RECENTLY PATENTED INVENTIONS. Agricultural Implements.

HARROW TOOTH-BAR.--T. R. WALLIS. Dyersburg, Tenn. The tooth-bar is a composite structure comprised of a pair of gutter-shape members placed together so as to form a tube. Each of these members is provided with a shanks of the harrow teeth. The shanks are ing motion can be utilized. secured at the top by threaded nuts.

Electrical Apparatus.

ELECTRIC ACCUMULATOR.—F. LOPPÉ, lator comprises a plurality of perforated plates, the walls of the perforations having conical projections. An active mass is arranged between the plates and distance pieces which are connected by perforated rivets.

Hardware.

DOOR OR GATE LATCH.-C. J. MOORE, Varina, Iowa. A latch of simple construction is hereby provided that may be readily attached to a door or gate, and serves to hold the same locked in either closed or open position. The parts are so arranged that it will. move the latch from its locking position by York, N. Y. This apparatus is used for sub-

sail and will not injure the sail by unduly wearing on the bolt rope or sail cloth. It will hold the luft of the sail snug against device automatically.

properly cutting the can.

Hancock, Mich. A simple and practical twineholder has been designed by these inventors which will be found useful for merchants and others. After a package is tied and the twine is cut off, the twine-holder will raise the twine above the counter. Means are provided also for regulating the tension of the twine as it runs off.

Mechanical Devices.

SAW-SETTING MACHINE .- C. Young, York, Me. This improved saw-setting machine is designed for accurately and quickly setting the teeth of saws, notably band saws. The arfor readily treating all kinds of saws, whether wide, narrow, fine, or coarse.

DREDGE.-A. Z. BOUDREAUX and O. F. Es-CHET, Gibson City, La. This invention, which I in general relates to improvements in dredges, more specifically comprehends a novel and peculiarly constructed means for automatically opening the bucket or dipper door, and for taking up the slack of the rope that connects the dredger boom and the supporting platform.

SHIPLEY, Jennings, Okla. Ty. This invention lights. has for its object to provide means, in the well-known pneumatic tube for handling seed cotton by atmospheric suction, that will thoroughly clear the cotton before it gets to the gin stand. The invention consists in a special cleaning apparatus designed to be located at any desired point in the gin room.

CLUTCH-OPERATING MECHANISM FOR WINDING-DRUMS .- S. BARTRON, Stroudsburg, Pa. Improvements are provided by this invention in devices for moving the winding drum into operative connection with the driving wheel and for disengaging it therefrom. A simple mechanism is employed by which the adjustments may be quickly made while the York, N. Y. Various improvements in the

the work and cutting it off at even lengths, triangular in form and the vehicle has three after which the work passes from work-car- wheels, one in front serving as both the drivriers which move arbitrarily and at the same time turn independently around a cutter of the rotary type.

COMPRESSED-AIR WATER-ELEVATOR. W. McKee, Charleston, W. Va. An improvement in compressed air water elevators is provided in this invention which relates particularly to the valve mechanism, whereby compressed air is admitted to the pumping cham- in construction, cheap to manufacture, easily

POWER DEVICE FOR PUMPING WELLS. J. J. Kwis, Findlay, Ohio. The invention aims to provide simple and substantial means for holding a vertical spindle in a perfectly rigid condition in the frame work of a power device for pumping wells, thereby effectually overcoming all liability of the power wheel assuming a tilted or canted position. The invention is an improvement on a previous one

a cam wheel operated through the medium of advantages are attained. reciprocating devices or agents for the production of work. The invention is applicable duction or work. The invention is applicable for operating oil, water, and air pumps and for a variety of other uses whereby reciprocating motion can be utilized.

In the invention is applicable linsford, N. H. The pan is designed especially please state the name of the patentee, title of the invention, and date of this paper.

In the invention is applicable linsford, N. H. The pan is designed especially please state the name of the patentee, title of the invention, and date of this paper. row of holes into which are fitted the conical for a variety of other uses whereby reciprocat-

vention is more particularly to provide means and also so as to leave a space beneath the for retaining a revoluble brush in a predeter-H. P. Morin, G. J. A. Griner and D. P. Mar. mined position relative to the foot-rest, so tin, Paris, France. This electric accumutation that the operator after using the brush merely allows it to return to its normal position, where it is convenient for subsequent use.

NAILING-MACHINE.-J. W. REED, Hammond, Ind. The invention relates to nailing posed type. In carrying out the invention the are provided at one end to separate the plates machines operated either by hand or power, turret is designed in two partly elliptical but more particularly by hand, in which the nails are automatically formed from a wire as the machine is operated. The nails are cut by the cutting die of the hammer shearing past the stationary die in the frame and are having sloping fronts. driven by the same stroke of the hammer.

Medical Apparatus.

AUTOMATIC MEDICAL ELECTRICAL AP-SAIL-HANK .- J. M. INTO, Newport, R. I. vice is of simple construction and may be

is characterized by its simplicity and effi-ciency. The implement possesses the strength tempers and filters the cold air in winter, and it and cutting qualities which are necessary for. As an inhaler of such medicaments as chloro-line w form, menthol, turpentine, etc., the device will line will engage the chalk, but when the line saves the same purpose as a more expensive is being wound up, the chalk is arranged to TWINE-HOLDER .- A., L. and O. SoveLius, serve the same purpose as a more expensive and cumbrous device.

Railway Improvements.

EXPANSION JOINT-COUPLING FOR TRACK-RAILS.—J. W. McBurner, Fort Palmer, Pa. A novel and simple coupling device is adapted particularly for holding railroad track-rails connected at their joints in a repensation for expansion of the rails during hot weather.

AUTOMATIC PHOTOGRAPHIC DETECT-OR DEVICE FOR PASSENGER CARS .- F. proved device by means of which milk may be rangement of the parts is such as to permit W. Brooks, Brooklyn, N. Y. The invention delivered directly from the cow into recept indispensable in every store. Certa easy and quick adjustment of the machine consists in the main of the following parts: First, a device connected with and operated the air is exhausted. Means are provided for by the revolution of the car wheel, and an scaling the bottles before removal from the pens. electrical connection by which the operations of the camera and registers and the distance between such operations are actuated and controlled; second, an electric current, preferably from a battery, connected with the above device by which the circuit or circuits are opened or closed to operate the camera, the therewith during the different adjustments of registers, and the lighting of the car; third, a method for automatically lighting the car in such portions as are desired, and means COTTON-CLEANER.—E. B. HAM and J. W. for shutting off conflicting or objectionable

> RAIL-JOINT .- D. O. BRUNNER, Somerset, Ohio. The invention has for an object the provision of improved means for protecting the meeting or adjacent ends of two ralls from simplicity, quickness, cheapness, and reliabilthe pounding or hammering action of the ity. wheels of passing cars, thereby contributing to the easy and smooth running of trains, reducing the tendency of the parts to work loose, and minimizing abrasion and wear of the joint.

Miscellaneous.

MOTOR-VEHICLE .-- A. E. OSBORN, New driving shaft is moving in a winding directon. I framing of motor vehicles are provided by LATHE .- O. G. EDMOND, Wausau, Wis. Mr. this invention in order to effect as direct a Edmond is the inventor of an automatic lathe connection as possible between the motor and for turning spindles, balusters, handles, and driving wheel which is also arranged to steer like articles. It comprises means for feeding the vehicle. The frame is approximately ing and steering wheel. The motor is mounted on a separate frame which swings with the

ROPE-GUIDE.-W. G. POULSON, New York, N. Y. The purpose of this invention is to pro vide a new and improved rope-guide for the hoisting and lowering ropes of dumb-waiters and the like. The guide is simple and durable bers and permitted to exhaust therefrom in applied, and so arranged as to prevent chaffing the operation of the apparatus.

| and breaking of the ropes and abrasion of the wood adjacent to the guide. The friction between the rope and the guide is reduced to a minimum, and hence raising or lowering of the cage or box may be accomplished without much exertion to the operator.

FASTENING FOR WATCH-DIALS.-W. W. DICKERSON, Wilson, Kans. Various attempts a scroll border adjacent to the edge. have been made to provide a secure fastening

OUGHE, Gallitzin, Pa. Mr. Donoughe's inven- line whereby the difficulties attending the usual and the representation being arranged and tion is an improvement in that class of me-! construction and arrangement of dial plate! united to form the back and brace of the chanical movements involving the principle of fastenings are avoided and certain important bracket.

BAKE PAN .-- C. E. and G. M. AUSTIN, Rolstructure preferably struck up from a single SHOE-CLEANING MACHINE.—W. RICH- sheet of metal and having a bottom flanged at ARDSON, Colfax, Wash. The object of this in each side so as to make the pan reversible. circulate freely.

> REVOLVING TURRET.—PHILIP HICHBORN and August O. Bostrom, Washington, D. C. This revolving turret is adapted for large and small caliber guns and is of a double or superparts differing in size and arrangement, the smaller part or gun chamber being super-posed on the other or base part and also placed back from the front of the ladder, and both

LIMEKILN.—A. P. BROOMELL, York, Pa. Mr. Broomell's invention relates to improvements in kilns of the class used for roasting lime-rock. It primarily seeks to provide a be practically impossible for an animal to PARATUS.—A. F. and J. C. Vetter, New kiln especially designed for burning lime by rubbing against it, as sometimes happens with jecting various parts of the human body to other locking devices.

The action of an electrical current. The deconstruction including a steel shell having a construction including a steel shell having a base portion for firmly resting on the ground The hook may be permanently fastened to the readily manipulated being in the form of a and having a special bottom constructed for

will hold the luit of the sail snug against device automatically.

RESPIRATOR.—M. Jacobs and A. P. admit of quickly bending or unbending the sail.

CAN-OPENER.—T. H. C. Lofthouse is the inventor of an improved can opener which inventor of an easily placed in or removed from a receptacle. When the line is unreeled, the cake of chalk will rotate with the reel and the remain stationary and out of engagement with the line, thus preventing undue waste of chalk.

> GAME APPARATUS.—A. S. ALEXANDER, New York, N. Y. The invention relates to a modification of table tennis or ping pong, Special and Automatic Machines built to drawings on the chief variation being the provision of two has been provided by this invention, which nets spaced apart vertically. By this ar Spring Streets., N. Y. is adapted particularly for holding railroad rangement the game is rendered more difficult. Inquiry No. 344 to play as the players must propel the ball. liable manner, and which will afford com- either through the opening between the nets or over the upper net.

COW-MILKER.-E. A. NUGENT. Unionville. N. Y. Mr. Nugent is the inventor of an im- Oil Gas Burner." tray, thus preventing the entrance of impurities from the air in a stable, and preserving the milk for a greater length of time than is possible when air is contained in the bottles

REDUCER FOR OVEREXPOSED PHOTO-GRAPHIC PLATES .- H. G. KRIEGER, Chicago, Ill. Mr. Krieger's improved reducer consists of a mixture of a saturated solution of copper sulphate four parts, and ordinary hydrochloric acid, one part. This solution may be diluted to any desired extent, it being found that even if mixed with ten times its weight in water, it is stll effective, but acts very slowly. Its principal advantages are its

•SCALE.-J. A. HEYDRICK, Butler, Pa. Mr. Heydrick's invention provides an improved scale more especially designed for the use of surveyors, engineers, draftsmen, and other persons, and arranged to permit of conveniently and accurately finding the scale on which a plot, for instance, is drawn, for reducing or enlarging drawings on any scale, for registering units of linear measure and decimal parts thereof, for giving the angle from a line drawn on a map at any point of the line, and for other similar purposes too numerous to mention.

The keeper is designed for use in connection for bicycles. with pins. brooches, and the like. The construction is such that the keeper will be moved to locked position by the insertion of a pin, covering the pin point and thus preventing any possibility of the point scratching a person or becoming caught in a dress, or the like.

Designs.

DESIGN FOR A COVER-DISH.—R. L. JOHNSON, Hanley, county of Stafford, England. The cover of the dish is provided with a scalloped edge and decorated border. At the center at intervals and a floral handle appears in steam heating plants in schools.

The body of the dish is orna-luming No. 2466. For kerosene burners for their midst. of the cover ovi-formed projections are grouped mented at its upper edge with a border corre-; sumer sponding to that of the cover. The base has a scalloped lower edge and is decorated with;

DESIGN FOR WALL BRACKET.—F. C. for dial plates of watches, but the object has still not been completely attained. Mr. Dickerstill not been completely attained. Mr. Dickerof the design consists in the representations of photograph mountings.

MECHANICAL MOVEMENT.-F. J. Don- son is the inventor of an improvement in this the insignia emblematic of the Masonic order

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Com operated machines. Willard, 284 Clarkson Street, Brooklyn.

luquiry No. 3440.-For manufacturers of spoke and handle machinery.

Chagrin Falls, O.

Inquiry No. 3442.—For repair parts for Phænix Telephone Co.'s apparatus. Sawmill machinery and outfits manufactured by the

Lane Mfg. Co., Box 13, Montpelier, Vt. Inquiry No. 3443.—For machines for braiding straw for making bats.

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