

RECENTLY PATENTED INVENTIONS.

Pertaining to Apparel.

BLOUSE.—SARAH OPPENHEIM, New York, N. Y. The invention has reference especially to the type of blouse such as worn by children which is provided with an elastic band or belt which is concealed in the hem provided at the lower edge of the garment. In blouses of this type difficulty is met in washing, due to the presence of the band. The object is to produce a blouse having a concealed waistband or belt which may be readily removed to enable the blouse to be washed and which is at the same time capable of adjustment.

GAUNTLET.—J. M. SALVÉ, JR., New York, N. Y. This invention relates to a peculiar stiffened cuff, specially for gauntlets such as are employed by military officers, carriage and automobile drivers, and for similar uses. The object is to construct the cuff so that it or the gauntlet, if the cuff is attached thereto, may be conveniently folded into a small compass, enabling it to be placed in the pocket when not in use.

GARMENT-FASTENER.—H. BRISACHER, New York, N. Y. This improvement relates to means for removably fastening the parts of garments or other flexible cloth articles. It is adapted especially for use as a cloth-fastener, although applicable for other uses. The aim is to provide a device which may be conveniently manipulated to engage or disengage the garment-sections and which will be of such structure as to securely hold the garment against accidental disconnection.

HAT-FASTENER.—JOHANNA M. BOYLE, New York, N. Y. This fastener is applied to hats for the purpose of securely holding them in position without the use of detachable fastenings, which are always liable to get out of place and even lost. The principal objects of the inventor are to provide a device which will be mounted on the hat at all times and which can be readily manipulated to secure the hat firmly in position.

Electrical Devices.

APPARATUS FOR OZONIZING ATMOSPHERIC AIR.—E. L. JOSEPH, 27 Chancery Lane, London, England. This invention relates to apparatus for ozonizing by the silent discharge of a high-tension electric current, and its object is to provide a compact, self-contained, and portable machine which shall be free from liability to cause annoyance by the transmission of vibration and wherein all the moving parts are so housed as to be inaccessible to unauthorized persons. It may be used with either an alternating or a direct current.

ELECTRIC FAN.—H. D. CESSNA, San Francisco, Cal. The more particular object in this case is to produce a type of fan driven by a motor and capable of shifting bodily from one point to another while in action. The invention relates to certain constructional details for improving the efficiency of the fan and for enabling it to be moved automatically.

Of Interest to Farmers.

CULTIVATING-PLOW.—F. M. RIVERS, Lake Butler, Fla. In this case the invention refers particularly to the construction and form of the foot or standard of the plow or cultivator and to the arrangement of braces in connection with such standard and the beam. By the arrangement of braces and construction of the standard maximum lightness, strength and rigidity are attained.

Of General Interest.

MAGAZINE-FIREARM.—C. G. ANDERSON, Blair, Neb. One purpose here is to provide an arm with a movable magazine divided into two separate chambers, each provided with shells filled with a different kind of ammunition, and to pivot and guide the magazine relative to the frame and barrel in order that either chamber may be brought into vertical alignment with the barrel and in position to deliver a cartridge to the carrier in the frame, which in its turn in conjunction with its breech-bolt deposits the cartridge in the barrel. The gun is a combination target and sporting rifle and is not simply intended for securing greater magazine capacity. Change from one cartridge to another is instantly done, thus securing the advantage of two different guns.

HARNESS-HANGER.—J. A. HAMMER, Elkton, S. D. This improvement refers to devices for supporting harness in a stall or stable and which are therefore usually termed harness "hangers" or "pegs." It is requisite that such device should be so constructed that the harness should be held securely, but may be easily applied to and removed from the support.

APPARATUS FOR USE IN CLEANING BEER-COILS.—C. A. CHANDLER, Carlisle, Pa. This apparatus comprises a cylinder for holding a caustic substance, aligned inlet and outlet hot-water pipes, connected with the opposite ends of the cylinder and each provided with a stop-cock, and a supplemental cold-water pipe provided with a stop-cock and connected with the outlet-pipe at point in rear of its stop-cock.

COMBINED FLUE EXPANDING AND BEADING TOOL.—J. V. TERRY, Tucson, Ariz. Ter. In this instance the improvement is adapted to perform the operations of expanding and beading simultaneously and in half the time required by the ordinary method, and

the operation may be repeated as often as desired without destroying the flue or defacing it in any manner.

DISPLAY-RACK.—G. H. NORTH, C. S. SMITH, and W. F. BREWSTER, Pocatello, Idaho. This rack or stand is more especially designed for supporting and displaying a pile of garments—such as trousers, coats, vests, and the like—and arranged to permit ready removal of any of the garments without disarrangement and to allow of convenient access to one side of the pile to enable the salesman to quickly read the size and price tickets whenever necessary with a view to keep the stock in good condition.

ORE-ROASTER.—R. E. WICKHAM, University, N. D. The invention relates to improvements in machines for roasting ores containing compounds of sulphur or the like, the object being to provide a device of this character that will be simple in construction and by means of which the separation of sulphur or other matter susceptible to heat may be rapidly carried on.

FLUE-STOPPER.—L. RUSSELL, Carthage, Ill. This device is adapted to be inserted in the mouths of flues after removal of a stove-pipe or other smoke-conductor therefrom for the purpose of excluding dust or dirt and preventing soot from entering the apartment. The invention is an improvement upon the stopper for which Mr. Russell received former Letters Patent of the United States.

BLASTING-CAP.—D. MCEACHERN, Erie, Canada. The invention is an improvement in blasting-caps, and has for an object the provision of a novel construction of cap whereby to prevent the passage of water to the explosive within the cap. In use the plug is fitted in the cap, the latter being properly charged, after which the fuse end is inserted within the plug close to the explosive charge. After this the cap is crimped one, two, or more times, as is usual in this class of devices.

SHAVING-BRUSH.—J. W. HAWKINS, Passaic, N. J. The object of the invention is to provide a brush arranged to collect the drippings, and thus prevent the same from soiling the hand employed for manipulating the brush to apply water and lather to the face and to allow of freshening of the lather by the drip-water gathered whenever it is desired to do so.

HAME-FASTENER.—J. W. GONCE, Kinderhook, Ala. This invention has reference more especially to hame-fasteners of the lever type. It is simple in construction and not expensive to manufacture, besides being adaptable to hames of varying shapes and sizes thoroughly effective and reliable in operation and capable of long service.

BUCKLE.—J. W. GONCE, Kinderhook, Ala. The inventor employs a base-plate associated with certain parts of which is a swing-bar or tongue for effectively engaging the back-band, web, or other device on which the structure may be used. The bar is mounted in special bearings therefor, preferably formed integrally with the plate, and the embodiment is such that the band or web is securely clamped at places and for the full width between the bar and parts of the plate, to derive a more secure fastening for the band, web, and the like.

HORN.—C. R. BREEN, New York, N. Y. The main object of the invention is to produce a superior horn or trumpet to those hitherto devised for use in connection with phonographs or other talking-machines and one which is highly resonant, but devoid of the objectionable metallic sound so often met in devices with a like object in view.

Hardware.

HINGE.—T. E. SPRAGUE, Nashua, N. H. One object of this inventor is to provide a hinge with means for preventing the usual fastening-pin for the joint between the members from working upwardly or out of place during the swinging movements to which they may be subjected in use, thus overcoming any unsightliness in the appearance of the hinge and tending in large measure to prevent separation of the members.

NUT-LOCK.—J. V. BERRY, Shamokin, Pa. The invention is an improvement in nut-locks, and particularly in locks operating in connection with bolts having right and left threads. After the nut has been turned home and the locking device secured down against the end of the nut the shank or handle may be bent down alongside the nut, thus locking the same firmly against any movement.

Heating and Lighting.

FURNACE.—E. E. JONES, Cleveland, Oklahoma Ter. Means in this invention are provided for causing the heavier and lighter bodies of the gases of combustion to take movement along crossing lines, thus bringing about repeated intimate association between colder and hotter gases and causing the combustible in the colder which would otherwise escape through the stack to be ignited and consumed by the hotter gases. As the gases pass from the fire-box all of the combustible in the gases is burned and the best thermal efficiency is attained.

Machines and Mechanical Devices.

TUCKING-GUIDE FOR SEWING-MACHINES.—ELLA SERODINO, New Orleans, La. The objects of the invention are to provide an attachment of easy adjustment to any sewing-machine, having a firm hold on the ma-

chine cloth-plate, with a flexibility of the gaging-sections, rendering it easy to place material to be sewed within the same, and so constructed that by the adjustable parts any width of tuck may be sewed and the distance of the tuck from previously-sewed tucks regulated without marking or folding of the material sewed and laces may be sewed upon hems or ruffles or inserted with the accuracy of hand work.

COPYING-PRESS.—J. A. A. D'AYGUESVIVES, 132 Avenue Victor Hugo, Paris, France. This press is so constructed as to require the smallest possible space, giving at the same time a pressure which will be powerful and uniform at all points. It is not necessarily secured to a support and insures a uniform pressure with the same stroke of the operating-lever whatever be the thickness of the copy-book or the parts to be pressed.

LUBRICATING SYSTEM.—W. HIGHT, Newport, Vt. The invention refers to means for lubricating the various portions of a machine, it being especially applicable to the engines of such types of automobiles as the Stanley carriage. Its principal object is to provide a system of this character in which the operator may lubricate all the frictional surfaces of the engine at the desired intervals without leaving his seat.

COLUMN-CLAMP.—J. L. GOSS, Newcastle, Ind. The clamp can be easily and quickly operated both in applying to and removing from columns or other bodies where a flexible clamp is desired. It is especially designed to be operated by the lever mechanism which can be attached and detached after the clamp is applied, thereby lessening the weight of the clamped article and at the same time allowing the lever mechanism to be used in applying other clamps.

ROPE-SHEAVE.—F. SCHULTZ, Tamaqua, Pa. The aim of this inventor is to provide a sheave having separate tread-sections, any one of which when worn out or broken can be quickly and conveniently removed and replaced by a new one without disturbing the position of the rope or removing the spokes and hub from the sheave, the sheave being principally designed for use on the hoisting machinery of mines and the like.

GRINDING-MILL.—W. A. KRAMER, Muncy, Pa. An important object of this invention is to provide means for mounting the grinding members so that they may be readily separated for repair and other purposes. A further object is to provide for the effective lubrication of the running parts and to prevent breakage of the grinding-wheels in the event that a hard substance is passed between the wheels. It is intended particularly for grinding grain.

ADDING AND RECORDING MACHINE.—A. K. ERSLAND, Fruithurst, Ala. This machine is constructed in such a manner that the carriage moves automatically in adding and returns to the initial position without necessitating any setting of the carriage for the order of the left-hand figure, and yet at the same time it provides that the highest figure of any sum shall be struck off first on the registering-keys, each successive figure being struck off in the natural order. Means provide for locking the key-levers to secure rotation of the type-wheels; for carrying from a lower to a higher order, and for correcting errors before the sum is added.

HAND-BORING MACHINE.—J. W. CONE, Barnesboro, Pa. In the present patent the invention has reference to hand-boring machines, and the object of the improvement is the production of a machine of this class which is especially adapted for boring holes in joists for passing wires in electrical construction.

HAT-PRESS.—H. S. BLAKE, Middletown, N. Y. The principal object in this instance is to provide means whereby the die which has the elastic casing can be forced against the companion die with the requisite pressure and simultaneously with the application of pressure to the casing interior. The invention contemplates the movements of the solid die, if desired, into a proper position for commencing the pressure operation; but the compression is obtained by simultaneously expanding the casing and forcing the die which holds it against the other die.

LAND GRADER AND SCRAPER.—A. P. D'ARTENAY, Dixon, Cal. The more particular object in this case is to provide the instrument with a scoop which may be adjusted at will and placed in a large number of positions and thus made to perform a variety of offices. It further relates to means for raising and lowering the frame of the machine.

HOISTING APPARATUS.—W. N. BERGERON, Avoca, La. A vehicle is employed which may be propelled in any desired way, as by one or more horses or other animals hitched thereto, special means being mounted on the vehicle for raising and lowering a grappling device for cane or other material to be hoisted, said means being provided with operating devices for carrying the grappling device to positions by which the same may be operated to take up loads or bundles of cane at different places within a limited radius.

PEANUT-STEMMER.—C. E. NELMS, Smithfield, Va. In carrying out his invention, Mr. Nelms employs a suitable frame comprising side bars, and in this frame journals a series of parallel rollers arranged in sets of four, certain rollers of the several sets being geared together and the intermediate rollers between the last mentioned rollers being idlers and being re-

volvied by friction with each other and with the geared rollers.

Prime Movers and Their Accessories.

FURNACE FOR STEAM-BOILERS.—J. LIVINGSTONE, Montreal, Canada. In principle the invention comprehends disassociation of oxygen and hydrogen of steam in the fire-box and their union with the fuel to produce a water-gas. The steam is so superheated and its contact with heating-surfaces so prolonged as to insure disruption of the elements which elementary gases by their tenuous and expansive character pursue, overtake, and combine with the carbon particles while yet in the box and by quickly forming a water-gas and immediately burning it by the oxygen present reaches the result aimed at.

ROTARY ENGINE.—T. DAVIS, New Haven, Conn. The present improvements relate to the valve mechanism controlling admission of steam or air to the piston-cylinder, to the antifriction bushing or lining for the cylinder, also to the spring-pressed packing for the ends of the piston and to elastic or spring packing for the ends of the blades which are pivoted to and revolve with the piston. It is an improvement upon the engine for which Mr. Davis received a former Letters Patent.

Railways and Their Accessories.

RAILWAY-TICKET.—C. H. McDERMOTT, Eveleth, Minn. This is an improved round-trip ticket for use on railways. Its form will obviate mistakes in checking passengers, and passengers will not be so frequently missed or overlooked, and the conductor can "work" his train in about half the time now ordinarily required.

RAILWAY SIGNAL SYSTEM.—R. O. TURNER, Barre, Vt. The object of the improvement is to so arrange the circuit-wires for electric signal-lamps at the ends of the block that the circuit may be closed by devices carried by a locomotive or car to give two flashes of the lights when the train is moving in one direction and a single flash when moving in the opposite direction, thus informing the engineer of any train that may be approaching the block as to the direction in which the train in the block is moving, and therefore prevent possible collision.

Pertaining to Recreation.

SKATE.—R. W. SHELMIRE, Roanoke, Va. The body of this skate is of special construction, and comprises cushioning devices, also of special construction, the two said elements being so associated as to give the best results. The cushioning devices may readily answer or take the place of the cushioning-tires employed on the wheels of roller-skates, although their use may still be continued. A specially-constructed brake device is employed for the skate.

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.

- Marine Iron Works, Chicago. Catalogue free.
- Inquiry No. 8337.**—Wanted, machines for making paper straws.
- "U. S." Metal Polish, Indianapolis. Samples free.
- Inquiry No. 8338.**—Wanted, apparatus for transmitting mail bags to trains while in motion.
- Forbridge erecting engines, J. S. Mundy, Newark, N. J.
- Inquiry No. 8339.**—Wanted, names and addresses of dealers in talc or mineral clay, and cobalt ores; also all other useful ores.
- Handle & Spoke Mch'y, Ober Mfg. Co., 10 Bell St., Chagrin Falls, O.
- Inquiry No. 8340.**—Wanted, a water motor from 2 to 5 h. p., with governor that can be used to run a generator for lighting purposes, or a direct connected motor to dynamo.
- Sawmill machinery and outfits manufactured by the Lane Mfg. Co., Box 13, Montpelier, Vt.
- Inquiry No. 8341.**—For parties engaged in twisting or making wires, screws, etc. into different shapes. I sell patents. To buy, or having one to sell, write Chas. A. Scott, 719 Mutual Life Building, Buffalo, N. Y.
- Inquiry No. 8342.**—Wanted, a machine for cutting several folds of cloth into different shapes, etc.
- Metal Novelty Works Co., manufacturers of all kinds of light Metal Goods, Dies and Metal Stampings our Specialty. 43-47 S. Canal Street, Chicago.
- Inquiry No. 8343.**—For parties engaged in canning eggs for commercial use.
- The celebrated "Hornsbly-Akroyd" safety oil engine. Koerting gas engine and producer. Ice machines. Built by De La Vergne Mch. Co., Ft. E. 138th St., N. Y. C.
- Inquiry No. 8344.**—Wanted, makers of a gas and lighting machine, in which the air brought to the burner is charged with the volatile hydrocarbons of the gasoline.
- Manufacturers of patent articles, dies, metal stamping, screw machine work, hardware specialties, machine work and special size washers. Quadriga Manufacturing Company, 18 South Canal St., Chicago.
- Inquiry No. 8345.**—Wanted, makers of electroplating apparatus.
- Inquiry No. 8346.**—Wanted, an apparatus for burning alcohol in gaseous form.
- Inquiry No. 8347.**—Wanted, to buy black skunks' tails which are brought on the market by furriers as a waste product.
- Inquiry No. 8348.**—For manufacturers of illuminating lamps that would burn denatured alcohol.
- Inquiry No. 8349.**—Wanted, parties who could manufacture pressed metal coat hangers.