

RECENTLY PATENTED INVENTIONS.

Of Interest to Farmers.

**HARVESTER.**—C. O. WYMAN, Anoka, Minn. The prime object in this case is the provision for a four-wheeled frame and to drive all of the operative parts of the harvester and its binding mechanism equally from said wheels, thus giving the apparatus a more certain and stable base and providing mechanism which will operate with uniform efficiency unaffected by inequalities in the ground over which the machine is being drawn and by turning of the machine from one side to the other.

**HOLDER FOR SICKLE-BARS.**—O. NORTON, Hartington, Neb. Mr. Norton's invention relates to means for supporting such cutting members as the sickle-bars of reapers and mowers in proximity to a grinding-wheel to permit them to be properly sharpened. Its principal objects are to provide a simple and convenient holder for this purpose.

**COTTON-SEED LINTER.**—W. C. ROBINSON, Pensacola, Fla. The seed is fed into the chamber through the hopper and is there passed over the surface of a drawing-cylinder by the float. The rough surface of the granular material draws the lint from the seeds and carries it between the upper grate-bars, which retain the seeds themselves. The lint is then carried along by the cylinder until removed by brushes and discharged from an opening. The seed when cleaned becomes small enough to pass between the drawing-cylinder and the finger-bars, whereupon it falls on and is directed by the lower grate through an opening. Means provided for seizing and removing the lint from seeds has no tendency to break the former. Independence of upper and lower grate-bars permits separate adjustment to suit conditions.

Of General Interest.

**AMMUNITION-CARRIER.**—E. T. GIBSON, Matawan, N. J. The primary object of the invention is to provide an ammunition carrier, which is supported on the shoulder in such manner that none of the packages come between the arm and the body. The second object is to arrange the device so that the cartridge-bearing packages may be readily removed and replaced with fresh ones.

**BILL-HOLDER.**—R. FERRIS, Monmouth, Ill. Mr. Ferris's invention relates to improvements in devices for holding bills in offices or by collectors. The object of his improved device is to provide a very simple and inexpensive construction, which will be found very efficient in practice.

**HOOP.**—ANNA M. CLARK, Hoboken, N. J. The hoop is provided with a number of bells mounted to swing from its inner face, the clappers of the bells operating as the hoop is rolled. The bells are so spaced that one will not interfere with the other, and none of them will retard the motion of the hoop, but rather tend to augment and prolong the rolling action of the hoop after it is set in motion.

**WEIGHT-INDICATOR FOR WEIGHING-SCALES.**—D. F. CURTIN, Chicago, Ill. This device is arranged to give notice to the dealer when the approximate quantity of material is on his scales, so that the remaining portion may be carefully added to avoid overplus. This overplus of weight which is frequently given, especially in busy times, is a serious factor of loss, particularly in such commodities as sugar, where the profits are small. The present invention is an improvement on one previously patented by Mr. Curtin.

**NON-REFILLABLE BOTTLE.**—H. BREWSTER, New York, N. Y. Mr. Brewster's invention relates to a bottle provided with devices for preventing it from being refilled, after its original contents have been decanted. Upon attempting to force liquid through the neck into the bottle, a set of valves are caused to seat, thus closing the mouth of the bottle and preventing it from being refilled.

**HARNESS.**—A. D. CARPENTER, Woodbridge, N. J. Many attempts have been made to improve the present form of saddletrees and their accessories; but heretofore no one has succeeded in devising a saddletree having a removable check hook provided with efficient means for securing it in place. The object of the present invention is to secure this important result.

**HYGROMETER ATTACHMENT.**—J. H. GERRER, El Reno, Oklahoma T. Y. The apparatus is designed to be applied to cigar cases for indicating the degree of moisture or dryness within the case, so that the cigars may be kept at a uniform degree of moisture without deteriorating. It may also be applied to the interior surface of the glass window of an incubator, a hothouse, or any other situation where it is desirable to know and to regulate the degree of moisture. The present invention is an improvement on a hygrometer attachment previously patented by Mr. Gerrer.

**VALVE.**—O. M. ALEXANDER, Anniston, Ala. The object of the invention is to provide an improved valve for use with liquid, steam, gas, or air vessels, pipes, and faucets, and it is more particularly an improvement upon the valve for which Mr. Alexander has filed a separate application. The distinguishing feature of both valves is the construction of the valve proper, and its arrangement relative to its seat in such manner that the pressure of liquid or steam upon the inner side of the valve holds it to the seat, and the outflow passage is on the outer side of the valve.

**BUNG.**—J. FRANKE, New York, N. Y. This bung is capable of uses for all purposes to which bungs are applied, but is especially adapted for use upon beer and ale barrels and the like. The principal objects of the invention are to provide means whereby the tube of a faucet can be introduced through the bung into the barrel without danger of any of the contents being discharged except through the faucet. Mr. Franke has invented another bung the main object of which is to provide means whereby a tube such as those commonly used for drawing liquids such as the above can be inserted in a key applied to the bung and the key turned in such a manner as to permit the tube to be forced entirely through the bung into the barrel without obstruction.

**GUN-CLEANER.**—E. M. MOOS, W. HARDIN, and F. A. BERNARD, Lincoln, Ill. In this patent the invention is an improvement in gun-cleaners, having for an object to provide a novel construction by which to clean the accumulations from within the barrels of guns. The construction is simple, easily operated, and will be found to operate efficiently for the desired purpose.

**CONCRETE COMPOSITION.**—L. LANE, Toledo, Ohio. This composition consists of an aggregate and a cementing material proper, which unite, and thereby produce a concrete substance having special properties—such as durability, lightness, strength, uniformity of texture, etc.—one special property being the capacity of the substance to receive and retain nails driven therein without breaking or chipping under hammer blows. The composition is made in four ways, more or less allied, and is adaptable for a great variety of purposes.

**AWNING-SUPPORT.**—C. E. YENOR, Rhineland, Wis. The support is of simple construction and can be readily adjusted into different positions. Its construction prevents straining the covering or the awning when it becomes wet or dry. The invention is most useful as a support for the canopy or awning carried over small pleasure boats or launches; but it may be applied to various situations where desirable to adjust the awning into various positions to keep off sun or rain.

**MATRESS-ENVELOP.**—JOSEPHINE VAN SLYKE, Detroit, Mich. This enveloping-cover is readily applied and removed, perfectly protects the entire surface of the mattress-cloth from contact with anything which might soil or infect it with disease germs, may be quickly exchanged for a clean one at proper intervals of time, thus conducing to personal comfort of the occupant of the bed, affords complete sanitary protection, and reduces wear of mattress fabric to a minimum.

**SHEARS AND SCISSORS.**—O. C. ABBOTT, Butte, Mont. The action of conferring a drawing and shearing movement to the normally upper blade of the instrument as used, is effected by the provision of two spaced rock-arms as connections between the cutting-blades, which arms are so disposed that the quick opening movement of the blades is effected with a limited divergence of the handle-bows by the location of one rock-arm that serves as a fulcrum near the bows. The relative position of the two arms adapts them for joint action as toggle-levers, increasing the manual power applied upon the bows for closure of the blades and the shear-cutting of material with which they engage.

Heating and Lighting.

**INCANDESCENT GAS-LIGHTING.**—C. SCOTT-SNELL, 51 Victoria street, Westminster, Middlesex, England. The invention consists in a system comprising a number of burners, each burner being supplied with gas and with air under a relatively very small pressure through a comparatively large conduit of small resistance, such air-supply being obtained conveniently from a fan driven by a suitable motor, preferably an electric motor. The several branches from the conduit connecting to the burners are also of large bore and arranged without taps or the like, so that the resistance of the conduit and its branches is practically the same, whether the burners are in use or not. The system is of great value in flour-mills or dusty warehouses.

**STENCIL-FRAME AND MOUNTING THEREFOR.**—H. J. PALMER, New York, N. Y. Mr. Palmer's invention has reference to stencil-frames and mounting therefor, his particular object being to produce a stencil-frame suitable for street-lamps and used for advertising purposes, also for reflecting the light in a particular zone.

**CHANDELLIER.**—T. D. GREENE, Davenport, Wash. The object of the inventor is to produce a chandelier which may be easily adjusted to different heights. The body of the chandelier carrying an arm and electric lights may be raised or lowered. Means are provided to lock the body frictionally against further movement. Under ordinary circumstances it is not necessary to readjust a part of the means once the same has been adjusted properly, so that a substantial frictional resistance is afforded to the movement of the chandelier-body. On this account it is usually simply necessary to grasp the lower part of the chandelier and force it up or down.

Machines and Mechanical Devices.

**FIRE-ESCAPE.**—D. S. SEBASTIAN, Wallace, Idaho. The invention relates to improvements in fire-escapes, the object being to provide a

portable escape that may be quickly raised and lowered and also leveled or tilted laterally when necessary. It will also be found convenient for the use of linemen in stringing wires or making overhead repairs.

**TICKET-PUNCH.**—R. T. PRISCICELLI, Corso Umberto 1, No. 23, Naples, Italy. The machine which forms the object of the present invention is provided with as many compartments as there are colors—that is, prices of the tickets—and each compartment has a counter, which counts the disks falling into it. By this arrangement the counting of the disks is mechanically performed. The machine is further provided with a locking device which prevents its working when the actuating-bar is pulled by mistake without the ticket being inserted.

**TYPE-WRITING MACHINE.**—T. C. SMITH, Spokane, Wash. One purpose of this invention is the provision of a simple, durable, and economic machine capable of being readily transported from place to place and operated without an inking-ribbon and to provide adjustable inking devices capable of supplying two or more colors of ink, together with a wiping-section, any portion of which pads may be quickly brought into position for use.

**GAGE FOR HAT-SEWING MACHINES.**—W. JASPER, New York, N. Y. The present application is a continuation of Mr. Jasper's pending application for sewing-machine attachments formerly filed. It relates to gage devices adapted especially to machines for sewing together the straw bands of which straw hats are formed and also to sewing cords, tapes, and other trimmings on hats of any sort, either straw or felt. The prime object is to construct the gage so that it may have a wide variety of uses and may by simple attachments be employed for various uses.

**PULVERIZING-MILL.**—J. H. DAVIS, Glens Falls, N. Y. In this patent the invention pertains to that class of mills known as "chasing-mills," and has for its object the improvement of the means for regulating the degree of fineness to which the material acted upon is to be reduced and also to practically eliminate the objectionable dust rising from such mills during their operation.

Prime Movers and Their Accessories.

**EXPANSION-TURBINE.**—M. NEUMAYER, East Orange, N. J. The aim in this improvement is to provide an expansion-turbine arranged to drive a rotary piston by impact both under initial pressure, and by the expansive force of the motor agent, thus utilizing the motive agent to the fullest advantage without requiring complicated mechanical means in the construction of the turbine.

**ROTARY ENGINE.**—P. BARTOLETTI, Brownsville, Pa. In carrying out the invention in the present patent Mr. Bartoletti has in view as an object the provision of a new and improved rotary engine which is simple and durable in construction, very effective in operation, and arranged to utilize the steam expansively to the fullest advantage.

**LUBRICATING DEVICE.**—R. S. MEARS, Humansville, Mo. In this case the improvement has reference to a lubricating device which is capable of general use; but it is especially adapted for oiling the valves and cylinders of locomotives and can be applied to any style of engine where it is desired to oil against steam-pressure. The inventor's principal objects are to remedy numerous defects in existing types of lubricating devices.

**ROTARY ENGINE.**—P. F. GUTHRIE, Nutley, N. J. In this instance the object of the inventor is the provision of a new and improved rotary engine which is simple and durable in construction, very effective in operation, and arranged to permit convenient reversing and to utilize the motive agent to the fullest advantage.

Pertaining to Vehicles.

**ATTACHING-COLLAR FOR PNEUMATIC TIRES.**—J. C. N. FOUILLOY, Paris, France. In this patent the inventor has for his object an attaching-collar for fixing around the pneumatic tires of automobiles the leather bands, so called "non-slipping protecting devices," of any system not cemented on the pneumatic tires.

**VEHICLE-WHEEL.**—T. APPLETON, New York, N. Y. The purpose of the improvement is to provide a cushion-tire for vehicle-wheels, particularly wheels used upon automobiles, and to so construct the tire that it will be gradually compressed under the weight of the vehicle where it engages with the ground and gradually expanded throughout the remaining portion of its surface, providing for a minimum of shock while passing over uneven ground and a maximum of elasticity.

**LUBRICATOR.**—H. M. LOFTON, Atlanta, Ga. By this invention Mr. Lofton seeks to provide, in connection with a shaft having inner and outer bearings and a sleeve encircling said shaft between the bearings whereby to retain such oil as may pass from the inner to the outer bearings along the shaft, a return-channel through which the oil which may from time to time be fed to the outer bearing may be returned to the inner bearing. It is especially designed for use in connection with the transmission-gear of an automobile.

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. 7403.**—For manufacturers of up-to-date machinery and apparatus for a canning factory.

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

**Inquiry No. 7404.**—For manufacturers of safety matches, i. e., those which have a specially prepared grinding surface.

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

**Inquiry No. 7405.**—Wanted, case-hardened steel or other metal rollers, 24, 30 and 40 inches long, 1 1/4 or 1 3/4 inches outside diameter, surface to be perfectly true and smooth longitudinally and circumferentially; walls 1/4 inch thick, or less.

Drying Machinery and Presses. Biles, Louisville, Ky.

**Inquiry No. 7406.**—For manufacturers of machines and appliances for a quarry.

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

**Inquiry No. 7407.**—For manufacturers of electrical process for smelting iron.

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

**Inquiry No. 7408.**—For manufacturers of small combination locks.

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

**Inquiry No. 7409.**—For parties making or selling 1/8 or 3/16 inch flexible wire rope.

I sell patents. To buy or having one to sell, write Chas. A. Scott, 719 Mutual Life Building, Buffalo, N. Y.

**Inquiry No. 7410.**—For manufacturers of marine gasoline engine of about 1 1/2 h. p., an who would be willing to sell the necessary castings and working drawings.

WANTED.—Patented specialties of merit, to manufacture and market. Power Specialty Co., Detroit, Mich.

**Inquiry No. 7411.**—For manufacturers of picker-drawing machines.

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

**Inquiry No. 7412.**—For dealers in aluminum and makers of aluminum goods.

EXPORT TRADE WANTED.—Agency for France of patented novelties and specialties. Henri Vilcoq, 458 Broadway, New York City.

**Inquiry No. 7413.**—For manufacturers of wireless telegraph apparatus.

WANTED.—Ideas regarding patentable device for water well paste or mucilage bottle. Address Adhesive, P. O. Box 73, New York.

**Inquiry No. 7414.**—For manufacturers of celluloid in sheets.

WANTED.—First-class draftsmen on Automobile Tools. Apply to Superintendent, Pope Manuf. Co., Hartford, Conn.

**Inquiry No. 7415.**—For manufacturers of machines for digging ditches for tile drains.

LATEST ADVERTISING NOVELTIES.—High-grade illustrating, designing and printing. Catalogues a Specialty. Smith & Berkeley, Holland Bldg., St. Louis, Mo.

**Inquiry No. 7416.**—For manufacturers of "Ransom Mixer" for concrete work; also "White's Improved Road Oiler" for hot or cold oil.

Mechanical Engineer would like to correspond with parties wishing improved labor-saving machinery or tools. A. E. Sanford, 5 Bowman St., Rochester, N. Y.

**Inquiry No. 7417.**—For manufacturers of hand circular saws.

FOR SALE.—A small manufacturing plant in operation, well equipped for manufacturing wrought specialties. Reason for selling, other interests. Address Box 1163, Hartford, Conn.

**Inquiry No. 7418.**—For manufacturers of thin woods and veneers for scroll work; also imported hard woods.

Mechanical devices of brass, aluminum, and kindred metals manufactured for inventors and patentees, and marketed on royalty, when desired. Imperial Brass Mfg. Co., 241 So. Jefferson St., Chicago, Ill.

**Inquiry No. 7419.**—For manufacturers of machines for making pins, needles, pencils, nails, hinges, screws, etc.

Manufacturers of patent articles, dies, metal stamping, screw machine work, hardware specialties, wood fiber machinery and tools. Quadriga Manufacturing Company, 15 South Canal Street, Chicago.

**Inquiry No. 7420.**—For manufacturers of non-usable bottles.

Absolute privacy for inventors and experimenting. A well-equipped private laboratory can be rented on moderate terms from the Electrical Testing Laboratories, 548 East 80th St., New York. Write to-day.

**Inquiry No. 7421.**—For manufacturers of machines that will crush Sea Island cottonseed; also manufacturers of traction engines.

Manufacturers of all kinds sheet metal goods. Vending, gum and chocolate, matches, cigars and cigarettes, amusement machines, made of pressed steel. Send samples. N. Y. Die and Model Works, 608 Pearl St., N. Y.

**Inquiry No. 7422.**—For manufacturers of wood-cutting machines.

WANTED.—An A1 foreman to take charge of machine shop. Manufacturer of gas and gasoline engines and accessories. Address with references, Foreman, Box 773, N. Y.

**Inquiry No. 7423.**—For manufacturers of supplies used in lapidary work.

NOTICE.—New Tool Holder for Painters and Decorators. For sale or lease. Appertains to paint manufacturers as advertising novelty. Of interest to hardware men, etc. For particulars address E. H. Purdy, Box No. 45, West Somers, Westchester Co., N. Y.

**Inquiry No. 7424.**—For manufacturers of fire-proof fabrics.

WANTED.—An up-to-date Foreman in a Machine Shop doing general work. A person with some knowledge of paper-making machinery preferred. State age, experience and references. Machinist, Box 773, N. Y.

**Inquiry No. 7425.**—For manufacturers who use several pieces of white horsehide and sheepskin.

WANTED.—A thoroughly competent millwright, one who is able to line up heavy shafting, turbine wheels and other machinery in Power Plant and Grist Mill. Must be a sober, steady man. Wages, \$60 per month and house rent free. House is a good two story, eight-room brick, with good garden. Lancaster Electric Light, Heat and Power Co., Lancaster Pa.