

**RECENTLY PATENTED INVENTIONS.
Of Interest to Farmers.**

RAKE-TOOTH CLIP.—L. L. LAUTNER and O. A. JONES, Traverse City, Mich. In the present patent the invention relates to improvements in clips or caps for securing the teeth to the angle-head of a horse hay-rake, the object being to provide a clip or cap with which either a right or left hand tooth may be engaged—that is, a tooth having its end turned either to the right or to the left. The clip of these inventors may be used at both sides of the center.

GLEANING ATTACHMENT FOR THRESHING-MACHINES.—J. HEAZLETT, Glasson, N. D. This inventor's purpose is to provide an attachment to portable threshing-machines, which attachment gleans or gathers the grain lying on the ground or in bundles while the machine travels forward through the field, the machine to which the attachment is applied threshing the grain in the ordinary way, thus rendering it unnecessary to gather the grain by means of teams and wagons and conveying the grain to the threshing-machine stationary at a fixed point.

DRAFT-EQUALIZER.—W. L. G. SCHNEIDER and F. J. EMAL, Pickrell, Neb. The aim of the invention is to provide novel details of construction for an equalizing draft force produced by four draft-animals when attached to a gang-plow or other subsoil-plow, so that both pairs of draft-animals will pull alike and the plow be under control for effective work.

FEED-REGULATOR FOR THRESHING-MACHINES.—A. G. CRITCHFIELD, Rosalia, Wash. In this invention the principal object is the provision of means for preventing too large a quantity of material being fed into the machine irrespective of the amount placed upon the feeding device itself. The invention is applicable to all kinds of threshing-machines and to other machines of a similar character. A great advantage consists in the amount of material fed to the machine being regulated when desired without stopping any of the parts.

Of General Interest.

OIL-WELL SYSTEM.—F. J. MOSER, Kane, Pa. A number of separate wells are connected together, each well being provided with a local automatic valve mechanism, the arrangement being such that one of the wells is flowed, then action at that well ceases and another is flowed, the several wells thus acting in succession. The gas or other aeriform body used in flowing may be withdrawn from the system of pipes and used again. The arrangement also tends to prevent excessive corrosion of the pipes.

BOTTLE-SEAL.—C. INGULLI, New York, N. Y. This invention has reference to a means for sealing bottles and for enabling persons readily to observe that the original closure has been broken. When the bottle is first filled with the genuine goods it may be sealed by the bottler in a peculiar manner and when this seal is once broken and the contents of the bottle decanted persons will be warned against subsequent attempts to impose fraudulent goods upon them.

BOOK.—J. E. UPSTONE, Nashua, N. H. In this case the invention relates to an improvement in that class of books in which the leaves are removable from the covers of the same, and in which provision is made for holding separate sheets in one of the covers and which may be readily removed for filing away. The holder is particularly adapted for use in connection with a system of keeping ice-accounts of drivers' routes, as the loose sheets, ruled and printed for that purpose, are to be taken out each day and filed away for future use. The bound leaves with names and addresses will remain in the holder or book the entire season.

CHESS OR DRAUGHTS BOARD AND CHESS OR DRAUGHTS MAN.—A. W. P. LIVESEY, 40 Bennett Park, Blackheath, Kent, England. The object in view in this invention is the provision of chess and draughts boards so manufactured that they can be doubled up or closed at any moment with the men standing in any position in which they may happen to be, so that in the case of an interrupted game the board can be reopened with all the men standing in the same position which they were in when the board was closed.

UNLOCKING DEVICE FOR SHUTTERS.—A. ENSOR, Jersey City, N. J. The aim of this inventor is to provide an unlocking device for iron shutters of factory, warehouse, storage house, and other buildings windows arranged in case of a fire within a building to give an alarm and to bring the controlling device for the shutter-lock within reach of the firemen or other authorized persons to permit such persons to readily unlock and open the shutters from the outside to gain convenient access to the source of the fire whenever it is deemed necessary.

SUN-DIAL.—S. M. CLARKE, New York, N. Y. This inventor's purpose is the provision of a device simply and easily constructed, while at the same time accurate and neat in appearance. The dial is intended for indoor use, as upon a window sill, and is preferably constructed of thin but stiff paper, and all portions except the translucent belt are preferably colored black, so as to prevent the passage of light except through the slot or opening.

SEALING AND LABELING CAP FOR PRESERVE-JARS.—MARION L. CURRAN, Vermontville, Mich. In this instance the improvement is in the nature of a simple, cheap, and

convenient cap for sealing the tops of preserve-jars, jelly-glasses, and similar receptacles to exclude air, dust, and insects, and which is also so constructed as to be universally applicable as a label to indicate the contents of the receptacles.

STILT.—W. J. TURNBULL, New Orleans, La. In the present patent the invention relates to improvements in walking-stilts, an object of the inventor being to provide a stilt with a foot-block so arranged as to be adjusted along the stilt-staff for any desired height and rigidly held as adjusted.

COMBINED TWEEZERS AND BLACK-HEAD-EXTRACTOR.—F. J. BOEHM, New York, N. Y. Combined with the tweezers are means for expressing blackheads and the like from the pores of the skin; and the aim of the inventor is to provide an improved form of tweezers of very simple construction, having associated therewith a small tube open at one or both ends, by means of which pressure may be applied around a pore to force small masses of inspissated secretion out of the pores.

Household Utilities.

RACK.—C. BERNHARD, Canal Dover, Ohio. Mr. Bernhard's invention relates to racks, and more particularly to those adapted for the drying of clothes and like domestic purposes. It has for its principal object the provision of such a device which may be folded into compact form. The rack, while presenting all the advantages of the ordinary clothes-horse and without sacrificing lightness of construction, may be readily closed into a small compass for storage and quickly set up for use.

SHUTTER-WORKER.—DEW. M. COINER, Statesville, N. C. Mr. Coiner's intention is to provide a novel construction whereby a sprocket-chain may be utilized for opening and closing the shutters, the shutters may be supported in such manner that they may be readily operated and may be removed from the operating or working devices at will, and by which the sprocket-chain may be tightened up whenever desired.

SASH-LOCK.—I. G. FRENCH, Orange, Mass. In the present patent the invention has reference to a window-sash lock adapted to be applied to the meeting-rails of the sashes and of such a construction that it will automatically lock the sashes as they are moved into a closed position. In the operation of the device an advantage lies in means that prevent a relatively sidewise movement of the sashes and the rattling noise incident thereto.

CURTAIN-POLE.—J. KRODER, New York, N. Y. The invention refers to curtain-poles, curtain-rods, and like fixtures; and its object is to provide a fastening means for conveniently and removably attaching a knob to the end of such fixture and to reinforce the knob to allow of fitting knobs to different-sized poles or rods.

SIFTER.—H. K. BENDER, Weehawken Heights, N. J. The purpose of this inventor is to provide a construction which will be dust-proof, and wherein the receptacle for the material may be operated without any escape of dust at the opening in the casing through which the operating medium for the said receptacle extends, and wherein all the operative parts of the receptacle may be removed in order that only the body of the sifter containing the dust may be conveyed to the dumping-ground or to a reservoir and contents conveniently emptied.

Machines and Mechanical Devices.

CONVEYER AND DISTRIBUTER.—J. W. STEVENS, Trenton, N. J. In this case the improvement relates to an apparatus intended particularly for handling concrete, but useful in connection with various other materials. It comprises, generally speaking, a boom on which is arranged a conveyor, and mechanism for automatically swinging and raising the boom, so as to deposit the material handled by the conveyor at any desired point within the range of the machine.

MEAT-CUTTER.—A. W. JOHNSON, New Brunswick, N. J. This inventor provides a knife-blade quickly sharpened and mounted for movement to avoid rubbing or wearing against the cheeks or end of the bed; provides means for guiding knife-frame and for adjusting it to the end that the knife cuts slices of meat of required thickness; provides means for arresting the swing of knife-frame with minimum jar and shock on machine, as well as to reduce wear on co-operating parts of the bumpers; provides an improved form of bed by which the charge of meat is prevented from slipping out while being cut; produces a new style of follower, which can not be lifted accidentally out of operative position, and provides means for clamping adjustable meat-claw to the follower.

MASSAGE-MACHINE.—MAY CHAFFIN, Huntington, W. Va. In this instance the invention is in the nature of a novel massage-machine for applying a vibratory or frictional massage to various parts of the body and also for cleaning the teeth, and which device is so constructed as to be capable of easy attachment to and operation by the ordinary family sewing-machine.

LEMON-SQUEEZER.—P. MCGRATH, Hibbing, Minn. In the squeezer devised by this inventor, a pinion on a handled shaft operates two racks in opposite directions, one of which carries a cup for receiving the lemon and the other a cover for the cup and plunger. When the cup and plunger are moved toward each

other the lemon is squeezed and the juice finds outlet through grooves in a removable plug in the cup bottom, to a tumbler held beneath the cup.

Prime Movers and Their Accessories.

BOILER-FLUE CLEANER.—F. W. JACKSON, Needles, Cal. Mr. Jackson's invention relates to an improvement in cleaners for boiler-flues which while susceptible of general use in connection with boiler-flues is particularly applicable in oil-burning locomotives. In funnels in general use and in cleaners of this type the sand frequently goes all in a lump, and when the exhaust from the engine is light a large part of the sand falls in front of the oil-burner, generally set very low, and this sand immediately forms into heavy carbon. The inventor overcomes these objections by feeding and mixing atmospheric air with the sand as it is drawn from the funnel.

BOILER-CLEANER.—F. D. McMILLAN, Atlanta, Ga. In this patent the invention is an improvement in devices for use in cleaning steam-boilers or other closed receptacles and by which to blow out any accumulations of mud or other semisolid matter from the various parts of the boiler and to make it possible to reach corners and all other points in the boiler by water or other liquid sand, paints, dust, air, or other fluids as may be desired.

ROTARY ENGINE.—C. F. ULRICH, New Haven, Conn. In the present patent the invention has reference to improvements in rotary engines, the inventor's object being the provision of a motor of this character of comparatively simple and inexpensive construction and by means of which the motive agent, such as steam, will be economically used.

Railways and Their Accessories.

STAKE AND STAKE-HOLDER.—C. W. SMITH, Makaweli, Kauai, Hawaii. The invention pertains to improvements in stakes and stake-holders, particularly for use on sugar-cane cars but adapted for use on other vehicles, the object being to provide a detachable stake and holder that cannot be destroyed by fire or easily lost and that is not liable to be stolen, thus providing a much more economical device than the usual wooden stakes which are often left in the field and destroyed with burning trash or stolen and used as fire-wood.

OILING DEVICE.—W. A. HUFF, New York, N. Y. Mr. Huff's invention pertains to a device for oiling bearings, and while it is especially applicable to the oiling of car-axle bearings it is capable of use upon any other kind of a bearing. The object of his improvement is to provide for a ready and continuous flow of oil from a pool of oil to a bearing. For this purpose the inventor makes use of centrifugal force.

DEVICE FOR CHANGING RAILWAY STOCK-CARS FROM SINGLE DECK TO DOUBLE DECK, AND VICE VERSA.—H. C. CARSON, Cheviot, Ohio. The invention is an improvement in stock-cars, being in the nature of devices whereby the car may be readily changed from single deck to double deck, and vice versa; and an object is to provide improvements in construction of the stock-cars whereby a removable second floor or deck may be employed in a railway stock-car above the ordinary floor and which shall be practical, durable, strong, and cheap, and will operate to make the car so constructed safer and stronger with the improved devices than it would be if the same were omitted.

Pertaining to Vehicles.

VELOCIPEDA.—F. M. THOMPSON, East Liverpool, Ohio. This improvement is in velocipedes, being in the nature of a combination, with a carriage in the form of a sulky, of the figure of an imitation horse, having legs connected with the propelling devices of the carriage in such manner as to be operated as the carriage is propelled, and the legs being so formed as to simulate the action of a horse.

CUSHION-TIRE-ATTACHING MEANS.—MARY E. BROOKE, Denver, Col. The invention is an improvement in that form of composite tire for bicycles, automobiles, and the like, which consists of an inner member and an outer inclosing member, and means connected with the latter for holding both duly engaged and secured to the wheel-rim. Certain improvements are devised in the construction and arrangement of parts, whereby a stronger and more durable composition tire is produced and securely attached to the wheel rim.

TIRE.—C. MILLE, Binghamton, N. Y. The inventor devises means for securing the casing and core to rim of wheel retaining the cushioning effect of the tire and yet preventing creeping and movements tending to displace or disturb proper position of tire on the rim. He attains this by employing, in addition to usual side clamps, an interior clamping device, which coats with side clamps in holding the casing and elastic core. Preferably the clamping device comprises two strips of wood or other material which bear on sides of a longitudinal rib on the core and between sides of casing, said parts being pressed laterally together by side clamps and strips drawn in against the rim by radial fastenings passing therethrough.

NOTE.—Copies of any of these patents will be furnished by Munn & Co. for ten cents each. Please state the name of the patentee, title of the invention, and date of this paper.

Business and Personal Wants.

READ THIS COLUMN CAREFULLY.—You will find inquiries for certain classes of articles numbered in consecutive order. If you manufacture these goods write us at once and we will send you the name and address of the party desiring the information. **In every case it is necessary to give the number of the inquiry.**

MUNN & CO.

Marme Iron Works. Chicago. Catalogue free.

Inquiry No. 6607.—For the makers of a fruit can holder and opener.

For logging engines. J. S. Mundy, Newark, N. J.

Inquiry No. 6608.—For makers of an apparatus for burning Beaumont or similar crude oil in fire-places or grates, for heating purposes.

"U. S." Metal Polish. Indianapolis. Samples free.

Inquiry No. 6609.—For a machine for cutting an orange in horizontal slices and lessening same from the peeling without removing, after the orange has been cut in halves.

Perforated Metals. Harrington & King Perforating Co., Chicago.

Inquiry No. 6610.—Wanted, address of manufacturers or importers of some new advertising specialty.

Handle & Spoke Mch. Ober Mfg. Co., 10 Bell St., Chagrin Falls, O.

Inquiry No. 6611.—For manufacturers of pictures printed in two tints, apparently out of register, which when looked at through colored glasses, become stereoscopic views.

Adding, multiplying and dividing machine, all in one. Felt & Tarrant Mfg. Co., Chicago.

Inquiry No. 6612.—Wanted, address of manufacturer or importer of lithographed, varnished parchment, transparent calendars and show cards.

Sawmill machinery and cutlery manufactured by the Lane Mfg. Co., Box 13, Montpelier, Vt.

Inquiry No. 6613.—For dealers in photographs or fac-similes of prominent personages in all professions.

Special Machinery to order, manufacturing, metal stampings, etc., Bickner Machine Co., Tiffin, Ohio.

Inquiry No. 6614.—For makers of an electrical carpet beater, or an apparatus for renovating carpets.

The celebrated "Hornby-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Machine Company, Foot of East 138th Street, New York.

Inquiry No. 6615.—For parties to manufacture small spiral and small flat springs to order.

In buying or selling patents money may be saved and time gained by writing Chas. A. Scott, 719 Mutual Life Building, Buffalo, New York.

Inquiry No. 6616.—For parties to manufacture dies and small sheet metal parts.

We manufacture iron and steel forgings, from twenty pounds to twenty-five tons. Crank shafts of all varieties. Erie Forge Company, Erie, Pa.

Inquiry No. 6617.—For machinery for crushing linseed and cottonseed, and refining their respective oils.

I have every facility for manufacturing and marketing hardware and housefurnishing specialties. Wm. McDonald, 190 East Main St., Rochester, N. Y.

Inquiry No. 6618.—For manufacturers of machinery for making shuttles as are used in cotton mills.

Sheet metal, any kind, cut, formed any shape. Die making, wire forming, embossing, lettering, stamping, punching. Metal Stamping Co., Niagara Falls, N. Y.

Inquiry No. 6619.—Wanted, a machine for making single-loop hay bale ties.

The SCIENTIFIC AMERICAN SUPPLEMENT is publishing a practical series of illustrated articles on experimental electro-chemistry by N. Monroe Hopkins.

Inquiry No. 6620.—Wanted, addresses of dealers in canning machinery.

General Utilities Company, 60-62 Liberty Street, N. Y., offers unusual facilities for placing inventions and devices of merit before the public. Correspondence invited.

Inquiry No. 6621.—For manufacturers of a process for extracting oil from raisins or olive pomace.

We manufacture gasoline motor and high-grade machinery, castings best quality gray iron. Select patterns, and let us quote prices. Frontier Iron Works, Buffalo, N. Y.

Inquiry No. 6622.—For makers of ice cream machines of 25 or more gallons' capacity.

WANTED.—Colonial silverware. Any one wishing to sell any authentic silver made in this country during the eighteenth century, please communicate with C. A. M. Box 773, New York.

Inquiry No. 6623.—For the manufacturers of the Brown Cochran Carbonic Ice Machine.

VALUABLE PATENT FOR SALE.—An indispensable article for women. Has large demand in all department stores. Patent No. 774,191. Address Acme Hygienic Co., 132 West 9th Street, New York.

Inquiry No. 6624.—For manufacturers of machines for desiccating cocoanuts and other necessary machinery for a cocoanut plant, as slicing, shredding, grating, etc.

Manufacturers of patent articles, dies, metal stamps, screw machine work, hardware specialties, machinery and tools. Quadrige Manufacturing Company, 18 South Canal Street, Chicago.

Inquiry No. 6625.—For makers of paper tape such as used in stock machines, telegraph instruments etc.

Briquetting of coal, peat, sawdust, ores or any waste. Artificial fuel machinery. \$3 per H. P. per year from peat. Fuel, \$1 per ton. Descriptive circular free. Julius Gordelle, Kingsbridge, New York City.

Inquiry No. 6626.—Wanted, a machine for perforating piano music rolls.