recentiy patented inventions.

## Pertalining to Apparel.

GARMENT-RACK. - FANNIE WOLF, New York, N. Y. This invention relates to im provements in garment racks, and more par ing the hangers and permitting of their rotation, to expose the garment to view from al sides. The invention involves features of con struction substantially the same as certain of the modified forms illustrated in a prior ap plication filed by F. Wolf.

## Flectrical Devices.

INSULATOR FOR THIRD RAILS. - L steinberger, New York, N. Y. Among the many objects of this invention may be named the provision of means whereby a movable portion of the insulator may be connected with
the rail and so arranged as to turn relatively the rail and so arranged as to turn relatively means for securing the insulator to a separate base, thus enabling the operator to handle the entire device as a single unit; and mechanism for taking up pounding action otherwise taking place between insulator and base, owing to the alternate depression and rebounding of a cross tie when a train passes over
CIRCUIT-CLOSER.-O. M. TuSTISON, Bain bridge, Ind. The main purpose here is to pro-
vide a closer which can be operated only by a special key, and which, therefore, is not capable of being operated by any one other than the possessor of the key. The actuating mem ber is held securely in place while it is in use, thereby rendering it impossible for a separa tion of the circuit closing contacts.
CONTROLLER.-H. Smith, Suffern, N. Y
The more particular object of this inventor is The more particular object of this inventor is to provide a type of controller in which there
is a revoluble drum carrying resistance wind is a revoluble drum carrying resistance wind
ings upon its periphery, these windings being adapted to dip inte a body of free mercury adapted to dip inte a body of free mercury
and being movable at will by aid of the drum for the purpose of varying the ohmic resist
ance of the windings.

## Of Interest to Farmers.

STALK-CUTTING ATTACHMENT FOR VEHICLES.-R. B. HUMAN, Chickasha, Okla The cutting attachment is complete in itself in comrbination with cultivator disks, and which can be expeditiously applied to the for
ward or rear axles of an ordinary farm wagon or to a similar vehicle, and provide means for lowering and raising the cutter and cultivato disks.

BEET-PLOW.-L. Brenneis, Oxnard, Cal. An object of this inventor is to provide a
plow with bell crank levers pivoted to the frame, the levers having treadles on one set of terminals with a yoke pivoted to the frame
the yoke having a pin which engages the draft the yoke having
bar to shift it.

## Of General Interest

animal-trap. - G. J. Miller, Marco, Mont. When the jaws are sprung, and the instantly killed or disabled, he naturally seeks prevent escape in this manner, each end of the body of the trap is provided with a fang,
which will ordinarily pierce the skin or body of the animal when the trap is sprung, w
prevents his moverrent in any direction.
Dreva mone
Disappearing table.-G. H. Witthaus, New York, N. Y. This table is adapted for
use in launches, yachts, apartments, automo use in launches, yachts, apartments, automo
biles, and railway cars. One object of the biles, and railway cars. One object of the
invention is to provide means whereby a remov able section of a floor ray be utilized as
table, reclining couch, bench, or a settee. Ar ticulated members support the floor section which may be receiv
surface of the floor.

## Machines and Mechanical Devices.

## flying-machine. - P. V. Wadleigh

 Needles, Cal. ©The invention relates especially to machines of the aeroplane type. The ma chine is provided with mechanism for raising independently operated propellers for advanc ing the machine. The invention resides in the construction of the lifting and propellinmechanism, and in the guiding mechanism. WELTING-MACHINE.-J. Larsen, Vester
gade 11, Copenhagen, Denmark. The inven gade 11, Copenhagen, Denmark. The inven-
tion relates to means for handling welts in welting machines and in other forms of ma chines for sewing leather, the more particular welt is fed step by step into a position favor able for enabling it to be pierced by the needle.

Valve.-A. Paul, New York, N. Y. The roduce an efficient type of valve suitable for use in connection with liquids or gases, and especially adapted for handling illuminating gas. The invention comprises details of construction whereby the closure of the valve is the valve is greatly increased.
WIRE-FRAME MACHINE.-A. Piaser and H. Cohn, New York, N. Y. One object of the
invention is to provide a machine which apable of a plurslity of adjustments to permit frames of widely different forms to be fashioned thereon, and which can be operated
to release a frame after the latter is formed
without destroying or altering the form of the rame.
SPEED-CONTROLLING DEVICE. - C. E
 ery little attontion and is connected to
revolving part of the device to be controlled with a view to cause the device to run at al times at a sure, steady, even speed, although the power or the load may
minish instantly or gradually.
FLYING-MACHINE - M.
Flying-machine.-M. B. Sellers, Balti more, Md. The weight of this machine is sup ported by the air impinging on one or more
surfaces. inclined at a smaill angle of incidence surfaces. inclined at a small angle of incidence
and in motion relative to the air, whether and in motion relative to the air, whethe
this motion is produced by movement of air or by gravity, or by propelled mechanism
When by gravity, the machine is known as When by gravity, the machine is known as
gliding machine, but it fs equally suitable as power-driven machine
CONCRETE-MIXER-W. D. Clough, E. S Clough, and J. G. Clough, Quincy, III. Th invention has reference to machinery for work ing concrete and the like, the more particula
purpose being to produce a concrete mixer especially adapted for continuously admixing concrete in successive charges of limited volume The machine is to a great extent self-cleanin and is not liable to do any pounding.
REGULATOR FOR THE FLOW AND
LEVEL OF LIQUIDS.-P. Sutherland, L Level of Liquids.-P. Sutherland, La
Luz, New Mex. The invention is particularly Luz, New Mex. The invention is particalanis
useful in devices used in irrigating channels mining ditches and other water supply conduits It provides a regulator which is absolutely au-
tomatic in operation, and which can be ad justed to operate and control the liquid body a different levels and at different rates of flow. LATHE-HEAD.-G Fisher, Torreon, Mexico. More particularly the improvement re lates to the means employed for driving th chuck or face plate at any one of a pluralit of different speeds. The intention is to pro vide means whereby the ordinary belt-drive lathe having a cone pulley may be converte into an all-gear lathe
ROAD-MACHINE.-M. M. SICKler, Pala Cal. The supporting wheels are operated b gearing, particularly worm gearing, instead of can be independently operated for steering th machine, and the bed may be raised or low-
ered, thereby achieving results on a hillside ered, thereby achieving results on a hillside
not ordinarily obtainable since the machine not ordinarily obtainable since the machin COUPON CUTTER AND COUNTER.-E. H artow, New York, N. Y. This device may set to accommodate coupons of various sizes,
and is adapted to sever or shear rapidly and evenly. The device has a visible dial upo which is registered each coupon as cut, an by means of which all the coupons may
gathered as cut, in a removable receptacle. TYPE-WRITER RIBBON-SPOOL. - J. 'Connor, New York, N. Y. This improve ypewriter ribbon spool is provided with a cas ub to which the fianges are riveted, thus per mitting quick, convenient an accurate assem labor, and the parts without the aid of skille facturing to a minimum.

## Pertaining to Vehicles.

tire-armor.-W. J. Belyea, Port Huron Mich. The invention relates particularly to improvements in a guard armor or protector may be used on rubber tires of other vehicles, the object being to provide an armor that ma be readily placed over a tire and absolutely protect the same from wear or abrasion, an tread of the wheel.
lock for cycles.-J. m. barrett, fos toria, Ohio. The invention comprehends a lock mounted upon the framework of a bicycle and
provided with a movable bolt adapted to proect through the sprocket wheel, the bolt bein o arranged that when in its normal positio the bicycle cannot be used, the bolt being
withdrawn from the sprocket wheel by aid of withdrawn from the sprocket
TRANSMISSION apparatus. - J. Orker, New York, N. Y. The object of this the rear or driving can be placed thereon without in any way a tering the motor vehicle, and the power from he driving of such wheels will be applied to a power transmission member such as a belt
pulley. LUGGAGE-Carrier.-L. E. Draper, Santa Cruz, Cal. One of the objects in this inven on ing trunks, bags, or other receptacles, secure against accidental displacement or loss, the forried when
armored tire.-s. t. Moser, Huntdale, . C. The improvement is in that class of tires which are armored and in which an ai tube of the usual design is contained within
the outer tube. The aim is to provide the outer tube. The aim is to provide a tire
and means for protecting the air tube from puncture and also to provide means for pre venting "skidding" or slipping of the wheel and further to increase the traction and prolong the life of the tire.
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the present time, with a full account of tho bearing on the New Testament. Many years exploration in Egypt under the direction of
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he Geology of the City of New York
By L. P. Gratacap. New York:
Henry Holt \& Co., 1909. 8vo.; 232 pages. Price, $\$ 2.50$.
This is the third revised and enlarged ediand and is accompanied with 65 illustrations
and. There is no one better fitted to treat of this subject than Prof. Gratacap, whose long connection with the American
exceptional opportunities for the study of valu able material at first hand. The book is ex
ellently made, and is well illustrated by half tone engravings and diagrams. The facts pre ented and the statements have been brough ogether from many souces and have been lassified. The book will certainly tend to eveliop and complete a correct geological istion of Greater New York. Mr. Grataca
to be congratulated upon a highly successful scientific book.
as Engine Theory and Design. By A. C. Mehrtens, M. E. New York:
John Wiley \& Sons, 1909: 12mo.; John Wiley \& Sons, 1909: 12 mo .
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ngines-students, draughtsmen, enzineers, a well as the men who operate gas engines of any ind, and wish to become better acquainted with he theory and the why of many things. Th book should be of special interest to th pared for the engineering classes at the Mich gan Agricultural College, since no suitable text ook could be found. The reading matte throughout has been arranged carefully and with a definite object in view. The large een made as simple as possible. It has also meen made as simple as possible. It has als
been the aim of the author to make the treat ment clear and concise, and for this reason every paragraph should be studied-not merely ead ovet.
n Hstorical Review of Waterways Yopk State By Henry Whalen Hill LL.D. Buffalo: Buffalo Historica Society, 1908. 8 vo.; 549 pages. present volume is a critical study dea York State waterways. Nothing of the chara ter of the present work has been written be ore. The book, which is beautifuliy bound,
is filled with papers and documents of all inds. It is a most veluminous compendium subject internal at present time when in the Empir State is of paramount importance. The Hon. Mr. Hill is to be congratulated on the com letion of so laborious a work.
The Lure of the Land. By Edith Lor $\begin{array}{lll}\text { ing Fullerton. New York: } & \text { Long } \\ \text { Island } & \text { Railroad } & \text { Company, } \\ 1909\end{array}$ 8vo.; 160 pages.
The present attractive work is a history of market garden and dairy plot which wer eveloped within eight months upon a most un ertile section of Long Island. The sectio as so bad that it was designated as "scrub
This work was carried on baste." the Long Island Railroad Company at Experi ment Station No. 1. The author has also writ ten a most valuable book entitled "How To ullerton are well known as promoters of agriculture along the latest scientific lines. Th book contains a graphic description of the ork from the time when the underbrush wa leared and the stumps dynamited until the hippinas in its full fruition and they were ing an assortment of fresh vegetables picke efore daylight and delivered before dinne The book is charmingly illustrated and de cribes the method of procedure which could and tigures prove that agriculture is far from a profiless or dry occupation, ith a celery crop at $\$ 330$ to $\$ 1,000$ per acre Brussels sprouts at $\$ 500$, asparagus at $\$ 550$, ther attractive crops may be grown at sim ilar profits.

INDEX OF INVENTIONS
For which Letters Patent of the United States were Issued for the Week Ending August 3, 1909,

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