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## RECENTLY PATENTED INVENTIONS.

INSULATED SUPPORT FOR WIRES. - L teinbereer, Ne York, N. Y. The invention pertains to insulated clips, the more particular attain certain advantages. The principal obect is to insulate the conductor-wire from the langer devices, span-wires, and poles and also to prevent arcing, surface leakage, and ground-
ing of the current. The ear may be readily eplaced when worn out. The insulating-body nember will last indefinitely.
INSULATOR.-L. Steinberger, New York,
N. Y. In this instance Mr. Steinberger's imN. Y. In this instance Mr. Steinberger's im-
provement relates to insulators for external use, and more particularly to the type comWith many of the feed-wire insulators now in se considerable difficulty is found in securing nsulation, especially where curren of hig an insulator which has considerable strengt and in which every precaution is taken agains leakage of the current.

## Engineering Improvements

ROTARY EXPLOSIVE-ENGINE.-B. B vention is in the nature of an improved The in designed to actuate under an explosive mixture, reversible under two or more propelling impuises in a single revolution, and it primarily seeks to provide an engine of this character of a simple, compact, and durable nature, connections are dispensed with and in which the parts are co-operatively the action of reversing speed can be quickly accomiplished.

## Heating and Lighting.

SAFETY GAS-COCK.-H. J. Dole, San Francisco, Cal. In this instance the invention
pertains to improvements in safety gas-cocks pertains to improvements in safety gas-cocks ;
and the object of the inventor is to furnish a simple device which will insure the complete shutting off of the gas when the key is turned and which will aiso provide means for regulating the flow of gas independent of the key. VAPOR GENERATOR AND BURNER.-Q. Crane and J. Restine, San Diego, Cal. Thie vapor apparatus belongs to that class of gen
erators and burners emploged for heating pur

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oses, and the object is to provide features of pensive, practical, and convenient generator and burner that may be placed in the firechamber of a heating-stove, a kitchen-range, or
a steam-boiler for the generation and combustion of gaseous fuel therein from hydrocarbon tion of
liquíds.

Machines and Mcchanical Devices. rinciing and shearing machine, ETC.-R. Norris, Langoon, British Burma, India. In order to obviate defects in other
machines for cutting metal, Mr. Norrie has devised a special form of shears in which insteed vised a special form of shears in which insteeid tween two other cutting edges, which has the effect of shearing out strips of the material boing cut. This blade is mounted so as to en-
alle the material heing worked to pass on either side of it, which enables any length of cut to AU'ONIATIC WEIGHING-MACHINE. - W. Brovegi, Raltimore, Md. In this patent the veighing-machines, and is especially designed for use in weighing granular or pulverulent or powdered substances and may be employed to dvantage in the weighing of coffee, tea, sugar
liquid-measure.-II. J. Brantley, Valdosta, Ga., and J. C. Bheantrey, Marksville, Miss. The invention is an improvement paricularly in that class of measures illustrated in an application for a former patent filed by
these inventors. The present invention relates to implovements in the construction of tha measuring vessel, in the connections thereof with the barrel or cask, so the measuring vessel can be leveled when applied for use, in the means for vending the measuring vessel ana the cask, and in other improvements.
ADINNG-MACHINE.- ${ }^{1}$. Buresh, Mapleleaf, Iowa. The purpose in this improvement is to provide a reliable machine of very simple construction and which may be conveniently and quickly operated and applied directly to the columns of figures to be added, and further, to
provide an indicator which as the machine is provide an indicator which as the machine is
moved down a column to be added will be at the right or at the left, or which may be made to cover or conceal the last figure added.
Yhrimeading Device.-S. B. Battey, New the improvement is to provide a threading device designed either for hand use or for use on sewing-machines to automatically push the sewing-thread through the needle-eye whenever the device is in active position and the needle moves into an uppermost position. THREADING DEVICE FOR SEWING-MA-Chines.-S. b. Batiey, New York, N. Y. In this patent the purpose of the invention is the provision of an improved threading device for sewing-machines arranged to automatically hence requiring no stopping of the machine for threading purposes. The operator may throw the threading device into action at any time in case the automatic thread-controlled device ECCENTRIC-SCREW BREECH-CLOSING DEVICE.-P. de Nordeneely and E. Teriström, 8 Rue Auber, Paris, France. In this patent the invention relates to an arrangement for facilitating the operation of the eccentric screw, particularly in heavy ordnance. . En-
deavors have already deavors have already been made to facilitate such operation by means of bearing-balls on
which the screw turns with less friction. How ever, this means is only an insufficient pallia tive in the case of heavy ordnance, because it does not diminish the variable resistance arising from the eccentric position of the center of gravity of the screw relatively to the axis SIILF-fHREADING SEWING-MACHINE. Dr. Sumter B. Battey, 152 W. 49th Street, New York, N. Y. To do away with the perplex ing necessity of any hand manipulation in threading a sewing machine, the inventor has
devised a novel and simple construction of sewdevised a novel and simple construction of sew-
ing machine, the salient feature of which is the ing machine, the salient feature of which is the vice. This mechanism comprises a rocking lever, fulcrumed in a vertical slot on the inside of the machine head and operated by a cam in the periphery of a cam disk. The method of operation is as follows. When the machine is started, and the needle-bar in its travel upward has reached the height of its stroke, the cam, which is an off set and at the same time a continuation of a groove around
the cam disk, engages the upper end of the the cam disk, engages the upper end of the
fulcrumed lever and causes it to rock outward, thereby imparting an Inward motion to the lower end of the lever and passing a plunger, carried by the lever through a guide way for the thread. The thread is thus pushed through the eye of the machine needle, whereupon it is caught by a rotating hook. The needie is then completely threaded before it enters the cloth, the entire operation taking place before a complete revolution of the machine has been combeen made. The whole mechanism is thrown out of operation at near the end of the downward stroke of the needle bar and does not work again unless the thread breaks, when peated by mere touching of a button. SHUTTLE-THREADEF.-O. R. JACQUBS,

Manchester, N. H. The object in view is to provide a sanitary device adapted to pneu a shuttle. Mechanical means create a suction in a direction to draw a thread through the eye, and this saves the operator placing an unclean shuttle to the lips, so as to create a suction by inhalation for threading the shuttle and overcomes the inhalation of particles of ous to the health
MACHINERY FOR THE MANUFACTURE of horseshoe-nails.-J. M. Laughlin Fourchambault, Nievre, France. By this ma shed nails of of nalls or nall-blanks or fin ished nails of the French, American, and other that the rods from which the blanks or nails are to be cut may be rolled of any form to suit he type of nail-blanks or nails to be:made For instance, the rod intended more particuarly for making French nails may be rolled so as to present the same profile on both-faces The machine is also adapted for directly cutting out completely-finished nails. The nails mande from a wire or rod of wrought-iron r mild steel rolled ether hot or cold. FAN ATTACHMENT FOR SEWING-MA Chines.-M. Steiner, New York, N. Y. The object of this invention is to provide means or fanning the operator, and in attaining this end the inventor provides a peculiarly-con
structed fan which is attached to the shaft carrying the fly-wheel of the machine, or to the fy-wheel itself, so that as soon as the machine s operated the fan is turned and a current o air is produced.
CONCENTRATOR.-B. McL. Storey, Weed ing Water, Neb. The invention refers to conentrators such as shown and described in the applica tion for former Letters Patent, filed by Mr. Storey. The object of the present inven treating materials from stamp-milla or from als from the tailings.
GOVERNOR FOR FEEDERS OF THRESH ing-machines.-W. C. Peterson, Geneva an adjustable of this inventor is to provide that it can be folded under the feeder when desired and a feed-roller and shield for the same by means of which the amgunt of grain being fed to the cylinder ts regulated and con trolled automatically after the amount o? pressure required to raxse the shield has beem determined upon
Centrifugal machine.-M. De mar cheviles, 44 Rue de Chateau Landon, Paris, France. In this patent the invention refers to a centrifuga is in the form of a truncated basket or drum is in the form of a truncated while the smaller base is entirely open and, unlike the usual form, devoid of internal flange, thus permitting the use of an extractor having an alternating rectilinear movement and capable of passing completely out of the drum, which in consequence of its form will retain the material under treatment, notwithstanding he absence of any internal flange.
TREADLE MECHANISM FOR LIGHT MACHINERY.-J. Wiebe, Whitewater, Kan. The object of this improvement is to provide mechanism more especiainy designed for use machinery, the mechanism being arranged to nable the operator to turn the main shaft of the machine to be driven for a consłaerable length of time without much physical exertion on the part of the operator
PACKING-MACHINE FOR PLASTIC MA terials.-J. C. Thom, Helmetta, N. J. This invention relates to improvements in machines or packing material into jars, bottles, cans, or ther receptacles. In packing plastlc or damip material-such, for instance, as snu-consid erable difficulty is found in that the material and retards the packing, and therefore one obect of the invention is to provide a novel form of conveyor by means of which the above difficulty is overcome.
RULLS HOR USE IN THE PKUDUC"TIUN OF SHEET-METAL STRIPS.-G. B. Johnson, 8 Victoria Street, city of Westminster
London, England. This invention pertains to mprove ingland. This invention pertains to or rolling sheet-metal strips to a curved, re versely-curved, or other form in cross-section for fencing standards, "droopers," and pales, uttering, sash-bars, and the like) for which revious Letters Patent were granted to Mr Johnson; and the invention has for its oblec o obviate rubbing friction on the opposite $s^{\text {td }}$ des of the strips consequent on differ
TILE-MACHINE.-D. E. Forton, Evart Mich. By means of this machine tile may be readily and accurately formed. In operation the parts being assembled, the cement is en-解 The spiral flange carried by the core forces the material downward, first to the bottom, and the main portion of a tile the upper enlarged the main portion of a tile the upper enlarged
portion will be formed. The tile is readily re moved, or the sections of the outer casing mas be separated therefrom, because of the paper hining, which preven
music-leaf turner.-P. Engalking the principal objects of this Improvement is

to construct a music-leaf turner which may be used in connection with any sort of a musical instrument, such as a pian or a viohn, and shall have the parts so correlated that the music will be turned sheet by sheet.
KINETIC-ENERGY MACHINE.-E. L. N. Denis, 135 Boulevard Menilmontant, Paris, this application for a patent is relative to a system of mechanism;acting on the principle of vis viva, the movement of which is desmiodromical, and which is applicable to punches, scales, cutters, hammers, and the like. The invention consists. of a mechanism of transmission between a heavy body and a gearing-shaft aving a
WEIGHING AND PACKAGING MACHINE. -T. J. Brough, Baltimore, Md. Mr. Brough's invention is an automatic machine adapted for measuring and weighing pulverulent substances
or those of allied character, such as tea, coffee, or those of alted character, such as tea, collee,
spices, etc. The material being measured and weighed is prevented from being packed, through the operation of means practically self-discharging and at the same time that duly agitate and remove the material from the hopper.

## Of Interest to Farmers.

COTTON-S'FALK PULLER.-C. R. Smith, Gonzales, Texas. The intention in this instance is to provide a construction by which a powerful pull may be exerted on the stalks roots as the machine crosses the field, whereby the stalks may be collected and cremated for the stalks may be collected and cremated or
the destruction of insect pests, such as the cotton-weevil, and the ground may be prepared without the labor of first plowing to eliminate the cotton-stalk roots.
DISK CULTIVATOR-PLOW.-E. B. Lee am C. H. Beazley, Leesburg, Ga. One of the pri cipal objects of the inventors is the provisio of means found in cultivator-plows of the dis: form and also to provide a plow of this char acter which is simple and comparatively inex justed, and comprising but few parts not liable justed, and comprising but few parts not liable
to get out of order or become easity broken or dislocated. Soil of any kind may be admirably bedded and otherwise operated upon by the use of the improvements.
CUTTER-BAR FOR MOWING-MACHINES. W. W. Jones, Downs, Kan. The purpose in this case is to so construct a cutter-lar especially adapted for field-machines that the sickle-bar
wi:I bave a uniform and firm support throughout the length of its travel and in operation will be protected from dust, gum, or any material likely to crowd its action, thereby insuring the least possible amount of friction and
enabling both bars to be made lighter and wear enabing hoth bars
longer than usual.
HAY-PRESS.-J. C. DAARON, Roanoke, Va. Mr. Damron's invention is an improvement in
baling-presses especially designed for baling baling-presses especially designed for baling
hay, but which may be used for other material when desired. In caryying out the invention he employs a hale-box, together with suitable framing for the press, which bale-box and framing may be in general respects and șome exceptions, of ordinary construction.

## Pertaining to Vehicles

Pertaining to
STEERING-GEAR FOR MOTOR-VEHICLES -L. Renault, Billancourt, Seine, France. In this instance the invention has reference to steering-gear for motor and other vehicles; and
the improved apparatus presents the advantage the improved apparatus presents the advantage of realizing a steering almost completely irre versible, very solid, and not wearing away, since the screw works normally without the inter vention of a lever-arm. Furthermore, the cylin
drical screw permits of employing a nut of very great length and bearing consequently on a large surface.
BALL-BHAKING WHEEL-HUB-B. P. YoU NANS and H. W. Rand, Vancouver, Wash. In provement the invention has cles; and the object the inventors have in view is the provision of a construction adapted to be readily applied to ordinaty wooden hubs of any size and style which insures easy running of the hub on the axle shly oughly dust-proof

Rallways and Their Accessories.
SWITCH MECHANISM.-J. W. Osborne Exeter, IIL. In this patent the invention relate to improvements switch mechanism for rail ways, the object being to provide a mechanism
of this character of simple construction that may be operated in one direction by a device carried by a car and under the control of the motorman or other attendant
INCLINED RAILWAY.-S. E. Jackifa: New York, N. Y. The aim in this invention is allow two cars to race by their own momen tum down adjacent tracks to afford exciting rides for the passengers, especially as it is
possible for the car on the outer longer track, possible for the car on the outer longer track loaded heavier than the car on the inner short er track, to outstrip the car on the shorter of inner track. Mr. Jackman has invented an other inclined railway. wherein the object is to provide a switch-back railway arranged fo adjacent separate continuous tracks, crossing each other twice above grade and in reverse


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order, to render the tracks approximately alike
in length, in inclination, and at the crossing in length, in inclination, and at the crossing reach the station first
CAR-SEAT.-B. Repsdorph and W. H Bub CAR-SEAT.-B. Repsdorph and W. H. Bur-
ton, Houston, Texas. In this patent the inrov, Houston, Texas. In this patent the in-
vention is an improvement in car-seats, being espectalls intended to provide a novel construction whereby seats and the backs thereof may be adjusted to form a bed for use when desired. The backs are upholstered allike on both sides, and one back will operate as a pillow for the passenger when the parts are adjusted.

## Miscellaneous,

Shoulder-pad.-H. Laving, New York, . Y. The invention pertains to improvement in shoulder-pads for coats or like garments, an maintain provide a pad so constructed as fom one edge to the other thus preventing any abrupt depressions in the shoulder portion of a coat or the like in which the pad may be dace
distance or range-finding instru MENT.-T. Adamson, New York, n. y. Mr Adamson's improvements are intended mor
especially for use upon marine vessels and the like, and the principal object is to provide an instrument of this kind whereby the navigator is enabled to ascertain at any time the distance of the vessel from a given distant point aheadas a lighthouse, for instance-and also to like Wise ascertain the distance the vessel will be CHART OR PATTERN FOR CROCHET work.-Emily C. Faust, Kasson, Minn. In this inseance the invention has reference to ap provide a new and improved chart or pattern more especially designed for use in crocheting jackets and like garments and arranged to guide the worker in such a manner as to insure the formation of a well-fitting garment.
pocket developing and fixing de In this. R. R. LUTZ, San German, Porto Rico In this patent the invention pertains to a port
able developing and fixing device; and one ob ject in view is to furnish a compact construc tion adapted to be easily carried in the pocket, and to be used in the daylight for developing, waskin, and this phogaption of injurious light-rays.
jar-closure.-C. h. Nicholson, New York, N. Y. The object of the improvement is provide a jar-closure which is simple an
durable in construction, cheap to manufacture and arranged to hermetically seal the jar and preserve the contents thereof against deterioration. To open the jar, an air passage is easily fortng through the exposed rubber ring by in beveled edge of the $V$-shaped rim of the cover
pessary.-F. l. Priest, Dallas, Texas. The invention relates to mechanical means for supporting the womb, relleve menstruation, and provide for drainage in ulceration. The appnit may be conveniently self-applied or removed and worn without discomfort any length of time, and will afford safe and relliable means or the application of medicaments to disease parts, or a tampon to check hemorrhage.
MATCH SAFE AND LIGHTER.-C. F. A. Caxmann, New York, N. Y. The object of the and 1 ion is to provide an improved match sal and lighter arranged to permit of conveniente Earticles or sparks fiying into the room and firing curtains and the like and to allow of holding the match in position for convenient specially in the night. STEREOSCOPE.-w. F. Folmmr and A. M. Lawrence, New York, N. Y. The purpose in the present case is to provide a stereoscope so constructed that a view, no matter of what placed in the instrument without the object being mechanically reversed, as is customary, and through adjustment of the lenses to opti cally reverse the object, whereby to obtain proper stereoscopic effect.
Nort-Copies of any of these patents will be
furnished by Munn it
Co. for ten Cets
 The Current Supplement. The current Supplement, 1465; opens with the first installment of a very exhaustive description of the Edison Portland Cement Works, illustrated by a full set of photographs and diagrams. "Grape, Raisin, and Wine Production in the United States" is the title of a well-illustrated article continued from the last number. The list of grants made by Carnegie Institution is continued. The Paris Automobile Show is made the subiect of an article by the Paris correspondent of the Scientific American, in which he discusses novel details of construction which distinguish some of the vehicles exhibited. The usual Engiaeering Notes, Trade Suggestions from United States Consuls, and Selected ormulæ will be found in their accus tomed places.


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