

RECENTLY PATENTED INVENTIONS.

Mechanical Marine Contrivances.

PROPELLER.—JOHN BARNETT, Hotel Irvine, Chicago, Ill. This new form of propeller-wheel is designed to secure the more efficient propulsion of the vessel and is to be used in a series so arranged that the discharge of water from one propeller does not interfere with the effective action of the next propeller in the rear.

Engineering Improvements.

ENGINE-VALVE.—CHARLES G. HOLMBERG, Woonsocket, So. Dak. The admission and exhaust of steam to and from the engine-cylinder are properly controlled and the desired cut-off is obtained by means of a valve, comprising a main portion and an auxiliary portion, the one controlled from the other.

Locks.

LOCK.—JASPER H. WILSON, Rockwood, Tenn. The invention provides a bag-fastening lock, and particularly a lock designed to secure the mouth of a mail-bag. The essential features of the construction are a case slotted in its side to receive an apertured tip-plate on the mail-bag strap; the case being securable on the mail-bag; a staple in the case, and a rockable latch bar.

COMBINATION-PADLOCK.—THOMAS W. HART, Ebenezzer, S. C. The inventor has devised a simple and practical combination padlock of small cost, which is easily operated, is not liable to get out of order, and cannot be opened by anyone ignorant of the combination.

Railway Contrivances.

RAILWAY SYSTEM.—JOHN W. JENKINS, 124 Front Street, New York city. The purpose of this invention is so to improve a railway system that passengers can enter and leave a car without stopping the movement of the train.

Vehicle Accessories.

WHEEL.—CHARLES RENARD, 33 Rue Cambon, Paris, France. The inventor has devised an improved wheel-felly provided with a detachable rim. The invention is to be used in connection with the fellys of vehicle-wheels having pneumatic tires.

MUD-GUARD FOR BICYCLES.—SPENCER MILLER, Rochester, N. Y. The object of the invention is to provide an attachable mud-guard for a bicycle, which is adapted for rocking adjustment so as to hold the guard securely in lowered position for service, or in an elevated position when not needed.

ELASTIC TIRE.—WILLIAM F. WILLIAMS, 17 and 18 Great Pulteney Street, Golden Square, London, Eng. The invention relates to the manufacture of elastic tires of the solid or cushion type. With the object of preventing lengthening or tearing of the tires of motor-car driving-wheels, Mr. Williams embeds in the thickness of the tire, cords or strands which are knotted at frequent intervals, so as to obtain a number of reinforcing points of abutment or resistance to tensional strain.

VEHICLE-SPINDLE.—JOSEPH DARLING, Chicora, Pa. Mr. Darling has invented a device for securing nuts upon the outer ends of spindles of vehicle-axes whereby the nuts are

prevented from accidentally turning off and from being turned too tightly upon the spindle. The nuts, moreover, can be secured in any desired adjustment upon the spindle.

Miscellaneous Inventions.

BUCKSAW.—CHARLES T. REDFIELD, Glenhaven, N. Y. The present invention, an improvement upon a similar device patented by Mr. Redfield, relates to the means for connecting the continuous brace-bar, which overlies the arch bar, with the end-bars of the saw-frame.

VETERINARY INSTRUMENT.—ABRAHAM VAN ROEKEL, Sioux Center, Iowa. The invention comprises a number of peculiarly-arranged finger-like rods adapted to be introduced into the vagina of an animal and to lie around the muzzle of the fetus. One of these rods carries a prong having a limited movement, and a cord is passed around the ends of the rods, so that when the muzzle of the fetus is properly inclosed by drawing on the cord the rods are engaged firmly therewith and the prong is caused to enter the skin of the fetus.

FISHING-REEL.—JAMES H. SMITH, Salisbury Mills, N. Y. The prime object of the invention is to provide a device which will give the fisherman a signal the instant that the hook has been taken by a fish. Combined with a frame is a reel, a bell, and a spring-sustained clapper arranged to turn simultaneously with the wheel.

EGG-POACHER.—PETER C. QUAKENBUSH and CHARLES F. CARLSON, Paterson, N. J. The egg-poacher comprises a frame to which a cup is secured. A movable bottom, consisting of sections hinged to the cup at opposite sides, is provided with outward extensions. A slide is carried by the frame. Links, each having one end secured to the slide and the other end to the extension of a bottom section, complete the construction.

CLEANSING FILTER.—AUGUSTINE J. MADDEN, 187 Little Collins Street, Melbourne, Victoria, Australia. This invention has been devised to provide an efficient high-class filter so constructed that a simple action of the person turning on or off the cap (which takes the place of the ordinary draw-off cock on a water pipe) causes the filter automatically to cleanse and flush away the residue collected from time to time.

REGISTER.—EUGENE B. LOBACH, Denver, Colo. The register is arranged to control the admission of heated air into apartments. The register has a face or body portion and a case secured to the rear. A gate is held in the case, the case having its edges extended at the rear of the face.

GARMENT-FASTENER.—FANNY B. MATHEWSON, Manhattan, New York city. This invention relates to improvements in garment-fasteners of the hook-and-eye order. The object is to provide a fastener of simple construction that can be readily attached to a garment without the usual sewing. The device is provided with a loop section and a hook portion forming part of the loop section.

Designs.

BOARD.—GEORGE BARRETT, Victoria, B. C., Can. The design provides a novel form of board which is to be used as a covering or weather board on frame-houses. The leading feature consists of a body having an ogee curve on one face at one edge and a groove in its other face at its opposite edge.

BODY-BRACE.—PHILO B. SHELDON, Erie, Pa. The brace consists of vertically-extending strips laced together. To two of the strips shoulder-straps are fastened; and from others a waistband extends. Below the waistband is a stomach-pad laced to certain of the strips.

ABDOMINAL BANDAGE.—PHILO B. SHELDON, Erie, Pa. From the upper part of vertically-extending strips of equal length a waistband projects, and below this band at the front is a stomach-pad joined in strips by two pairs of straps, the lower pair of which are fastened to the strips at their lower ends and the upper pair of which are fastened to the strips near their upper ends.

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.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending October 29, 1901, AND EACH BEARING THAT DATE.

(See note at end of list about copies of these patents.)

Table listing inventions with patent numbers, including: Acoustical apparatus diaphragm, Air and gas engine, Air brake coupling, Air cooling apparatus, Air device for controlling the use of compressed air, Amusement machine, Animal trap, Aplary, Armature winding system, Atomizer, Automatic wrench, Automobile driving mechanism, Axle box, Axle box washer, Band forming apparatus, Bands, Battery, Bearing, Bestend, Bicycle luggage carrier, Bicycle attachment, Blast furnace, Block, Boat, Boiler, Boilers, Bottle attachment, Bottle, Bottle washing machine, Brake slack adjuster, Brakes, Brick truck, Brick veneering apparatus, Brine, Broiler, Burner, Button, Buttonhole casing, Cable road, Call circuit, Can cutter, Car awning, Car body, Car door, Car fender, Car fender, Car grain door, Car, high side gondola, Car releasing device, Carbureter, Card case card retainer, Carpet, Carpet fabric, Cart attachment, Case, Centrifugal machine, Ceramic ware, Chair, Check sales slip, Cheese paste, Chenille fabric, Chimney base, Chuck, Cigar container, Cigar making machine, Clamping device, Clasp, Closet bowl, Cloth cutting machine, Clover buncher, Clutch, Clutch, Clutch, Cock, Coat rack, Coffee pot, Coin controlled apparatus, Controller regulator, Conveyor, Conveyor, Cooking and drying apparatus, Corn husking, Coronet roller, Cotton picker, Cultivator, Cutter, Cutting tool, Cylinder wrench, Dampening device, Dental implement, Derrick, Detector bar apparatus, Digging machine, Disk or coin holder, Door check, Door check, Door, grain, Dowel connection, Draw bar, Drawing instrument, Drilling machine, Drilling machine, automatic, Drying apparatus, Dust guard, Dyeing machine, Dynamometer, Electric brake, Electric circuit switch, Electric cut out, Electric furnace, Electric generating systems, Electric lighting, Electric lighting apparatus, Electric switch, Electric distribution system, Electrical indicator, Electricity meter, Electrolytic decomposing apparatus, Electromagnetic spoils or coils, Elevator, Elevator, Elevator, Embroidering machine, Emery wheel dresser, End gate, Engine, Engine regulating mechanism, Engines, air and gas mixing and governing device for gas, Engines, sparking igniter for explosive, Evaporator.

Table listing inventions with patent numbers, including: Expandable frame, Fan, Feed water heater, Feed water heater and purifier, Feeder, automatic boiler, Feeder, boiler, Feeder, boiler, Feeding device, Fence and gate brace tightener, Fence, foldable, Fence stays, Fifth wheel, Files, sharpening worn out, Finger ring, Fire box, Fire extinguisher, Fire extinguishers, gage attachment for compressed air, Fireproof blind, Fish plate and rail chair, Flush tank, Food preparation and making same, Frame, Freezing apparatus, Fuel saving compound, Fumigating apparatus, Funnel holder, Furnace grate, Furnace top, blast, Furnace valve, regenerative, Furnace valve, regenerative, Furnaces, subheater for hot air, Gage, Gage, W. P. Moulton, Game or puzzle, Garment supporter, Gas and air mixer, Gas and oil separator, Gas burner, incandescent, Gas furnace, Gas generating and burning means, Gas generator, acetylene, Gas generator, acetylene, white & Harbaugh, Gas holder tank, Gas shut off and regulator, Gearing for transmission of power, Gear, compensating, Gearing for transmission of power, wheel, Glass machine, Glass or tiling supporting bar, Glove or dress fastener, Gluing or pasting machine, Gold from refractory ores, Gramophone, Grain dryer apparatus, Grain beater, Grain unloader and elevator, Grate, Gun barrel choke attachment, Hair retainer, Hame fastener, Hammer and riveter, Hand case, Hanger, Harness, E. R. Ross, Harness pad, Harvester, corn, Harvester, cotton, Harvester, onion, Harvester, etc., seat for, Hat mourning band, Heatlight, locomotive, Heating apparatus, fitting for steam, Dexter, Heating system, hot water, Hinge and door check, combined, Hog scraping machine, Hoisting apparatus safety device, Hook and eye, Horse, Horse catcher, Horse driving from a distance, device for, H. Grass, Hose supporter, Ice shaving machine, Incubator, G. R. & M. O. Adams, Incubator, L. P. Melster, Incubators or brooders, hot water or hot air heater for, Index for books, page, Insect catching machine, Insole fabric, women, Insole making machine, Insulators in place, screw driver for securing, Iron, Ironing table, Joint, Journal box and lid, Keyboard player, Bicycle and similar, Key-operating machines, automatic actuating mechanism for, Kiln, J. W. Le Gore, Knuckle, compensating emergency, Lamp, W. N. Rose, Lamp, N. Johnson, Lamp, desk or table, Lamp, electric arc, Lamp, electric glow, Lamp, electric glow, W. Nernst, Lamp, electric glow, W. Nernst, Lamp glowers, material for electric, W. Nernst, Lamp glowers, treating Nernst, M. W. Hanks, Lamp heaters, controlling system for electric, H. N. Potter, Lamps, ballast cut out for electric, Lamps, ballast device for electric glow, W. Nernst, Lamps, contact key for sockets of electric incandescent, G. H. Proctor, Lamps, heater cut out for electric, H. N. Potter, Land roller, Latch, J. C. Deggins, Lathe indicator, Lathes, center steading device for wood turning, O. D. Rhoads, Lavatory or bath, Leaf cutter, Leather, degreasing, Leather degreasing apparatus, Leather stretching device, Leather stretching machine clamp, Life preserver, Link, repair, Linoleum floor cloth, manufacture of, Linotype machine, Lintel block, Lock, F. W. Mix, Locking hook, automatic, Locomotive exhaust mechanism, Loom shedding motion, Loom warp tension mechanism, Magazine spring drill, Magnetic device for use in alternating current circuits, J. Pearson, Magneto electric generator, Mail bag receiving and delivering device, Match making machine, Measure, automatic liquid, Mechanical movement, Mechanical movement, Metal planing and shaping machine, Metal planing machine, Metals from metal bearing material, separating valuable, Milking stool and pail holder, combined, Mines, packing for drift, gallery, or other openings in, Muthhead.

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 "Our Edna," for shoes, L. Franc & Son..... 414
 "Pittsburg Souvenir Playing Cards," for play-
 ing cards, W. J. Gilmore & Co..... 413
 A printed copy of the specification and drawing
 of any patent in the foregoing list, or any patent
 in print issued since 1863, will be furnished from
 this office for 10 cents, provided the name and
 number of the patent desired and the date be
 given. Address Munn & Co., 361 Broadway, New
 York.
 Canadian patents may now be obtained by the in-
 ventors for any of the inventions named in the fore-
 going list. For terms and further particulars
 address Munn & Co., 361 Broadway, New York.

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. 1555.—For a small gasoline engine ½ h. p. with governor.
 TURBINES.—Lefel & Co. Springfield, Ohio, U. S. A.
 Inquiry No. 1556.—For manufacturers of gaso-
 line engines with tube ignition.
 "U. S." Metal Polish. Indianapolis. Samples free.
 Inquiry No. 1557.—For manufacturers of parts of
 gasoline engines.
 WATER WHEELS. Alcott & Co., Mt. Holly, N. J.
 Inquiry No. 1558.—For manufacturers of machin-
 ery for making glass insulators for telephone and tele-
 graph wires.
 Yankee Notions. Waterbury Button Co., Waterbury, Ct.
 Inquiry No. 1559.—For a ramie defibrating ma-
 chine.
 Gasoline Lamps and Systems. Turner Brass Works,
 Chicago.
 Inquiry No. 1560.—For manufacturers of electric
 signs.
 "Perfect aluminium solder. Amer. Hdw. Mfg. Co.,
 Ottawa, Ill."
 Inquiry No. 1561.—For parties to undertake the
 manufacture of a special automatic electric switch.
 Hoeing machine patent for sale. J. C. Hallmark,
 Georgetown, Tex.
 Inquiry No. 1562.—For manufacturers of flag-
 poles.
 Sawmill machinery and outfits manufactured by the
 Lane Mfg. Co., Box 13, Montpelier, Vt.
 Inquiry No. 1563.—For the manufacturers of the
 Gorin multitrough.
 For Sheet Brass Stamping and small Castings, write
 Badger Brass Mfg. Co., Kenosha, Wis.
 Inquiry No. 1564.—For parties to make a small
 tool with aluminium handle.
 Rigs that Run. Hydrocarbon system. Write St.
 Louis Motor Carriage Co., St. Louis, Mo.
 Inquiry No. 1565.—For transfers for use in out-
 side advertising.
 For metal articles, any kind, made any shape, write us.
 Metal Stamping Company, Niagara Falls, N. Y.
 Inquiry No. 1566.—For manufacturers of unique
 advertising novelties.
 Ten days trial given on Daus' Tip Top Duplicator.
 Felix Daus Duplicator Co., 5 Hanover St., N. Y. city.
 Inquiry No. 1567.—For up-to-date novelties.
 FOR SALE.—One ½ h. p. dynamo, one ¼ h. p. steam
 engine. R. A. Cribfield, 225 Third Street, Lincoln, Ill.
 Inquiry No. 1568.—For parties to make a quilting
 frame.
 Kester Electric Mfg Co's, Self-fluxing solder saves
 labor, strong non-corrosive joints, without acid, Chic-
 ago, Ill.
 Inquiry No. 1569.—For the manufacturers of the
 Lorentz sliding door hanger.
 Machine Work of every description. Jobbing and re-
 pairing. The Garvin Machine Co., 149 Varick, cor.
 Spring Sts., N. Y.

Notes & Queries

HINTS TO CORRESPONDENTS.

Names and Address must accompany all letters or no attention will be paid thereto. This is for our information and not for publication. References to former articles or answers should give date of paper and page or number of question. Inquiries not answered in reasonable time should be repeated; correspondents will bear in mind that some answers require not a little research, and though we endeavor to reply to all either by letter or in this department, each must take his turn. Buyers wishing to purchase any article not advertised in our columns will be furnished with addresses of houses manufacturing or carrying the same. Special Written Information on matters of personal rather than general interest cannot be expected without remuneration. Scientific American Supplements referred to may be had at the office. Price 10 cents each. Books referred to promptly supplied on receipt of price. Minerals sent for examination should be distinctly marked or labeled.

(8420) G. E. D. asks: Are the exciting balls of a wireless telegraph instrument immersed or rubbed with vaseline or other oil in the best modern methods? A. No. 2. Are choking coils used in the receivers of the instruments? A. No. 3. What would the height of the wires have to be for telegraphing the distance from one and one-half to two miles? A. We think from 20 to 30 feet will answer. 4. Is it practicable to use the instruments in a city with large buildings? A. Yes.

(8421) J. F. K. writes: In answer to F. S. (8241), issue of July 6, 1901, you say there is no destructive local action between the oxide filling and the grid of a storage battery. How is this to be explained, as there appear to be all things necessary for a galvanic cell—metallic contact between different conductors and simultaneously liquid contact between the same? This has been a difficulty of which I have not been able to get the solution. A. You will find the solution in Treadwell's "Storage Battery," page 120, price by mail \$1.75. Local action is avoided by avoiding contact between the conducting grid and the liquid electrolyte. This is accomplished by having an unbroken layer of peroxide upon the surface of the grid. If this is broken by any means, the battery deteriorates by local action.

(8422) A. M. asks: Please let me know what I would need to cause the sound of a clock to be transmitted a distance of, say, 150 feet by electricity. A. A simple device would consist of a telephone transmitter in front of the clock and a receiver at the point at which you would hear the ticking.

(8423) B. F. V. writes: Will it affect the quantity of gas consumed in a building whether the gas is turned on full at the meter and partly turned off at the burners, or partly turned off at the meter and fully turned on at the burners? Assuming the same number of jets burning and the same illuminating power in both cases. A. There is a very slight difference in the volume of gas due to the pressure at the meter and the proper pressure at the burner jet, which indicates a saving of gas by the meter measurement at the higher pressure or by regulating the pressure at the burners instead of at the meter.

(8424) J. W. D. asks: 1. How long does it take to decompose one pound acidified water with a current of 100 volts? A. The time required to decompose a pound of water depends upon the amount of electricity used. If 13½ amperes are used at 100 volts it will require one hour. From this the time for any other current can be found, or the current for any other time. Water is decomposed with any voltage greater than 1.47 volts. You will see then that 100 volts is very much higher than is necessary. 2. How much does it cost to run a dynamo of 1,000 volts annually, including all expenses? A. That depends upon how many amperes the dynamo is to furnish. A dynamo giving 1,000 volts might be lighting a small village, or it might be lighting a large section of your city. The cost would not be the same in both cases.

(8425) G. G. S. asks: Please inform me as to the amount of current used by (1) ½-inch solid carbons, (2) ½-inch soft core carbons, (3) ¾-inch solid carbons, (4) ¾-inch soft core carbons, when used in a stereopticon on 110-volt alternating current circuit. A. Stereopticons are usually run with ½-inch carbons. We have never used one with a larger carbon. The ½-inch carbon will carry as high as 25 amperes, but 10 to 15 amperes is the usual current for such a lamp. A ¾-inch carbon would carry 25-16ths as much current as a ½-inch carbon. The current would be proportional to the area of cross section of the carbon.

(8426) J. V. J. asks: 1. Why are open circuit telegraphs not used as often as closed circuits? A. The calling apparatus requires a closed circuit. 2. Can the duplex be worked on them? A. We do not know as to the possibility. Many things are possible which are not practicable. 3. Does an arc lamp when placed under water decompose? A. No. It heats the water. 4. Can a person get a shock from one carbon-zinc cell? A. Not from the battery alone. 5. Can an electric motor be driven both ways to advantage? A. Yes. Street car motors are reversed very often.

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.

FOR SALE OR ON ROYALTY.—Patent No. 683,747 issued October 1, 1901. A foot-warmer designed upon sanitary principles to relieve people suffering from cold feet. Useful in homes, hotels and hospitals. For specifications and full particulars address Frank Gotsche, 416 Hoffman Avenue, San Francisco, Cal.

FOR SALE.—Three bias cutting machines especially built and suitable for cutting velveteens and other fabrics on the bias. Each machine cuts a 4 yard length at a stroke; has self-sharpening knives and adjustable automatic feed; is perfectly balanced, requiring but little power to operate. All are in perfect condition; equipped with fast and loose driving pulleys, feed tables, etc. Can be operated at the rate of from 45 to 60 cuts per minute. Address E. H. B., Box 165, New York.

FORTUNE IN RUBBER CULTURE.—Agriculturist engineer owning valuable rubber lands, splendid situation, wants partner capitalist. Long experience preventing failure. No company squandering money. Comparatively small investment required. Write Martin, 54 W. 26th, N. Y.

WANTED.—A competent and energetic draughtsman about 33 to 35 years, up in modern methods, to take charge of small machine shop. Good pay to right man. One familiar with bleaching and dyeing machinery preferred. Address, giving full information and wages expected, B. B., No. 32 Kent St., Somerville, Mass.

(Continued on page 303)