RECENTLY PATENTED INVENTIONS. Agricultural Implements
Plow.-Carlo O. Datiman, Chicago, Ill. Briefly tated, this plow embodies in its construction a mold board having an endless belt traveling over its turning face which, in the forward movement of the plow, car-
ries the earth rearwardly, whereby the friction of the ries the earth rearwardly, whereby the friction of the
earth is decreased, and the moldboard is kept scoured earth is decreased, and the moldboard is kept scoured
Snitable guards are also provided for guiding tbe uppe and lower edges of the helt.

## Engineering Improvements.

 Stean-engine.-Locis Dalla-Decimas, Courbe voie, adolphe Kecheur, Billancourt, and Auguste Hagnaud, Cognac, France. This invention provice common central chanber, each cllinder having two passages leading respectively from its inner to its oute end. A valve controls each of the passages. To piston have a rectilinear reciprocating motion. Fach of the pis ons carries at its outer end a head provided with atrans verse slideway, engaged by the crank-pins of rotatab pinions. A gear-wheel rotates upon the axis from whic the cylinders radiate, and engages the pinions. The ro-tation of the gear-wheel controls the motion of the tation of
valves.

Mechanical Devices
DADOING AND TENONING MACHINE.-ALOI Oohler, New York city. The purpose of this inver tion is to provide an improved machine by means of casings may be cheaply and rapilly produced. The apparatus coneista of a frame slidable upon the main frame of the machine and carrying two shafts, one provide with the dado-heads and with a cut-off saw between the eads. and the other provided with the tenoning head he frame can be moved toward and away from the nck placed upon the working-table. The device conmay be so set, that accuracy and uniformity of the work may be attaned with the use of ordinary labor
WaVE-MOTOR.-Join W. Pitrs, Hueneme, Ca his invention provides a wave-motor having a hoot or mast attached to the gearing, so that the diversities of ovement occurring between the frame and the vess will be transmitted to the gearing in a manner adapted for practical use.

## Rallway Appliances.

Air-brake.-William T. Hamar, Atlants, Ga biston of the triple valve of an ant in the ma ystem, used for the purpose of passing air from rain-pipe to the auxiliary air-reservoir located on the car in the position of "brakes applied." The invention provides means for recharging the auziliary air-reservoir hile the brakes are still appied or before the airis disharged from the brake-cylinder, so that the auxiliary ork at it normal prese in a he brakes, immediately a fter the brakes are taken off.
AUTOMATIC SIGNALING MECHANISM FOR ocomotives,-Mason A. Bamborouge, Clicag III. The object of this invention is to proride a signa ing mechanism for locomotive engines, which is designe desired, at or near stations, crossiugs, switches, or othe laces. In connection with the locomotive whistle lever is is coscersly wringed extenas downwardly. lever is transversely arranged beneath the loco and swinging freely from the outer end of the lever, is dapted to engage a trip-block alongside the track, so a to operate the whistle or gong.

Niscellaneous Inventions.
BOTTLE-STOPPER. - Urish L. Rife, Newport, R. I. This bottle-stopper has a plug adapted to en rom the plug and has a number of longitudinal slit orming fingers. A buebing of yielding material sur length of the bushing so as to prevent buckling. A'ste novable through the plug has a bulb ar its lower en to expand the slceeve, a head on its outer end, and a pring between the head and the plug
CRate.-Edward S. Shellhouse, Carey, O. The
olding crate provided by this inventor has a base consposed of parts rigidly connected, with sockets in eriorly located at the comers. An apper folding sec tion having side pieces is also provided and has a hinged
connection with the corresponding parts of tie baseection. End pieces are adapted to rest upon the end portions of the base-section, and have corner-posts ar ranged to enter the sockets in the base. The corne posts are formed with ledges on their upper endes, upon which ledges a covering-piece is adapted to rest. This
covering-piece is provided with a door. Locking-ie covering-piece is provided with a door. Locking-ieices connect the side-pieces of the upper section with
the end-pieces of the upper section.
Jar-closure. - Join Schies, Anderson, Ind. his invention aims to provide a simple and novel form neck conformed to and co-operating therewith, by which a secure and tight closure is effected, the whole presenting an attractive appearance. By employing a clamping bar or rod of especial construction, the stopper may be
heid firmly in the mouth of the jar and may, with equal readiness, be removed.
packing for pump-pistons.-Frederice Van Den Posch, Parker's Landing, Pa. The inventor claims that his packing possesses the elasticity of a
leather cup without becoming soft in oil or hard in sait water. The packing in question consists of a body ulcanized rubber united with the lower edge of this fibrous body and possessing greater rigidity than the latter.

come the deterioration due to the expansion and con-
traction caused by the successive heating aud cooling of tin-plates while being annealed, these inventors hav onnected with the body of the annealing-pot, flanged ear its interior edge, a removable top composed of sec ions suitably connected, and an arched top brace having dovetail slide detachably connected with two of the ections. By constructing the pot in detachable removaare sections, expansion and contraction, it is claimed,
are so ented.
HARNESS-LOOP.-Join T. Coisdon, Lemars, I lass of skeleton metal loops which are applied to tarious portions of harness, more especially to peck-yoke reast, hame, and breeching straps, for the purpoee of ecuring the ends of the straps at points contiguous with he buckles. The loop comprises obtuse augled side bars, having pendant ears and four connecting bars, one eing curved inwardly. The middle of the three har located in rear of the bottom one and confnes the loop the buckle.tongue, its ends being in contact with the buckle-frame.
DRAFT-CLEVIS FOR PLOWS.-Stacy H. SnowDEN, ArC mbodied in this draft-clevis for plows, the invento is enabled to regulate the amount of land cut by the plow, and to secure a regulation of the depth of a
plow when in operation. The clevis has a latch low when in operation. The clevis has a latch provided with a notched wing and with a stop. wing
at an angle thereto. A draft connection is provided an angle theretu. A draft connection is provid honks being adapted to be secured in different engage ments with the clevis, by means of the notched wing and the other hook being adapted for connection with the whiffletree. By adjusting the swiveled hook, the plow ateral force.
CORE FOR PAPER ROLLS.-Join J. Moran an IdNEY E. SMita, New York city. This invention pro in printing-presses. The core is made collapsible or capable of being removed from the roll of paper after has been wound, thereby avoiding the necessity of ship. ping cores in the rolls and returning the cores to the will after the paper has been used, and also obviating he expense of procuring cores sufficient to supply the t the printing-offce.
bedstead.-Benjamin F. Ballet, Ellieville, Mips. Byeans of the durable support provided by this in ide rails of a bedstead, the support for the slats bein of such character that it will not harbor vermin and will dd materially to the strength of the rails. Tips ar provided for the ends of the slats, which tips are adapted or engagement with the supports on the side rails. When placed in position, the slats serve to tie the side
rails tozether wherever a slat is placed, thus adding to the strength of the bedstead.
CARPET-beater.-Gharles M. Comstock, wind sor, N. Y. This carpet-beater consists of a handle hav rooves in opposing faces, the grooves having inclined ower faces. The end portions of a rattan bow engage with the grooved surfaces of the handle extension. Clamp of-lleeves conforming with the shape of the extensio fers of the bow, are also provided. These sleeves receive e members of the bow and are passed over the extension portion of the handle. By this means the member
of the bow will be subjected to a wedge-like action clamp them firmly to the handle extension, thus provid PRecure fastening for the rattan.
protector.-Howard k. Foilansbee, Welling con, O. This invention provides an improved protecto specially designed for use in an ordinary vest-pock
to keep the walls thereof spread apart to permit the to keep the walls thereof spread apart to permit the
protection and reception of cigars. When closed, the device forms a casing for a single cigar or other article The protector consista principally of two oppositely ar ranged members and a folding device to connect the
members with each other and close them so as to form ither a casing or a means whercby the members a apread apart
Cigar-Lighter.-A uaustus C. Gruhlee, Wate oo, Ind. In this invention a cigar-lighter is provided which-case. The lighter in ceestion ss apto hang near kindled by an electric scark when drawn toward the person desiing to use the device; is automaticall extinguished when released ; and is so constructed that he electric current cannot be short-circuited.
hair-fastener.-Seth W. Herrick and Cale R. Lunger, London, England. Hither the duplex comb ed or hinged to each ong have been permanuecions has the disudvantage of permitting only a small degree separation at the jointed sides. Difficulty is also ex folding the hinged portions together. These objec tions are overcome in the present invention, by pro viding a comb consisting substantially of two entirel separable combs, so designed as to be capable of inter ocking. One of the combe is provided for this purpo with guideways extending longitudinally of the teeth, hese guideways.
time-operating valve. -- Thomas Eitson troudsburg, Pa. This valve is particnlarly adapted nd is connected with an alarm-cock, so that, as the alarm is sounded, mechanical devices are operated to release a chain or other connection. A circular back plate is adapted to be attached to the clock and has a annular flange at its edge projecting from one face to euage with the clock. Alug atiached to the plate projects from a break in the fauge and acts as the fucru in the flange and lying alongeide of the inner face of the plate. An arm rigid with the plate projects ontwardly pherefrom adjacent to the lug. A finger is pivoted to the
arm and is engaged with the outer end of the lever. By arm and is engaged with the outer end of the lever. By
this meana the fuger ia held antil the lever is thrown.

HAND-STAMP.-CALEB LEE, Homeworth, O. Th purpose of this invention is to provide a stamp designed
or use in post-oftces, business-houses, and the like. The device comprises a revoluble inking-pad mounted yieldingly, a platen arranged adjacently to the inkingpad, a revoluble stamp-carrier holding a number of pad, a spring-pressed shaft formed with a spiral groo and mounted to turn and to slide, and a spring presse pawl engaging
movement.
COMPRESSED-AIR WATER-ELEVATOR.-WII inm A. Mitcheil, Nashville, Tenn. The water-eleva or forming the subject of this invention is so construc , that water may be supplied from a cistern to an ource of supply, it being possible to discharge any water that may be in the pipes, and to refll the pipe aickly with fresh water, thus obviating the necessity ion. A self-flling water-cylinder is provided which placed in the source of water-supply, A return connected with the service-pipe and with the cisteri or source of water-supply, and is adapted to conduc water from the service-pipe into the cistern in such manner, that the water delivered by the return pipe, together with any air that may be within the $r$ resh cool water, as previously stated, simulten ice-pipes from the cister
filter.-Albert L. Mclane, Laredo, Tex. Wit porous walls and chambers. Each of the filters has valve controlled connection with a discharge-pipe. lushing or service-pipe is provided with which each peration the basin is filled and the several fllters ntirely submerged. The water will percolate throug hambers into the main pipe.
type-writer cabinet.-Phlip E. Whiting Carmi, Ill. This inventor has devised a cabinet in which or supplies. These compartments have doors, which re conrected with one another, and with a drawer tha supports the type-writer. When the drawer is pulled
out, the type-writer compartment and the supply-compartments are opened. The compartments are clos by pushing the drawer in.

## Designs.

tip-cat.-Robert A. Nagler, New York city. Th ip-cat of this inventor differs from most others in being rade of elastic rubber, whereby the cat, upon being
struck upon one of ita pointed ends, will bound to greater height and distance than is usual in wooden
cats. The sides of this rubber cat are hollowed to cats. The sides of this rubbe
nable it to be readily picked up.
badge.-Larvesia P. C. Lockwood, Lake Mait and, Fla. The leading feature of this design consists it wo plates, one pendent from the other. Upon one plat pig is drawn ; upon the other plate a man ls pictured kneeling position. The design represents
Note.-Copies of any of these patents will be furn shed by Munn \& Co for 10 cente each plesse the name of the patentee, title of the invention, and dat of this paper.

## NEW BOORS, ETC

## Short Manual of Analytica

 CHEMISTRY: QUALITATIVE, QUAN By John Muter, Ph.D. Philadelphia: P. Blakiston, Son \& Company. 1898.Pp. 228. 8vo. Illustrated. 1. 25.

The present manual is the second American edition adapted from the eighth British edition, which show bat the book has been received with great favor. It is of analytical chemistry, from the simplest operations upverlooked in elementary books. By working throug it a student will become familiar with a great variety of processee, and will then be in a position to use with saisfaction the exhaustive treatises dealing with any special brauch he may wish to follow. The book is illas caled and

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The "Text Book" is a very old friend and has always maintained the reputation of being one of the best and the most usable books ever published on the subject in of mineralogy during the years that have elapsed sin the "Test Book" was first issued in 1877 has made necessary in the preparation of a new edition to rewrite he whole. as well as to add much new matter and many lustrations. All who are in any way interested formation from this book. It is a standard reference book which we keep on our table to settle all questions
of mineralogy. We know of no book on the subject in the English language which is so thoroughly good. It is, perhaps, Looad vanced for the beginner, but fortunately carefullg graded. The present volume might be called he intermediate one.

Proceedings of the Fifteenth An NUAL CONVENTION OF THE N TIONAL CONFECTIONRRS' ASSOCIA-
TION OF THE UNITED STATES. Held Official Records of Reports, Circulars and Communications for the year
1897-1898. Philadelphia: Conifec-
tioners' Journal. 1898. Pp. 279.

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(7516) H. J. L. asks: Can the alternating current be changed into a continuous current? if so, can be changed to give a continuous current by putting a if, however, the alternating current is obtained from a street line, it caa be changed to a continuous current by a rotary transformer in which the alternating current drives the motor part, and in turn by a commutator a irect current is taken off, of such voltage as may be required.

## INDEX OF INVENTIONS

For which Letters Patent of the
United States were Granted NOVEMBER 1, 1898 ,

## AND EACHBEARINGTHATDATE

 See note at end of list about copies of these patents.]

