

RECENTLY PATENTED INVENTIONS.

Electrical Devices.

**MICROPHONE.**—P. J. TARIEL, 19 Rue Kléber, Issy-les-Moulineaux, Seine, France. The invention relates to a microphone the particles of carbon of which are in the form of pellicles or films, thereby greatly increasing the sensitiveness of the apparatus. These are obtained by taking plates of coal of about from one-tenth and a half to two-tenths of a millimeter thick which are perfectly plane and smooth and which are then broken between the fingers. The so-obtained pellicles are passed through a special sieve in order that those of more than one millimeter of surface will remain in the sieve. Those are the only ones used. The use of these pellicles has very important technical advantages.

Of Interest to Farmers.

**CHECK-CONTROLLED MEASURING DEVICE.**—J. KRES, Gregor, Wis. The principal object of this invention is to provide means for measuring liquids so controlled by a check that upon placing a check of the desired size in the machine a certain number of pails or other measures of liquid may be drawn and that the machine may then be locked, so that no more can be drawn until it is unlocked by the insertion of another check. Checks may be made of different sizes for setting the machine to draw different numbers of measures of liquid. It is especially designed for the purpose of checking off milk.

**STUMP-BURNER.**—C. N. HUBBARD, Bee, Wash. The inventor has for his object the simplification of construction, reduction in cost, and increase in efficiency of operation. A further object is to provide a stump-burner by means of which a stump can be burned near other combustible objects without injuring the same even on a windy day.

Of General Interest.

**SIGHT-SETTING DEVICE.**—G. E. HUMBERT, New York, N. Y. In the present patent the improvement has reference to sights for rifles and other fire-arms; and the inventor's object is the provision of a new and improved sight-setting device arranged to enable the marksman to conveniently and accurately set the sight to exact range for fine shooting.

**POCKET-TRANSIT.**—W. D. VERSCHAYLE, Seattle, Wash. The device is for use by prospectors, mariners, and others. The horizontal magnetic bearing is quickly ascertained and also the vertical angle lying vertically between the line joining the horizon to the observer's eye and the line intersecting the observer's eye from a point above or below the horizon, both of the horizontal and vertical angles being observed and read at once in one operation and with great accuracy. To do this work generally requires two instruments, a prismatic compass and an Abney level, or with a Brunton transit it takes twice the time with lessening of accuracy.

**COLLAR-BUTTON FASTENER.**—B. Z. SMITH, Mountainhome, Idaho. In this case the button proper is provided with a hinged member adapted to be adjusted parallel to the button back or in line with the shank thereof, the latter position being necessary when the button is being attached to and detached from the garment. The fastener is adapted to be very easily inserted through several thicknesses of cloth as required in some instances.

**FOLDING BIT-BRACE.**—C. W. STITES, New York, N. Y. The object of the improvement is to provide details of construction for a bit-holding brace, such as used by wood-workers, which enable the body of the brace to be folded into a compact package and be quickly arranged for use when this is desired, a further object being to so construct the parts forming the brace that it will be very light, strong at the bends in the same, be adapted for a reliable connection of the members thereof where parts are hinged together, and as an entirety provide a neat, shapely device.

**COMBINED OIL-CAN AND FUNNEL.**—A. R. SEAVY, Riceville, Iowa. This funnel attachment for an oil-can is normally carried upon the body of the can near the spout and adapted for removal and reversal in position on the can, thus affording a capacious funnel disposed above and concentric with the can-opening, so that the oil may be freely poured into the can-body through the funnel and avoid loss of any oil, and, further, afford a drip-catching cup at the base of the can spout which will arrest overflow or drip that may run down the spout.

**COLLAR.**—B. B. LAWRENCE, New York, N. Y. The purpose of the inventor is to provide a construction of turn-down collars which will admit of the free movement of a band-tye when placed in position on the collar for tying and adjustment, the tie having practically the same freedom of movement upon a turn-down as upon a standing collar. He also provides means for ventilation, and for preventing suction where the tie passes between opposing faces of the members of the collar.

**BUTT-JOINT.**—F. C. KELSEY, Salt Lake City, Utah. This invention is a butt or end joint for strips or staves in pipe made of wooden staves bound together for conveying water and other liquids under pressure. The strips or staves are made in various lengths

and the pipe is put together so that the end joints are broken and do not come opposite each other. The special advantages claimed are that it makes a stronger and tighter pipe. It is also easier to construct the pipe with this joint, as it guides the ends of the staves into position and holds them as the pipe is constructed.

**DETACHABLE FILM-SPOOL RECEPTACLE FOR PLATE-HOLDERS.**—E. L. HALL, New York, N. Y. One purpose of the invention is the provision of a novel form of plate-holder for cameras and a film-spool receptacle for such holders, whereby a film can be used in connection with a plate-holder, which holder can be used the same as an ordinary holder, enabling focusing to be accomplished through the ground glass of the camera-box.

**REDUCING-VALVE.**—G. M. HILGER, Chicago, Ill. In the present patent the invention has for its object the provision of a new and improved reducing-valve which is simple and durable in construction, very effective and sensitive in operation, and arranged to prevent any jerking or jarring of the valve when it is in use.

**BREAST-PUMP.**—H. H. HALSTEAD, Poughkeepsie, N. Y. One purpose of this case is to provide a pump capable of being conveniently applied and operated by the person to whom the application is made and which will cling tenaciously to the breast during the drawing of the milk, but which may be almost instantly released, and, furthermore, an air-exhausting device which will not have a tendency to make the breast sore.

**HOOK-HANGER.**—J. L. CAVANAUGH, Canton, Ohio. The hanger is readily manipulated so as to hang a sign or card or remove it. It comprises an elongated body with extremities formed into hooks, a keeper-hook pivotally attached to the body near the upper part and uniting to form a threaded neck. A nut is mounted on the neck, a second keeper-hook is pivotally attached to the said body near the lower portion, and a collar is slidably mounted on the lower portion of the said body, to lock the second keeper-hook, the keeper-hooks uniting with the first hooks to form closed eyes.

**HOISTING-WINDLASS.**—A. CHUBB, JR., La Crosse, Wis. The simple construction of this device adapts it for use in various connections where a temporary hoisting apparatus must be quickly set up. While usable in connection with the raising of a coupler to its position, it could be as useful in connection with the removal of car-bolsters or any similar fittings at other points. Furthermore, it should have a wide usefulness by riggers and other handicraftsmen in order to carry out its general purpose.

**DOOR-WICKET.**—S. T. CORBITT, Enid, Oklahoma. Means are provided by this invention whereby a person within a room or house may observe people and things outside the door without opening the door; and the principal object of the invention is to provide for giving a very wide range of vision without making a large opening through which the interior of the room or building can be seen from without.

**LUMBER-LABEL.**—A. E. BAIRD, Nashville, Tenn. Mr. Baird's invention relates to descriptive labels to be attached to lumber piles, staves, shooks, and the like, in which it is necessary to show on the label various data with respect to the kind, quality, etc., of the lumber and to permit of readily changing these features so as to show varying amounts of material remaining in the pile. This label-holder can be instantly and firmly attached to any pile, without any nailing operation, and is a plainly-visible label thoroughly protected from rain and kindred influences and one upon which the data can be changed with ease and rapidity.

**TOILET INSTRUMENT.**—C. C. HARRIS, Orange, Mass. The instrument is of neat and compact form adapted to be carried in one's pocket and useful for the purpose of extracting substances from one's flesh. With the device a manicuring instrument is incorporated, the point of which is protected by surrounding parts, and it includes members especially adapted for removing deposits from the pores of the skin.

**AUTOMATIC ASH-DUMP.**—C. DORFFEL, Seattle, Wash. Mr. Dorffel's invention is in the nature of a device to be placed in an opening in the hearth of a fireplace or in the floor beneath the ash-pit of a stove, which device while closing the opening against upward draft of air will when it receives a definite charge of ashes and cinders from the grate or stove above automatically transfer the same to the cellar below the hearth or into a chute and subjacent receptacle outside of the house.

**TIN PACKING FOR MILK, CREAM, OR THE LIKE.**—N. F. H. DREYER, Aarhus, Jutland, Denmark. The tin packings are so constructed that the usual air-space inside the tin packing is avoided. By pasteurizing milk or cream in the tins, and subsequent soldering of the lid the cooling and corresponding contraction of the liquid forms an air space between the lid and liquid. When such a tin is opened after a railway journey or other shaking conveyance, a part of the cream is transformed to butter. In order to do this the invention avoids the air space.

**FOUNTAIN-PEN.**—D. F. GALLAGHER, New York, N. Y. In the present patent the object

of the inventor is to provide a new and improved fountain-pen which is simple and durable in construction, cheap to manufacture, and easily and conveniently filled whenever required without disconnecting the parts or soiling the user's hands.

Heating and Lighting.

**GENERATING OIL-BURNER.**—P. S. SPILLER, Austin, Texas. In the present invention the improvement has reference to apparatus by which steam is generated and petroleum or a hydrocarbon reduced to vaporous condition and mixed or combined with the steam and in highly-heated condition burned for heating, lighting, or other purposes in the arts.

Household Utilities.

**MATRESS FRAME OR SUPPORT.**—A. MARDIS, Sylvia, Kan. The object in the present invention is the provision of a new and improved mattress frame or support for convenient attachment to an iron or wooden bedstead and arranged to allow taking up all slack in the mattress to give the desired tension to the wires.

**WINDOW-SHADE.**—M. L. HANSEN, San Francisco, Cal. The invention relates to means for screening the transparent glazing of a window from sunlight, and also to protect the window from felonious entrance, and the object is to provide a simple and conveniently operated device, so as to adapt the shade to screen more or less of the window, be secured at any point of adjustment for the screen, or be elevated so as to permit sunlight to enter the lower half of the window-sash, a further object being to provide a shade, strong, of ornamental form, fireproof, and that will freely admit air if open and at the same time prevent entrance of a burglar.

**WARMER FOR DISHES OR THE LIKE.**—N. F. BONIFACE, New York, N. Y. The object of this invention which relates to kitchen and table articles is to provide a new and improved warmer for dishes and the like which is simple and durable in construction and arranged to contain and burn the fuel with a view to warm the dishes or like articles and keep the same warm for a long time without requiring recharging of the warmer with fuel.

Machines and Mechanical Devices.

**BRICK-MACHINE.**—H. B. FISHER, New Orleans, La. The invention pertains to improvements in machines for forming brick of concrete, the object being to provide, in connection with a mold, a simple means for giving a polished or smooth surface to the face of the brick. Another object is to provide means for removing the formed wet brick from the mold without danger of breaking or defacing the brick.

**CONTROLLING MECHANISM.**—F. B. ESTES, Boise, Idaho. In this instance the improvement relates to controlling mechanisms, and particularly to those adapted for regulating the power supplied by windmills to such apparatus as pumps. Its principal objects are to provide means for maintaining a substantially constant output of the driven apparatus irrespective of the speed of rotation of the windmill.

**DRIER AND SEPARATOR.**—J. WATERHOUSE, New York, N. Y. The invention relates to improvements in machines for drying sand, detritus, or earthy matter containing precious metals or gem stones; and the object is to provide a machine that shall be simple in construction and rapid and effective in operation by the use of dry air for absorbing and carrying away the moisture and when sufficiently dry carrying away the sand and dust contained in the material operated on.

**POWER-TRANSMITTING SYSTEM.**—A. N. OLSON, Cambridge, Minn. The objects of this invention are to provide a system to take the place of spur and bevel gears in automobiles and all kinds of machinery. Further objects are to provide means for reversing and changing speed, and to do away with a large amount of friction on the journals, and to provide for the easy and efficient operation of devices of this character.

Pertaining to Vehicles.

**ROLLER-BEARING.**—R. F. BOWER, Lima, Ohio. Mr. Bower's invention is an improvement in roller-bearings, and especially in such bearings designed for use on vehicle-wheels. In operation the end balls, operating in the raceways provided by the grooves, prevent the rollers from getting out of alignment when one roller is smaller than another.

**HARNESS ATTACHMENT.**—A. S. RUDOLPH, Carmi, Ill. In the present construction of harness the shafts are held by straps which have been wound around them or through which the shafts have to be passed. Either of these operations consumes considerable time in harnessing of horses; and it is the principal object to provide means in this invention for holding shafts so arranged that the shafts can be attached to it by very simple operation, thus avoiding both manipulations mentioned above.

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 the paper.

Business and Personal Wants.

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- Inquiry No. 6920.**—For makers of soap-making machinery.
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- Inquiry No. 6921.**—For makers of electrically-driven rock drills.
- WANTED.—The patents or sole agency for Britain and France, of new machines and articles used in the Brewing and Allied Trades. Highest references given and required. State best terms with full particulars to "Wideawake," care of Streets Agency, 30 Cornhill, London, England.
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- WANTED.—A first-class Machine Shop Foreman; a man who is capable of producing work at the lowest possible cost. Must be a man of ideas and capable of hiring and handling men. Reliability first consideration. Steady position with opportunity to advance. Factory at Waterloo, Iowa. Address Manufacturer, Box 773, New York.
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- Inquiry No. 6924.**—For a machine or lathe for turning tapered stock for fishing rods.
- Inquiry No. 6925.**—For makers of or dealers in refrigerating machines.
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- Inquiry No. 6930.**—For manufacturers of bioscopes and kinoscopes.
- Inquiry No. 6931.**—For machines for making soda water, also for making ice.
- Inquiry No. 6932.**—For makers of unruled linen tablets, called "Old Flax Linen."
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