made in the keyboard
which aim to facilitate rapid writing. The outer keys for each hand are slightly higher than the middle key, so that the little finger, thumb and other short digits, can reach the keys with as little effiort as the long finger.
For the fingers that are not much used, and For the fingers that are not much used, and
therefore clumsy to manipulate, the keys are provide on guides.
MAN
Wendtland-TRMMER.-C. Wagner and $\mathfrak{V}$ comprises a set of knives operating in con junction with a mandrel for trimming th
tubular fabric, one set of knives being arranged to advance and cut a portion of the fabric, and then recede a little to hold the latter in position, while the other set advance and cut the MACHINE FOR PREPARING PAPER FOR MACHINE FOR PREPARING PAPER FOR
STEREOTYPE MATRICES.-R. M. SEVBRE,

New York, N. Y. The machine comprises a in which a number of independent rollers are journaled for the purpose of carrying moving wure-rollers are provided for anensive. Pres webs together, and separate rollers feed dry webs of paper above and below the immersed
webs arriving from the pot. The product is webs arriving from the pot. The product is
hen cut by a cutting mechanism near the pressure-rollers.


## Miscellaneous Inventions,

WaShboard.-W. H. Maner, Franklin, renn. The washboard is curved about a longi-
udinal axis, the radius of the curve con ponding to the ordinary washtul, so that when placed in the tub the washboard will lie close to the operator. The central trough causes the water and suds to flood the clothes
better and drains the water away from the better
sides.
scraper.-D. e. preston and w. h. atkinson, Omaha, Nei. The scrapers are used
in pigs'-feet-cleaning and aim to effectively and quickly clean pigs' feet, pigs' heads and rimming with the knife, and without dange of cutting the article.
ChUTE.-W. L. McCabe, Tacoma, Wash. This Invention relates to means for delivering goods by gravity along an inclined chute into descent of the goods, so as to avoid dropping them rapidly down the incline. This end is attained by providing brake-boards which run
longitudinally along the chute and may be longitudinaly along the chute and may be
pressed with any desired degree of force against presse with any desired degree of force against of the chute.
quilting frame.-B. F. Muriay, Cleve and. N. C. The quilting frame can be quickly ing, and compactly folded when not in use. COMPOSITE MATERIAL.-E. C. HEGAN Louisville, Ky. The composite material con
sists essentially of two layers of veneer ce sists essentialy of two layers of veneer ce
mente together by a coating of gypsum. The material may be bent in tubular form and used for columns in the manufacture of furni-
ture and the like, plugs of wood being secure in the ends of the tube, and each plug formed with a central dowel pin for fastening the WASTE - WATER
$\begin{array}{cc}\text { WASTE-WATER } & \text { RECEPTACLE ANI } \\ \text { DISCHARGE-TRAP } & \text { FOR ICE-BOXES OR }\end{array}$ DISCHARGE-TRAP FOR ICE-BOXES OF
THE LIKE.-J. J. HICKEY, New York, N. Y The invention provides a simple and practical from the lower portion of an ice-box. A box Tke receptacle is held on the lower side of
the ice-box, and an escape pipe depends from the ice-box into this receptacle. A cup covers
the end of this escape pipe, which affords a water seal to rrevent foul air from entering
the ise-box. The water passes through a nip
ple in the bottom side of the receptacle,
U-shaped trap and thence to the sewer.
WASTE-WATER RECEPTACLE AND CON NECTION.-J. J. HICKEY. New York,
The waste-water receptacle has an openin The waste-water receptacle has an opening in
its bottom wall through which the water es capes. A screen covers the opening, compris
ing a cylindrical wall having openings therei ing a cylindrical wall having openings therein and a series of tapered tongues on the upper
end, which are bent inwardly to close the end. CHAIR-TRUCK-R. and F. E. BIGELO W, anwert, Ohio. The invention consists of rolle
attachments or wheel supports for rocking attachments or whee supports for rocking
chairs used by invalids. The truck is com chairs used by invalids. The truck is com-
posed of two wheels and two axle sections which are adjustable lengthwise upon each
other and provided with depressions adjacent other and provided with depressions adjacent
to the wheels for receiving the chair rockers. face protector.-Mary longden, St. Oswalds, Ballingary, Ireland. The invention aims to protect persons who are exposed to the danger of inhaling poisonous gases, smoke etc. The face protector comprises a body o
flexible material having a central opening, an above the same a nose strap provided with flexible piece of metal which is adapted t
conform closely to the nose. Pieces of wir conform closely to the nose. Pieces of wire netting
MEDICINE-APPLICATOR.-B. A. WASH buns, Wickliffe, Ky. The instrument is used prises a tube adapted for insertion in the vagina and open at the insertable end, a cup like medicine holder which is adapted to slide in this tube and a plunger which is operate
to force out the medicine. SCREEN FOR PAPER PULP.--S. H. TIB Betrs, Groveton, N. H. The invention comprises a means for fastening screen-plates in
the cradle of a paper-pulp screen, withoit the aid of screws. a series of cross-bar having undercut notches, are placed in the
bottom of the cradle. To these the screens bottom of the cradle. To these the screen
are secured by retaining-bars having trunnions which fit the notches in the cross-bars. and grip the lips on the under surface of the screen-plates.
TIRE.-Mary E. Brooke, Denver, Col. The tire consists of a core having a solid tread with transverse disks or lugs spaced
apart, and a casing fitting over the core. The inner lining of the casing is pressed partially into the spaces, the disks overiapping their
edges, and bracing them against displacement. edges, and bracing them against displacement
When applied to the wheel, the tire may When applied to the wheel, the tire may
secured by a tie-rod passing threugn opening in the disks along the inner periphery of the tire.

ROD-SWab.-J. O. Dauphin, Rat Portage Canada. The invention aims to provide
device for effectually wiping rodds which move through stuffing boxes. It consists of a cir. cular case formed in two sections hinged A circular spring passes around the swab, and holds it properly in engagement with the rod.
The casing is arrange to be fastene to the The casing is arran
stuffing box

MAIL CATCHER AND DELIVERER.-J F. Mills, Jr., and C. F. Firmis, Port Chester N. I. In this invention two corresponding
devices are used, one on the car for catching the mail-bag suspended near the track, and the other placed near the track for catching
the mail-bag suspended on the car the mar-bag suspended on the car. The a bag is brought into engagement with the open gripping arms, they will instantly close, and hold the bag untll purposely released.
at the same time the gripping mechanisim At the same time the gripping mechanisın
will automatically turn to a position paralle with the track.
FLIER.-J. J. McOsker, Woonsocket, R. I. The flier is so arranged that it is much
easier and cheaper to construct than those heretofore used and may be driven at a higi speed
fectly.
method of filling preserve BONES.-E. Besse and L. Lusin, Paris
France. The tins are first filled with the portion of the foodstuff. They are then sub merged in an air-tight compartment filled with the liquid which is to forns part of the preserve. An air-pump exhausts the air from the into the tins as soon as the air re-enters the compartment. The hole in the cover is then closed by a drop of solder.
feed-bag.-G. L. Dale, New York, N. Y. Means are provided in this feed-bag for con-
trolling the supply of feed to the animal. In the ordinary feed-bag the food, when partly consumed, is aggravatingly out of reach of the to reach the food, such as tossing the head in to reach the food, such as tossing the head in
order to catch the food "on the fly," resulting in considerable waste. In the improved feed bag the oats are delivered gradually from a reservoir, by valve devices operated by the pasel.-C. P. Mueller, Dallas, Texas This easel is so arranged that the drawing board may be readily raised and lowered or etherwise adjusted at
venience of the artist.
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