

## RECENTLY PATENTED INVENTIONS.

## Agricultural Implements.

**SEPARATOR.**—BENJAMIN B. NEWMAN, Tampa, Fla. It is well known that when the shell is removed peanuts are still enveloped by a brown skin or husk. The present invention provides a machine for the removal of this skin. A rubber-faced roller working against a breast serves to loosen the husks. Below the roller a shaking-screen is arranged, over the left-hand side of which the peanuts with the hulls removed are discharged into a chute, and thence delivered to any suitable receptacle. The hulls are blown out by an air blast.

**SEED-PLANTER.**—MARTIN EVERHART, Austin, Texas. The seed-planter is designed particularly for planting corn. The principal feature resides in the measuring and dropping devices, which comprise a wheel mounted on the frame of the planter and having its periphery running on the ground. The hub and spokes of the wheel are hollow, and each of the hollow spokes communicates at its inner end with the interior of the hub through the medium of a box which contains devices for measuring and uniformly delivering the grain to the hollow spokes, through which it is dropped into the earth.

**DRAFT-EQUALIZER.**—ARTHUR A. HAMILTON, Ocheyedan, Iowa. The draft-equalizer is especially adapted for use with gang-plows, and is capable of effective work at either the right or left-hand side of the gangs. One horse will walk in the furrow and four horses on the stubble, each horse being compelled to do an equal amount of work.

## Electrical Apparatus.

**SWITCH FOR ELECTRIC CONDUCTORS.**—THEODORE B. SHAFFER, Westmoor, Pa. This improved switch for suspended electrical conductors insures the proper passage of the trolley from the siding to the main line. The construction comprises a main line rib, a siding rib, terminating at its inner end opposite the main line rib, and a trolley-supporting surface extending beyond the inner extremity of the siding rib.

## Apparatus for Special Purposes.

**FIRE-EXTINGUISHING APPARATUS.**—ALEXANDER LOGAN, North Sydney, Nova Scotia, Can. Mr. Logan has provided a system of perforated pipes having valves arranged to be opened by weights or other pressures when released by the burning away of supporting cords or cables. The invention is characterized by its simplicity and apparent efficiency.

**EXERCISER.**—WILLIAM W. SLOAN, JR., Buffalo, N. Y. The exercising device is designed for developing the muscles of the wrists and arms, and consists, briefly stated, in two hand-blocks connected to turn relatively to each other. A friction device bears between the blocks, so that by relatively turning them the various muscles of the arms and wrists are brought into play and thereby developed.

**OPERATING-TABLE.**—ALBERT TAUBERT and RICHARD KNY, Manhattan, New York city. The operating-table is constructed in three sections—two end sections and an intermediate section. Each section can be independently adjusted; and the sections can be so locked together that they can be collectively adjusted. These various adjustments are effected expeditiously.

## Tools.

**CUTTER-HEAD.**—CHARLES H. WEST, Estabatchle, Miss. The inventor has devised an arrangement by which the cutters or bits are held securely and in a position properly to form the tongue without splitting or tearing the wood. The essential feature of the invention is to be found in two sets of bits, the members of each set of which are arranged in peripheral alignment. The two sets work together on each side of the tongue of the plank. All the parts are capable of easy access; and the device can be taken apart for repair or adjustment.

**TUBE CUTTER AND EXPANDER.**—WILLIAM CANTON, Paris, Ill. This boiler-tube-cutter comprises few parts, all of which are readily accessible and work without the use of springs. It has been the inventor's prime purpose to reduce friction as much as possible. The body of the tool is inserted in the tube so that a collar abuts against the head of the boiler. By turning a nut the tool-carrier is forced outwardly against the tube. When the cutter has cut through the tube, the entire tool is rotated. This causes the cutter to revolve along the inner surface of the tube and to sever the tube. Rollers bear against the tube on the side opposite the cutter and materially reduce the friction.

## Mechanical Devices.

**LEADER-FORMING MACHINE.**—LAWRENCE A. MCCARTHY, Savannah, Ga. By means of this leader-pipe-forming machine, leaders can be rapidly formed from a flat sheet of tin or other metal up to the point of soldering the joint. The characteristic features of the invention are a mandrel, swinging dies for forming the opposite lap edges of the leader, means for swinging these dies in opposite directions, and devices for turning the leader-forming metal or sheet around the mandrel.

**FIREARM.**—KARL K. BJERKNES, Kaslo, B. C., Can. The subject of the invention is an

attachment for firearms which is connected with a lever in the magazine-chamber and which is so related to the muzzle of the barrel that, through the expansion of the gases escaping from the barrel, the device will automatically operate the lever in question when the charge is fired. The empty shell is thereby extracted, a new shell brought in position for firing, and the hammer carried to a firing position, all without the assistance of the marksman.

**ROLLER-MILL FOR CRUSHING AND GRINDING.**—JOHANNES C. WEGERIE, 45 Woburn Place, London, England. The mill consists essentially of internal and external revolving grinding-surfaces, having their axes of revolution oblique the one to the other and in different planes, so that the planes of revolution will be oblique and a disruptive as well as a crushing action produced. The one surface is formed by the interior of a revolving ring and the other by the exterior of a revolving roller working within the ring.

## Vehicle Accessories.

**STORM-FRONT FOR BUGGIES.**—ARTHUR A. PRALL, Dayton, Iowa. Mr. Prall has improved the construction of storm-fronts which he patented last year. The improvement is such that the device is rendered more compact, strong, and light. The improved storm-front is made in sections separable, one from the other. These sections can be stored away in the body of the buggy or at the dash. The upper section can be dropped down so as to hang close to the dash, the lower section remaining connected with the body of the vehicle. A window is placed in the upper section, which window opens in an upward direction and is automatically carried to the upper position when released from engagement with its latch.

**ELASTIC TIRE.**—WILLIAM F. WILLIAMS, 17 and 18 Great Pulteney Street, London, W., England. The tire is of D-section and adapted to be secured to the wheel-rim by a band passing through the bore of the tire. The invention has for its object to facilitate the longitudinal compression of the tire, particularly the base portion thereof, when lapping it around the wheel-rim, so that the tread of the tire will not be put in tension. This object is obtained by forming the walls of the bore of the tire with grooves extending circumferentially of the bore, the grooves being either helical convolutions or separate grooves, each lying in a transverse plane.

**ELASTIC TIRE.**—WILLIAM F. WILLIAMS, 17 and 18 Great Pulteney Street, London, W., England. The invention relates to the same class of tires as that referred to in the previous notice. A cord is embedded in the rubber, the cord being either in the form of a continuous helix or an independent convolution extending around the bore of the tire. With the cord a reinforcing strip of open-meshed fabric is combined, which fabric bridges the intervals between the cord convolutions when spaced as described, and serves as a guide for insuring uniformity of spacing in winding.

## Fasteners, Hinges, etc.

**FRICITION-HINGE.**—VALENTINE C. LUPPERT, South Williamsport, Penn. The friction-hinge is of that class particularly adapted for supporting mirrors, swinging screens, transoms and the like. The pintle is attached to the swinging frame. The friction-hinge or holder consists of a spring plate or leaf having a transverse corrugation and a slot extending on opposite sides thereof, and a smaller leaf adapted for insertion in the slot and engagement at the ends thereof. The plates apply elastic pressure to the pintle, which is held between them.

**COMBINATION-LOCK.**—WILLIAM E. H. MORSE and OLIVER H. BEMIS, Algona, Iowa. The invention has for its object to provide a new and improved combination door-lock arranged to permit the owner readily to set the outside knob to a desired combination in order to prevent the opening of the door. The combination can be rendered ineffective whenever it is desired to use the door-lock as an ordinary lock. The device can likewise be used for sounding an electric alarm on the door-bell.

**SHUTTER-BLIND FASTENER.**—JULES D'ECHAUX, Gibson, La. The inventor has devised a contrivance for holding the slats of window-shutters at any adjustment desired. A disk or plate of peculiar construction is fastened to one of the slats through the medium of flanges. The disk works with a spring-bolt mounted on the framing of the shutter.

**SASH-LOCK.**—JOHN P. GERAGHTY, Jersey City, N. J. The invention relates to window and door buttons; and its object is to provide a new and improved sash-lock which is readily applied and arranged automatically to lock the closed sashes in order to prevent burglars from opening the lock on the outside of the window. The sashes can be drawn securely together to prevent rattling.

## Miscellaneous Inventions.

**HAIR-BRUSH.**—EMILE BICK, 107 Gold Street, Buffalo, N. Y. The invention is a hair-brush provided with a passage or socket for holding a comb. A circular mirror is secured on the back of the brush.

**FLYTRAP.**—JAMES MANNING, Marathon, Texas. A simple construction has been devised

by which the flies are trapped and caged and then disposed of. The trap is arranged for adjustment beneath a window-sash or beneath a fly-screen. The flies are attracted, pass into the trapping-chamber and then into the cage.

**TENT.**—THADDEUS D. MCCALL, 7 Monroe Street, Chicago, Ill. Mr. McCall has devised an improved portable floor tent designed for the use of one or two persons. The tent is of such small proportions and light weight as to be easily carried as a part of the bodily outfit and especially adapted to the needs of the hunter, prospector, civil engineer, or soldier.

**ROLLER-SKATE.**—PAUL JASSMANN, Brooklyn, New York city. The roller-skate is of that class in which a foot-rest is geared with one of the wheels and is moved downward by the weight of the skater and upward by a spring. The skate is easily attached to the foot and is arranged to transmit the downward motion of the foot-rest to one of the wheels in order to attain a high rate of propelling speed.

**TRAHLACTOR.**—WILLIAM H. MARTIN, Manhattan, New York city. This breast-pump is characterized by the efficiency in drawing the milk from the glands; absence of mechanical irritation during use; and the fact that mechanical construction is such that the parts can be separated, thoroughly cleaned, and reassembled, without difficulty. This is extremely important, as the instrument can be made perfectly antiseptic before use, thereby obviating any possibility of the contraction of disease.

**CALENDAR.**—HERMAN F. RUEGER, Brooklyn, New York city. This calendar is simple, and is arranged to permit the ready change of the dates for each month, the date of the month and the day of the week being very distinctly indicated.

**SCREEN.**—ALBERT TAUBERT, Manhattan, New York city. The purpose of the invention is to provide a simple, strong and light screen to which any material capable of folding is attached. The frame can be conveniently closed when not in use or enlarged horizontally. To secure this end lazy-tongs are used to connect the uprights of the screen.

**CANE-UMBRELLA.**—GRACE A. GEIGER, Brooklyn, New York city. The patent describes a case for covering umbrellas when closed. The usual leather case is neatly and effectively secured in place so as to give the umbrella the appearance of a cane.

**LEAD FOR SETTING STAINED GLASS.**—JACOB PFLIEGING, Bronx, New York city. The lead is provided with stiffening devices at each side of the heart whereby the lead is prevented from bending under ordinary strains. A novel means is provided for connecting or joining the leads with one another.

**NECKWEAR-FASTENING.**—BERTHA J. KOEHLER, Brooklyn, New York city. The fastener is particularly adapted for the use of women to hold in position ribbons, bows and stocks. The fastener is attached to the inner side of the stock or other article of neckwear at the back and front of the neck and connected with a collar-button on the collar-band.

**LAMP-HANGER.**—CHARLES D. KEMMERER, Weissport, Pa. This simple hanger can be readily turned in any direction and held at any desired angle between that of the axial line with its base and at substantially right angles to its base, thus providing a device particularly adapted for use in barber-shops, dentists' offices, workshops, and the like.

**DUMPING-CAR.**—WILLIAM H. HOLMAN, Durango, Colo. A simple and effective dumping-trip and gate or gate lock combined has been secured. The latch for securing the gate is constructed so as to serve also as a car-handle. The main shaft, which also operates as a detent, is arranged for operation to release the body of the truck and to release the latch, so that the latter can be adjusted out of engagement with the gate.

**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.

## NEW BOOKS, ETC.

**THE STORY OF THE AMERICA'S CUP. How It Was Won in Cowes in 1851 and How It Has Been Defended for Half a Century by the New York Yacht Club.** By Charles P. Tower. New York: The Rudder Publishing Company. 1901. 18mo. Pp. 156. Price 25 cents.

This opportune little work, from the pen of a yachtsman who for many years has been closely identified with yachting in Eastern waters, comes as a timely contribution to the literature of a subject which is just now of paramount interest. The comparative brevity of this booklet has rendered the work of the author one of discriminating selection, and he has succeeded admirably in including within its pages every event of vital interest in the half-century which it covers. The first chapter is devoted to a description of the contest of the "America" against an English fleet of schooners and cutters, in the memorable race around the Isle of Wight, in 1851. To every subsequent attempt on the part of the British yachtsmen to recover the Cup a separate chapter is devoted, in which the dimensions of each vessel are given and a description of the races sailed. This work is an excellent pocket compendium for the use of those who do not care for a more bulky and elaborate book.

## 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 &amp; CO.

- Marine Iron Works, Chicago. Catalogue free.
- Inquiry No. 1499.**—For parties to manufacture a special kind of horseshoe and toe calk.
- TURBINES.**—Lefell & Co. Springfield, Ohio, U. S. A.
- Inquiry No. 1500.**—For manufacturers of novelties.
- "U. S." Metal Polish. Indianapolis. Samples free.
- Inquiry No. 1501.**—For manufacturers of articles used by power machinery plants in Germany.
- WATER WHEELS.** Alcott & Co., Mt. Holly, N. J.
- Inquiry No. 1502.**—For manufacturers of coal-heading machines.
- Yankee Notions. Waterbury Button Co., Waterbury, Ct.
- Inquiry No. 1503.**—For manufacturers of labor-saving devices.
- Gasoline Lamps and Systems. Turner Brass Works, Chicago.
- Inquiry No. 1504.**—For a 15 h. p. traction gasoline or kerosene engine for use on a dry, level farm.
- "Perfect aluminium solder. Amer. Hdw. Mfg. Co., Ottawa, Ill."
- Inquiry No. 1505.**—For a company to put in water power plant including dams, turbines, dynamos, etc., in Arkansas.
- Handle & Spoke Mch. Ober Mfg. Co., 10 Bell St., Chagrin Falls, O.
- Inquiry No. 1506.**—For manufacturers of hand power roller presses for rolling pennies into different shapes, and pressing subjects or lettering on both sides.
- Sawmill machinery and outfits manufactured by the Lane Mfg. Co., Box 13, Montpelier, Vt.
- Inquiry No. 1507.**—For a machine for cutting, shredding or grinding straw.
- For Sheet Brass Stamping and small Castings, write Badger Brass Mfg. Co., Kenosha, Wis.
- Inquiry No. 1508.**—For manufacturers of compressors for charging the flasks for compressed air motors.
- Rigs that Run Hydrocarbon system. Write St. Louis Motor Carriage Co., St. Louis, Mo.
- Inquiry No. 1509.**—For manufacturers of wrought iron or steel tinning pots.
- Ten days' trial given on Daus' Tip Top Duplicator. Felix Daus Duplicator Co., 5 Hanover St., N. Y. city.
- Inquiry No. 1510.**—For manufacturers of nails.
- We make anything in sheet metal, any shape. Estimates free. Metal Stamping Co., Niagara Falls, N. Y.
- Inquiry No. 1511.**—For manufacturers of rubber weather strips.
- Kester Electric Mfg Co's, Self-fluxing solder saves labor, strong non-corrosive joints, without acid, Chicago, Ill.
- Inquiry No. 1512.**—For manufacturers of hydrogen gas balloons.
- FOR SALE.—Patent office reports, from 1853 to 1871, inclusive, bound in cloth. Address Patent, P. O. Box 773, New York City.
- Inquiry No. 1513.**—For makers of the largest and best hydraulic ram.
- Special and Automatic Machines built to drawings on contract. The Garvin Machine Co., 149 Varick, cor. Spring Streets, N. Y.
- Inquiry No. 1514.**—For parties to make a machine for the manufacture of carbon papers.
- Designers and builders of automatic and special machines of all kinds. Inventions perfected. The W. A. Wilson Machine Company, Rochester, N. Y.
- Inquiry No. 1515.**—For the manufacturers of an automatic postage stamp machine.
- The celebrated "Hornsby-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Refrigerating Machine Company. Foot of East 138th Street, New York.
- Inquiry No. 1516.**—For manufacturers of the most modern belt-stretching machinery.
- The best book for electricians and beginners in electricity is "Experimental Science," by Geo. M. Hopkins. By mail, \$4. Munn & Co., publishers, 361 Broadway, N. Y.
- Inquiry No. 1517.**—For manufacturers of stills for making wood alcohol.
- WANTED.—Parties to make cigar holder and pipe, with bone tip and amber mouthpiece screwing into tip with screw core. See patent 635,240. Address Pipe, Box 773, New York City.
- Inquiry No. 1518.**—For small aluminium castings and seamless aluminium 2-inch tubing.
- WANTED.—Men with moderate capital to take exclusive agency for sale of aluminium gas tips and gas novelties. Sample lot sent on receipt of 25 cents in stamps. Gas Tip and Self-lighter Co., 298 Broadway, New York.
- Inquiry No. 1519.**—For parties dealing in ¼-inch marbles perfectly round, in different colors.
- DESENISS & JACOBI, A. G., Hamburg, deep-well and pumping machinery manufacturers, are desirous to deal in modern pneumatic pumping systems, either for representation or acquiring inventor's rights. Heinrich Eisler, Hamburg, sub. B 565.
- Inquiry No. 1520.**—For machinery for making butchers' skewers.
- MECHANICAL SUPERINTENDENT WANTED.—Familiar with the manufacture of firearms on a large scale, possessing executive and mechanical ability. Address, stating age, experience and references, A. Box 2123 General Post Office, New York.
- Inquiry No. 1521.**—For manufacturers of machinery for cutting, splitting and bundling firewood.
- PATENT FOR SALE.—My Fastening Device is for sale to any shoe eyelet manufacturer at a reasonable price. Address Mr. Wenzel Cesak, 655 7th St., Milwaukee, Wis.
- Inquiry No. 1522.**—For manufacturers of small hot-air or gas engines from ½ to 1 horse power.
- FOR SALE.—Patent No. 676,385, dated June 11, 1901. Track-cleaning Attachment for Hand-cars. For copy of drawing and specifications, address August Hagg, P. O. Box 113, Eaton, Colo.
- Inquiry No. 1523.**—For machinery for handling pine needles and manufacturing pine needle fiber into various products.
- FOR SALE.—Steam engine and boiler, in good condition; 4 horse power, \$65. Address Quick Returns, 19 East Main St., Fort Wayne, Ind.
- Inquiry No. 1524.**—For manufacturers of perforating typewriter type for use on a Remington machine.