#### RECENTLY PATENTED INVENTIONS. Electrical Devices.

ULTRA-VI●LET-RAY ELECTR●DE.--C. F. W. Horn, New York, N. Y. In this patent the invention relates to electrodes for the production of ultra-violet rays; and the principal object of the improvement is the provision of an electrode by means of which these rays may be produced in large quantities and which may be conveniently employed in the application of the rays to the cure of disease.

#### Of Interest to Farmers,

STOCK-WATERER .-- F. S. SEYMOUR. Manchester, Iowa. The present invention relates to certain improvements in apparatus for containing an automatically-regulated supply of the top, bettom, sides, and ends of the box. Shanesville, Ohio. Though adapted to various drinking water for live stock, particularly on farms, but also in towns, villages, and in such

row cultivators, and one object of the inven-out blurring. tion, among others, is to provide a construction of beam and of devices for supporting the

coupler adapted for use under conditions which will hold with absolute security, preventing ture. accidental uncoupling of the engine from its quickly and easily uncoupled, the uncoupling of the coupler being effective to set it in position for automatic action when the coupling-bar is introduced therein,

MOTOR-DRIVEN CULTIVATOR .-- E. IMing tool or tools mounted on a wheeled frame wheels, so that the tools may be operated and

THRESHING-MACHINE .-- M. Davis and W. A. LEHENBAUER, Ames, Oklahoma Ter. A W. A. LEHENBAUER, Ames, Oklahoma Ter. A purpose of this invention is to provide a bext or casing in which is located a hollow shaft small, the lifter may be placed with the stand adapted for shipping bread or the like, an vention related to an apparatus of facility and apparatus of acceptance of earrying knives tapering in direction of the casing exit, which knives have their cutting edges bent ever in direction of the motion of the shaft, and, further, to provide a driveshaft which passes loosely through the tubuar shaft, being turned thereon in an opposite direction, and to provide a governing comb point at the end of the lever. The chain will STURGES, New York, N. Y. In this patent the opposite the delivery ends of the knives to pre-i prevent any slipping of the barb or spur on object of the inventor is the provision of a vent a too rapid feed of the cut material to the post, and the handle end will be brought new and impreved megaphone adapted to be the fans and off-take mechanism. It is an down and the post be lifted out of the ground, collapsed and folded into comparatively little this invention accomplishes the automatic supplied and folded into comparatively little this invention accomplishes the automatic supplied in given quantities when gas in improvement on a former patent allowed to these inventors.

VINE-CUTTER.—S. V. JEFFORDS, Waveress. Ga. Mr. Jeffords's invention relates to that. type or class of cutters employing suitablyspaced runners adapted to be drawn along by horse or manual power and having blades: whereby the vine is cut at opposite sides of the row, the runners being provided with handles adapting them to be guided as they. are drawn along.

# Of General Interest.

NEY, Mobile, Ala. This invention is an imflooding mechanism, so that in case a fire breaks out a valve or valves under the con-

FOUNTAIN ATTACHMENT FOR PENS. J. W. LANGDON, Walla Walla, Wash. One object among others in this case, is to provide a novel construction which can be fitted and instance the invention his reference to imheld on the pen and which can be filled and emptied through its front end and which at the latter will in no wise be impaired.

METHOD OF PRODUCING ARTIFICIAL FUEL.-G. K. Hollister, Jr., New York, N. Y. Diggle, Accrington, Lancashire, and G. Wat-The object of this invention is to provide a son, Leeds, York County, England. In this ground as the horse travels. method of producing artificial fuel, the fuel case the invention relates to improvements in MUSIC-TRANSPOSITION having a high rate of heat units and being in dust-arresters, an object being to provide an solid or briquet form, practically smokeless; automatic and effectual means of arresting or and edorless before and while burning, and in- preventing the escape of dust or the like from the medium of which any one can transpose prises a means mounted on the door mechantended for use in household-furnaces, kitchen and other stoves, boiler furnaces, and the like, and capable of producing a high heat.

TRAP-DOOR OPENER.—C. II. Moos, Stillwater, Minn. The object in this instance is to provide features of construction that are simple, practical, and inexpensive, take up little room, do not obstruct the door-opening, afford means for counterbalancing doors of different weight provided with the improvement, and also permit graduation of the lifting power the door will remain closed until started to open by slight manual effort.

FORMALDEHYDE APPARATUS. RAUSCHENBERG, Mount Vernon, N. Y. Broadly stated, the process employed in this case con-

it is converted into its polymers, which are holds formaldehyde absorbed in it. perature entirely liberates formaldehyde from the curved board within the instrument. the steam, converts polymers into active formaldehyde, and discharges it with the steam in superheated state through the door into the chamber to be fumigated.

arranged to permit packing and shipping it and attached coupons. The purpose of the so that the tool can be used to good advanflat or collapsed, to allow quick and convenient ticket is to prevent a passenger from riding tage. setting up of the box for immediate use, and in a circuit on the cars of any street-railway to securely lock the parts in position and pre- system, and it is an effective check against vent accidental unlocking, and at the same this. time presenting unobstructed inner faces of

other places as it may be desirable to care for signed for use on type-writing machines and necting the ring of a watch, charm, locket, or jaws for prying on covers of the stock. The water is kept clean and free arranged to enable the operator to quickly and the like to a chain, fob, guard, or similar conpurposes, as will suggest themselves during from the effects of temperature, thus keeping accurately erase either a single letter, sign, trivance. It is also admirably adapted as a the practical use of the device.

BUCKLE.—II. W. Luimann, Hays, Kas. CULTIVATOR.—M. Jennings and J. H. or injuring the paper, and to readily brush Jennings, Elizabeth City, N. C. This apparatus is especially an improvement in straddle striking another letter on the erased part with wash. The object in this instance is to provide a dapted to clasp or clamp an attempt the paper clamp and thereby dispense with the wash. The object in this instance is to provide a dapted to clasp or clamp an attempt the paper clam of abrading matter to allow of FROZEN GROUND.—C. W. JOYNT, Seattle, tached strap, and thereby dispense with the wash. The object in this instance is to provide a dapted to clasp or clamp an attempt to provide a dapted to clasp or clamp an attempt to provide a dapted to clasp or clamp an attempt to provide a dapted to clasp or clamp an attempt to provide a dapted to clasp or clamp an attempt to provide a dapted to clasp or clamp an attempt to provide a dapted to clasp or clamp an attempt to provide a dapted to clasp or clamp and the paper clamp and the p out danger of marring the remaining writing cables, etc.

ART OF PURIFYING NITROCELLULOSE.

load when on the road, and which may be CESS OF MAKING SAME.—RICHARD SCHMIDT, shaft. Helzminden, Germany. The present invention; the vehicle propelled over the ground to follow, which carries over first all excess of the other construction work, and to prevent corthe operation of the tools. ienene.

> around the post from the eye and secured upon in storage. the returned end at the opposite side of the

ranged to permit the diaphragm to expand and contract in both circular and diametrical directions to prevent buckling of the diaphragm such as shown and described in the former Letters Patent granted to Mr. Scott.

PARTI-REINFORCED TERRA - COTTA TI●N.—P. II. BEVIER, New York, N. Y. Means! fered with the operation of the retorts. STAGEFLOODING SYSTEM.-G. J. G.B. are provided in this case for increasing the and secure joint between the tiles.

FENCE.-J. PENCE, Gratis, Ohio. In this! provements in metal picket fences, an object being the provision of a metal fence, preferits said front end will be free from contact ably made of steel, that will be of light struc with the pen-point so that the flexibility of ture, yet very strong and serviceable, and that may be sold at a comparatively small cost.

DUST-ARRESTER .- W. J. NEWTON and R. refuse-burners or other furnaces and flues and so arranged that the accumulated matter may be removed without interfering with the fur-

VENDING SH●W-CASE.—I. KLAYMAN, Baltimere, Md. Mr. Klayman's invention is in the nature of a vending show-case for retail tradesmen for containing all sorts of small articles held for sale, such as candies, speed cotton and silk, screws, nails, holts, and various other small articles which are kept in assorted sizes, styles, and prices.

MUSICAL INSTRUMENT. SARAII CLARK, New York N. Y. The invention relates particularly to improvements in upright pianes or similar upright musical instruments, an

such instrument a curved sounding-board and on the knife in a rapid manner, and the fine passed through a superheater. The high tem- and effect to the sounds deflected upon it by

TRANSFER-TICKET.-W. KLEIN, JR., Brooklyn, N. Y. This inventor's ticket is par- vision of a combined screw-driver and nutticularly designed and adapted for use in trans- wrench wherein the parts may be folded comferring passengers from one line of cars to in-FOLDING BOX.—A. L. REYNOLDS, Madison, tersecting lines, and for this purpose the N. J. Mr. Reynolds' object is to provide a box; ticket is composed of a body or main portion members in their unfolded operative positions,

SAFETY HOOK OR RING.-D. L. TROYER, ERASER.—II. B. Tooker, New York, N. Y. uses or purposes, the device is intended more ends. Connected with the chain is a spike. This mechanical eraser is more especially despecially as a safety hook or ring for constant which is employed in connection with the

vide a pertable apparatus adapted to utilize the combustion of wood for thawing frozen ground in a very economical manner, effect and B. Hugins, Hoopeston, III. An object of of nitrocellulose and also to remove any to enable the starting of the fire at the upper timprovements in devices for tightening or takthe invention is to provide an automatic gaseous impurities which may be occluded surface of the ground, and also enable con-ing up the slack in wires, particularly fencewithin the material ewing to its organic struc- venient removal of the heating apparatus from wires, the object being to provide a tightener the excavation to permit the thawed ground of simple construction by means of which the HOMOLOGUES OF ISOIONONE AND PRO- to be readily loosened and elevated from the

ACID-PROOF COMPOSITION.-F. A. PANK, the fastening staples from the posts. relates to the manufacture of homologues of Butte, Mont. This composition or paint when alpha and beta ionone illustrated by the follow- applied to iron pipes used in copper-mining ining example: Fifty parts of crude or pure cy-dustry prevents their corresion by acids nor-clo-citral are mixed with one hundred of mally contained in the copper water. Hereto-PERIALE, Naples, Italy. In this patent the methyl-ethyl-ketone, and to this mixture five fore such pipes were lined with wood; but invention relates to an apparatus for cultivation parts of sodium dissolved in alcohol are added. expensive and cumbersome lining of wood ing land, said apparatus comprising a cultivat. This is left at ordinary temperature an hour may be dispensed with if the pipes have or two or more, if necessary, until the odor been properly coated with this paint. It adand a motor connected by suitable gearing of cyclo-citral has disappeared. It is then mits of general use, and is not limited in its with the tool or tools and with the traction- acidified slightly with a solution of weak acid, application to pipes of this kind, being suitable gearing acidified slightly with a solution of weak acid, application to pipes of this kind, being suitable gearing acidified slightly with a solution of weak acid, application to pipes of this kind, being suitable gearing acidified slightly with a solution of weak acid, acidified slightly with a solution of weak acid, application to pipes of this kind, being suit. manner for the purpose of dropping the carbid such as tartaric acid, and is distilled in steam, able for use in building, marine, naval, and layers on the successive downward movements which carries over first all excess of the other construction work, and to prevent cor-

> KNOCKDOWN CASE. - R. SCHOUTEN, Keekuk, Iewa. The invention has reference to about a foot from the base of the post. The being to provide a case that will be the generation of acetylene-gas. It is espenable end of the lever may now be lifted up light yet strong and durable and so constructed cially adapted for railway use and in other and the barb pressed against the post as that it may be compactly folded to take up places where gas-holders cannot be conlow down as possible and the chain be passed but little space during the return shipment or veniently used. When, however, a gas-holder

> > C ● LLAPSIBLE MEGAPHONE. — II.

RETORT-LID.—C. F. A. HENTSCHEL, Stettin, Germany. The invention refers to a cover or lid for securing, tightly closing, or sealing vesand to allow up-and-down movement without sels, mainly retorts used for purposes of coal danger of the diaphragm bending unduly. The or other distillation, the object of the in-invention relates to fluid-pressure regulators vention being to avoid as far as possible the radiation of heat from the iron lid, which has hitherto proved to be a grave inconvenience in practice and one that very seriously inter-

EXPANSIBLE ROLL.-J. H. BRECK, Brisstrength and efficiency of the mortar or cement tol, N. II. Mr. Breck's invention relates to provement in fire-extinguishers, having for an joint between superposed tiles, and to attain rolls the peripheries of which may vary in this patent the invention relates particularly to those adapted flooding mechanism, so that in case a fire struction is placed between the courses of tiles for use in paper machines. In such machines to the provide a device of this character that shall be improvements in a combined target that shall be improvement in fire-extinguishers, having for an patch the invention relates particularly to those adapted to provide a nevel construction of slage. and imbedded in the plastic bond in a way for difficulties occur that cause loss of time and provide a device of this character that shall trol of persons from the stage can be opened and the entire stage quickly flooded with the metallic member and to adhere to the age often is caused. To obviate these difficulty and the entire stage quickly flooded with the metallic member and to adhere to the age often is caused. To obviate these difficulty are to be accessible from all sides, and that will occurred to the age often is caused. To obviate these difficulty are to be accessible from all sides, and that will occurred to the age often is caused. surfaces of adjacent tiles, the mortar and the culties and provide means for readily varying open-work member producing a thin, strong, the rolls without the necessity for stopping | OVEN FOR GAS, GASOLENE, OR OIL the machine are the principal objects of his STOVES .-- ELLA D. HARRIS, New York, N. Y. invention.

> rubber or analogous material to relieve the shock to the horse due to striking the hoof on the ground. The invention comprises the combination, with the shoe proper, of a compressible frame arranged to be clamped on the shoe carrying the pad which engages the

FINLEY, Chicage, Ill. The purpose of this doors, the invention may be used in connectimprovement is to provide a chart through tion with doors of other sorts; and it commistake and which will be of material aid to of a person passing the door will act to encurate guide readily understandable to any one out using the hands to open it. having a slight knowledge of the principles of musical composition.

# Hardware,

KNIEE-SHARPENER.—A. W. JOHNSON, New Brunswick, N. J. This invention conof a reversible grinding-tool having a coarse abrading-face on one side and a fine-finishing face on the other, in connection with means for presenting the respective faces of the tool at different angles to the edge portion of the knife or blade, whereby the coarse side sists in boiling liquid formaldehyde, whereby object being to employ in connection with of the tool is available for grinding the bevel and which is employed as a fixture auxiliary

volatilized along with the steam, which still a curved or concaved lid, which also serves surface of the tool is presentable to act only This is as a medium to diffuse and give enlarged tone on the edge portion in a way to produce a keen cutting edge.

COMPOUND TOOL .-- A. L. GHEEN. Creede. Col. Mr. Gheen's object in view is the propactly, so as to be carried conveniently in the

HAND-T●●L.-W. W. BARTON, Salt Lake City, Utah. Briefly stated, the device comprises two jaw-like members having handles at one end and a chain or other means for adjustably connecting together their opposite which is employed in connection with the

The intention in this instance is to provide a end is effected. It has advantages over all similar buckles in forming a bend over a transverse rib and by double-clamping action effected on opposite sides of the bend through means of cams and an under transverse rib.

WIRE-TIGHTENER.-T. J. CORRIGAN, Arkansas City, Kas. This invention relates to wire may be quickly and neatly tightened with very little labor and without danger of drawing

#### Heating and Lighting.

ACETYLENE-GAS GENERATOR.-J. WAUGH, Meline, Ill. One ebject of this imprevement is to provide a form of carbidmagazine wherein the carbid is confined in isolated layers by mechanical devices adapted to be released in an automatic and successive removed for the purpose of cleaning the parts and renewing the carbid-supply.

ACETYLENE - G A S GENERATOR.— N. is to be used, valves may have suitable connection with the gas-holder, so as to be automatically operated thereby.

ACETYLENE-GAS MACHINE.-G. ANDER-EGG and F. A. SELL, Red Lodge, Mont. First, FLUID-PRESSURE ...EGULATOR.—J. W. space for convenient storing aboard ship or ply of carbid in given quantities when gas in Scott, Colorado Springs, Col. The aim of the other place and adapted to be quickly and the holder is diminished by consumption at present its provided a regulator are readily extended for use.

The support of the difference of the burners; second, the quick and easy resumption is the burners; second, the quick and easy resumption is the difference of the burners; second, the quick and easy resumption is the difference of the burners; second, the quick and easy resumption is the difference of the burners; second, the quick and easy resumption is the difference of the burners. plenishing of carbid; third, the prevention of gas leakage through a hand-hole and stuffing bex; fourth, reduced ebullition of water ip generator when carbid is dropped therein; fifth, to expel gas and flood generator on consumption of carbid in magazine before opening generator to clean the same; sixth, to facilitate discharge of water and residue from generator; finally connecting reserve generator of battery to intermediate connecting devices with gas-holder.

> RANGE .-- Q. CRANE, San Diege, Cal. this patent the invention relates particularly it for use in hotels or restaurants.

The purpose in this instance is to provide a construction which will be simple, durable, and HORSESHOE.—R. E. JOHNSON, New York, N. Y. This shoe is provided with a pad or effective, and such that the base can be vertically adjusted to place a pan, griddle, grid-iron or broiler, or other cooking vessel or utensil employed in the desired relation to the

# Household Devices,

D●●R-●PENER.—T. E. LEE, Chulavista, MUSIC-TRANSPOSITION CHART .-- W. H. | Cal. Though particularly adaptable to screen a piece of music at sight without chance of ism or frame which when engaged by the foot persons writing music. It will prove an ac- able the person to pass through the door with-

> STEP-LADDER.-II. L. SCHWALBE. Jerse? City, N. J. In the present patent the invention has reference to improvements in extension step-ladders, the particular object being the provision of a step-ladder of this character that will be very simple in its construction and very rigid and strong in any one of its adjusted positions.

> CURTAIN-MIXTURIS. - O. MALMQUIST, New York, N. Y. The purpose of the inventor is to provide a fixture adaptable to receive a rod for supporting a lace or other light curtain

to the main bracket utilized as a support for Haute-Vienne, France. lower limit of the main bracket and secured in position and as expeditiously and readily removed.

REVOLVING SASH .- J. F. BLANCHARD, New York, N. Y. The invention relates to sashes having horizontal pivots to the side edges mainly for convenience and cleanliness. A main feature of the invention consists of auxiliary sash stiles formed of two longitudinal N. members; interposed springs between the memeach other, the springs yielding when the sash is turned on its pivets.

tin, Texas. A purpose of this invention is to quickly returned to their normal position. provide means whereby the water may be let outlet-pipe is automatically closed by the  $\bullet r$  valve device for the outlet-pipe whereby to by the tank to obviate the pounding noise com-, bing against the sides of the well and wearing men to flushing-tanks due largely to siphens the rope or cable away. sucking air and water just as the siphonage is broken.

books on high shelves.

WATER CLOSET .- F. W. BENDER and J.

view is the provision of an article adapted to sustain the upper edge pertien of a curtain above or alongside of the curtain-pole, whereby a plurality of the hooks serve to support the curtain or portière in a way to conceal the pole and the rings without resorting to stiffening media for holding the curtain.

cliff, N. J. In this instance the invention rethe sash may be turned to any desired angle or completely reversed for convenience in washing both sides of the glass by a person within belt. the room; and the object is to provide a mechanism permitting the movements with ease. In this patent the invention has reference to

# Machines and Mechanical Devices.

FEED-GEARING .-- J. B. HART, Clarksburg. W. Va. In this case the invention is an improvement in the feed mechanism of sawmillcarriages, and has for an object, among others, to provide a compact arrangement of devices whereby metion is transmitted from the sawmandrel to the feed shaft of axle and to supother friction-wheel as well in the feed-contrelling frame.

WEIGHT - REGISTERING WEIGHING MACHINE. H. POTTIN, 100 St. Lazare Street, and L. M. DeLogeliere, 25 Caumartin Street, Paris, France. An important feature of this contrivance consists in that the "weighingmachine," properly so called, is independent of registering mechanism and takes up position of equipoise without moving any of the parts save its own levers and its cursor, which may be so arranged as to move without any sliding friction, so that the weighing-machine may of the very greatest sensibility. As the registering mechanism is acted independently object is to reduce the cost of construction by ta ful611 plurality of functions without impairing sensibility or precision of apparatus.

rounds, an object being to provide a device of produce a peculiar illusion to onlookers.

VENDING-MACHINE, F. Lynes, Johnstown, N. Y. Mr. Lynes' object in this invention is to provide a machine adapted to contain articles of different values or grades, such as cigars, and operating to deliver an article from any desired one of the several receptacles upon the insertion of a coin, and vice for making and breaking circuit connecdirecting the money by means of a novel tion with an alarm device, a bulb operating mechanism and a controlling mechanism for the desired recentacle.

quickly and conveniently clamped upon the stalks and separating fiber from coarse im- birds or like moving objects. purities, a shaker-frame for continuously agitating stalks while operated upon by the beater- New York, N. Y. In this patent the invention wheel, a conveyor for removing fibers, drums arranged in parallel consecutive pairs and provided with intermeshing members, and means for rotating said pairs of drums at different speeds for scraping the fiber.

TYPE-WRITER .- J. ALEXANDER, New York, vision of a type-writing machine of combers permit them to move toward and from paratively simple construction so arranged each other, the springs yielding when the sash that the type-carrying bars and operating: levers may be moved to printing operation by FLUSHING-TANK .- B. WALKER, JR., Aus- a very little pressure and upon release be

WELL-DRILLING MACHINE.-H. H. WIL out of the tank through an outlet-wime having | BURN, North Yakima, Wash. The main object slip connection with a fixed flushing pipe, which | of this invention is the provision of a walk- and therefore strain and discomfort heretofore ing-beam with which a gasolene or steam enupward action of the tank, and to provide an gine may be successfully used for well-drilling, everflow-pipe in connection with the closing so shaped and hung as to cause the drillingtool to move in direct perpendicular lines, regulate the amount of water to be received thus preventing the rope or cable from rub-

PUMP-CONTROLLING APPARATUS.—G. V. Ellis, New Yerk, N. Y. The invention re-ADJUSTABLE STEP FOR BOOK-SHELVES. lates to an apparatus for automatically prim--T. S. Martin, Butte, Mont. In libraries, ing and starting pumps, particularly centriwhere tiers of shelves are of such height as fugal pumps used for lifting sewage, bilgeto require a temporary foot-rest to enable one water, and the like. By its means as the to reach upper shelves, it is desirable to have level of the water rises to a height requiring the foot-rest always in place and adapted for its discharge a liquid-pressure is opened to vertical adjustment. The object in this case prime or fill the pump and simultaneously to is to provide details of construction which after throw the pump-controller, whereby to start ford a simple and convenient step capable of the operation of the pump. The present invertical adjustment and clamped connection vention represents a further adaptation of the with upright portions of a tier of book-sup- automatic starting apparatus forming the porting shelves to enable one to readily reach subject of a former patent granted to Mr.

PRESSURE ATTACHMENT FOR LUM-M. SCHLOTTER, New Rochelle, N. Y. The aim | BER-MATCHING MACHINES. A. MILNE, M. Schlotter, New Rochelle, N. Y. The aim BER-MATCHING MACHINES. A. Milne, its way to the engine; and it consists in cerof the invention is to provide a new and im- Burk's Falls, Ontario, Canada. The printian peculiar devices by which the flow of proved water-closet, more especially designed cipal object of the inventor is to provide a lubricant may be regulated at will and kept for use on railroad-cars, marine vessels, etc., | machine which shall have the pressure-arm feeding at a steady rate. and arranged to prevent upward draft in the carrying the blocks thereof so mounted on the bowl and to allow of flushing the bowl to keep machine that they may be independently op-the closet at all times in proper sanitary con-erated—that is to say, if any uneven strip of DRAPERY-HOOK.—L. Nachmann, New the blocks will at all times bear upon the York, N. Y. The object the inventor has in under surfaces of the same in such manner that it will be held even to the machine, and thereby prevent any unevenness in the matching of the same.

POLISHING-MACHINE. — G. A. ENSIGN. Defiance, Ohio. More particularly this invention relates to polishing-machines using an endless sand or other polishing belt. The WINDOW-SASH. A. C. Goddard, Wood- object is to provide a machine more especially designed for polishing wagon and carriage lates particularly to that class of sash adapted to slide vertically in the window-casing and to swing on herizontal pivots, so that the sash may be translated to any desired to a proposed to automatically and the machine being appropriate the sash may be translated to any desired to a proposed to automatically appropriate the sash may be translated to any desired to a proposed to automatically appropriate the same and the machine being appropriate the same appropria arranged to automatically rotate the article when moving it in contact with the polishing-

> ORE-SLIMER .- I. F. MONELL, Boulder, Col. certain improvements in ore-slimers, a particular object of Mr. Monell being the provision of an ore-slimer of novel construction and so arranged as to quickly and wholly separate fine gold from sand and slimes.

Decatur, Ind. In this patent the object of the storage-tank. invention is to provide a new and improved machine, more especially designed for use in C banks and other financial institutions and ceived and sent out to permit of obtaining imchange, etc.

# Pertaining to Vehicles.

WAGON-TOP.-J. POHLIG. New Orleans, La. In this instance the invention relates particularly to improvements in side-curtain mechanism for wagon-tops, an object being to provide a simple and novel means for supporting the relling side curtains, and a further new commonly employed. This end the inven nt recently granted to Mr. Pohlig.

TRICYCLE.—C. J. MADONNA, New York, | sure. bility or precision of apparatus.

N. Y. The purpose of this improvement is to CAROUSEL.—H. S. Thomas, New York, N. provide a race-horse tricycle, or a tricycle in this chara ter in which there is a variety of and the forward part by a single wheel which always points in the direction of travel.

# Photography.

PHOTOGRAPHIC - SHUTTER - OPERATING! thereof. MECHANISM .- J. H. HAMMER, Marquette, Mich. The purpose of the invention is to provide a trigger-operated cushion-controlled dedevice (perated by the alarm device, the bulb DECORTICATING-MACHINE.-P. P. of a camera, and means whereby the trigger

the curtain-pole or the pole adapted to sustain decorticating ramic and other textile plants trap to effect closure of said circuit whereby a portière or other heavy curtain, the auxil- and leaves, comprises rolls between which the device may be set to provide for an auto- iary fixture being so made that it may be stalks are fed, a beater-wheel for breaking matic instantaneous photography of animals,

> FOCAL-PLANE SHUTTER-W. F. FOLMER, relates to an improvement in focal-plane shutters; and its special purpose is to provide a construction whereby the alinement of the shutters to each other and the alinement of Business and Personal Wants. the connection-tapers for the shutters with respect to the reeling device will be main-Y. The aim of this inventor is the pro- tained under all conditions of adjustment and  $\bullet peration$  of the shutters.

> > STEREOSCOPIC APPARATUS.—V. Owen, Adrian, Minn. The object of this improvement is to provide means for displaying stereescepic views more effectively and in greater numbers than heretofore. The pictures may be instantaneously changed without the necessity of taking the eyes from the lenses, entailed in removing one picture and emplacing another are avoided. Also the pictures are effectively protected from abrasion and injury and the number which may be shown is practically limitless.

FILM-DEVELOPING MACHINE.—J. BRAINERD, Rome, N. Y. The primary object of the invention is to produce an improved structure adapted for use in the daylight for the purpose of developing the sensitized exposed surfaces of a film and for fixing the de veloped surfaces without resorting to a dark room, either portable or stationary, and without the possibility of the latent impressions becoming "light struck" during the process of treating the film.

Prime Movers and Their Accessories. OIL-FEEDING DEVICE.-W. W. MATHEWS and C. BAUER, Eureka, Utah. In this patent the invention relates to a means for introducing a supply of lubricating-oil into steam on

MUFFLER.—I. B. ULLOM, Claysville, Pa. In operation, the exhaust is introduced through the main inlet-wive and upon striking the promaterial is being passed through the machine jection in the T is divided and passes out through branch pipes into the casing, where it expands, losing force and impurities against the casing-head, striking upon the conical projection valls and being deflected all directions back toward the center of the casing, where the two portions meet and mix, whereby further deadening effect is secured. The exhaust rising through the outjet-pipe is de-flected by the cone and directed against the ring, the latter's concavity tending to return it toward the casing. These impacts further deaden sound and it escapes through ring opening practically without noise.

HYDRAULIC AIR-COMPRESSOR-J. H. ALEXANDER, Ymir, British Columbia, Canada. It is the object of this inventor's improvement to provide an apparatus for compressing air wherein a falling column of water is received by an air and water separating tank, which is connected with a hydraulic air-compression apparatus proper whose operation is such that the air compressed by it may be delivered to the same pipe through which the column of water falls, and thus be conveyed into the said sepa-DUPLICATING-MACHINE.—C. H. COLTER, rating-tank, whence it is conducted into a

LUBRICATOR.—O. E. GAY, Rockymount, N. The present invention has for an object mandrel to the feed shaft of axle and to support the intermediate friction-wheel and the business houses and arranged for making a minimize the danger of breaking the glass complete record of all commercial papers rethrough which the feed is seen and to preceived and sent out to permit of obtaining immediate reference at any future time to
device without stopping the operation of lubriprevious transactions or disposals of notes,
drafts checks domestic and foreign exdrafts, checks, domestic and foreign ex- habricating devices connecting with the same

# Railways and Their Accessories.

FEED-VALVE. J. L. CURRAN, Rocklin, Cal. The prime object of Mr. Curran's invention is to provide a single feed-valve which may be made to serve the purpose of the plural valves tor attains by constructing the valve with of the lead to be weighed it may be of very emitting certain elements shown in a former means facilitating its ready adjustment from one pressure to another, so that the single valve may be made to feed high or low pres-

WINDOW-SCREEN.- H. F. CHREITZBERG Y. In this case the invention has reference to improvements in carousels or merry-go-two pivotally-connected parts, the rear being particularly to screens for railway-car winsupported by two wheels on the sane axle dows to shield passengers from cinders, dust, and the like while riding with windows open, movements and so arranged as to not only is a steering and at the same time a driving an object being to provide a screen of simple give amusement to the riders, but also to wheel, so that the head of the horse-like body construction that may be sold at a very small price, easily placed in a window  $\bullet r$  removed therefrom by a massenger, commactly folded or rolled when not in use, and conveniently carried in a valise or secured to the outer side

# Designs.

DESIGN FOR A MEMBER FOR BAG-FRAMES. C. FLAX, New York, N. Y. This inventor has designed an original and orna mental design for a member of a bag frame.

DESIGN FOR A PAPER-WEIGHT.-W. D. FAURE, 21 Place du Champ de Foire. Limeges, may be brought inte action manually or PAULSON and R. D. HEINBOCKEL, Manitou,

This machine for through connections with an alarm clock or | Col. The design of these inventors represents an original and ornamental paper-weight, square in form.

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