

## RECENTLY PATENTED INVENTIONS.

## Of Interest to Farmers.

**LOADING DEVICE.**—J. P. FOSTER, London, Ohio. Although capable of many uses this device may be described as applied to the loading of corn on wagons. In many parts corn after husking is thrown on the ground and when the wagons come along to receive it has to be picked up by hand and thrown over the sides of the wagon. The object is to do away with this laborious, slow process. This is accomplished by means of an improved device designed to be applied to a wagon and to be used with sacks for holding corn or other material.

## Of General Interest.

**PUZZLE.**—M. N. STRICKLAND, Galveston, Texas. In this patent the invention pertains to improvements in puzzles of that class in which the rolling device is to be moved from the starting-point to a finishing-point, there being barriers or obstacles to the movement of the rolling device. The object is to provide a puzzle that will be difficult to solve and prove entertaining.

**QUOIN.**—W. V. CROCKETT, Corsicana, Texas. The invention relates to improvements in quoins for locking type-forms; and the object is to provide bearing-plates in connection with the wedges so connected that by the sliding movement of the wedges the plates will be spread apart without lengthwise movement, thus preventing any movement or displacement of the type, as sometimes happens when a wedge engages directly therewith.

**VENTILATOR FOR HATS, ETC.**—J. P. MARTIN, Ogden, Utah. In this instance the invention refers to ventilators, and more particularly to those adapted for application to hats or such structures as tents. Its principal objects are to provide such a device which while easy to apply will provide an effective and readily-controllable supply of fresh air and simultaneously remove that heated or vitiated.

**CABINET.**—E. KROM, New York, N. Y. More especially this invention relates to cabinets adapted for the storing of such cylindrical objects as phonograph records. These records being of wax are fragile and must be preserved with considerable care, and when many are to be provided for it becomes a matter of difficulty to do this and at the same time have them accessible for ready selection. This cabinet obviates these difficulties.

**SNATCH-BLOCK.**—J. E. GILCHRIST, South-bend, Wash. In this patent the invention has reference to snatch-blocks, and more particularly to those designed for use in logging. Its principal objects are to provide such a device which will be both light and strong and which will prevent the coacting cable from fouling or straining the shell of the block.

**SAP-SPOUT AND COVER.**—G. H. GRIMM, Rutland, Vt. The inventor provides a spout and cover for the bucket into which sap runs from the spout, the arrangement being such that the spout insures free flow of sap from the bore, and the cover rises sufficiently on tipping the bucket to allow of emptying it without removal from the supporting-hook and without the operator being required to manipulate the cover, and the cover protects contents against rain, snow, leaves, and the like, and is firmly supported from the spout and can be readily swung into open position to allow of inspection, and is not liable to be detached by strong gusts of wind.

**TABLE.**—F. G. DYER, Eastport, Maine. To accomplish using this table as a card or similar table or which may be so adjusted as to form the moving part of a self-waiting dining-table, the inventor provides a base and a top with a column removably connected to each, the top and base being capable of direct rotatable connection. With this equipment the table may be assembled in the usual manner and used as a table proper, or the column removed from base and top directly joined, whereupon base and top may be placed in center of dining-table to form a self-waiter therefor.

**SEAT-PROTECTOR FOR CHILDREN'S DRAWERS.**—DOROTHY B. CHAMBERLAIN, Fort D. A. Russell, Wyoming. The object of the invention is to provide an inexpensive shield of combined waterproof and warm fibrous material that is neat in appearance, readily attached upon or removed from the drawers, which affords perfect protection from dampness when sitting upon wet grass or ground, which will not interfere with other underwear or the outer dress, will remain invisible, and that at all times permits utmost freedom for the wearer's lower limbs.

**GAGE.**—H. S. GARDNER, Amsterdam, N. Y. In this patent the invention has reference to measuring instruments; and its object is the provision of a new and improved gage, more especially designed for conveniently and quickly determining the sizes of twist-drills and other objects, and to gage wires and the like.

**HAME-FASTENER.**—S. T. MARLETTE, Buffalo, N. Y. Mr. Marlette's invention belongs to that class of fasteners in which there are two hook members adapted to be connected to the loops at the lower ends of the hames and a lever connected to these hook members, so that when the lever is turned, it will draw the hook members and the ends of the hames

together, the lever being provided with a latch to hold the hook members in the locked position.

**VIOLIN.**—J. D. LOPPENTIE, Orange, Cal. In this patent the invention relates to stringed musical instruments—such as violins, cellos, and the like—having strings played on by the use of a bow. The object is to provide a violin arranged to insure the production of a full, harmonious tone when the strings are sounded by the bow.

## Hydraulics.

**HYDRAULIC PRESS.**—E. CROWE, Birch-holm, Bushey Wood, Totley Rise, Sheffield, England. This invention relates to means used for forging and other purposes—such as bending and testing armor-plates, flanging, and the like; and its objects are to enable valves controlling press action to be worked directly and promptly by hand without necessity of using auxiliary hydraulic or other fluid-pressure independent of that whereby the press-head itself is operated, and to enable the speed of descent of the head on to the work to be regulated at will and the head arrested at any point in descent. It is an improvement on the invention for which Mr. Crowe made previous application for Letters Patent.

## Machines and Mechanical Devices.

**COMPRESSOR.**—I. CARLIER, Denver, Col. Mr. Carlier's invention has reference to improvements in compressors and has particular application to a device of this character for compressing air through the agency of a liquid or fluid. One of the principal objects is to construct a compressor which shall be exceedingly simple in its construction, positive in its operation, and capable of withstanding a maximum amount of wear and tear.

**RIVET-MAKING MACHINE.**—C. W. RICHARDS, Cleveland, Ohio. In this patent the invention relates to a machine for automatically forming headed rivets from a continuous bar of iron, and one of the leading features of the invention lies in the provision of a stationary rivet-head die and a moving plunger which operates toward and from the die, carrying the rivet-blank to the die and withdrawing the rivet upon the completion of the formation thereof.

**ICE-CUTTING MACHINE.**—R. MOWERY, Hot Springs, Ark. Mr. Mowery's object is to provide an improved cutting-machine more especially designed for cutting blocks of ice into small pieces for use in hotels and other establishments and arranged to allow convenient and quick handling of the block during the cutting operation.

**MACHINE FOR MAKING CIGARETTE-TUBES.**—J. C. HANSEN-ELLEHAMMER, 99 Isted-gade, Copenhagen, Denmark. The inventor aims to avoid intermediate stages between the tube-making and tube-filling device, which is obtained by making the filling device movable upward or sidewise and capable of placing the tube simultaneously with the folding of the paper direct on to the outlet-spout of the filling device. Means are provided to leave the paper tube free on the spout. The tube is filled and removed, and the tube-making device is moved back to first position ready for the next cigarette. This arrangement may be used for tubes whose edges are connected by folding, as well as those stuck by an agglutinant.

**REVOLVING-HOOK SEWING-MACHINE.**—P. ANSCHUTZ, New York, N. Y. The object of the invention is to provide a revolving-hook sewing-machine which is simple and durable in construction, very effective in operation, and arranged to insure the formation of a uniform lock-stitch in a simple manner without danger of missing stitches.

**STREET-CLEANER.**—J. J. SMITH, Joliet, Ill. In this case the purpose is to provide a cleaner arranged to free the street of all dirt, litter, and the like, by the use of jets of water under pressure and directed in such manner as to wash the dirt, etc., into a curb or gutter, from which it can readily flow to the sewer or other place of discharge, or can be gathered in heaps, if desired.

**MULTIPLE-SPINDLE BORING-MACHINE.**—C. SEYMOUR, Defiance, Ohio. Mr. Seymour's object is to provide a multiple-spindle boring-machine arranged to permit a convenient adjustment of the boring-tools relative to the work, to bore a number of holes simultaneously and in a desired predetermined order, and to allow adjustment of the work-carrying table relative to the boring-tools to bore holes of a desired depth without varying the throw of the work-carrying table.

**PLAITING ATTACHMENT FOR SEWING-MACHINES.**—O. RICKENMANN, New York, N. Y. In carrying out the present improvement the inventor has in view the construction of an attachment which shall feed to the needle or sewing mechanism of the machine a strip or tape of suitable material and shall automatically form the same into plaits or ruffles, the present invention being especially designed for the making of plaits of the character commonly known as "box-plaits."

**DRIVING DEVICE FOR MUSIC-SHEETS.**—II. MEYER, New York, N. Y. In this patent the invention relates to automatic piano-players and like musical instruments; and its object is to provide a new and improved driving device for the music-sheet of a musical instrument arranged to insure a uniform even travel of the sheet in a very simple manner.

**TYPE-WRITING MACHINE.**—J. D. WHITE, 50 Clanricarde Gardens, London, England. The objects of Mr. White are to provide a machine in which as character after character is struck the printing passes along from left to right without corresponding lateral movement of the types or converse lateral movement of the paper, and in which, as the characters are printed in continuous succession, line after line is printed in sequence, the new line commencing after the previous one is completed, without special movement or attention of the operator. For this purpose he uses, combined with other mechanism, a type-cylinder and hammer-cylinder resembling those described in his former United States patent.

**MACHINE FOR MAKING VEGETABLE HAIR.**—W. HANSON, Fort Myers, Fla. Mr. Hanson's invention pertains to improvements in machines for making vegetable hair, the object being to provide a machine of this character by means of which the product may be rapidly formed from the fans of certain kinds of palm or palmetto which grow wild and in vast abundance in Florida and elsewhere.

**TRANSMITTING MECHANISM.**—J. J. KOOMAN, New York, N. Y. In this patent the improvement refers to a gearing which may be used for the mechanical transmission of power for all purposes. It is not limited in its application, as the invention may be applied to bicycles, engines, manual powers, and for any other purpose requiring the mechanical transmission of motion.

## Medical Devices.

**DENTAL DUCT APPLIANCE.**—F. P. ABZOTT, New York, N. Y. The inventor employs a cushion-pad to the interior of the mouth over the sublingual ducts, through which saliva is supplied, the pad associated with means for pressing it in place, so as to choke off the saliva flow. The pressure device employed contemplates a form of compress which has a rest to be applied to the jaw in a position to cooperate with the mouth-pad, and this compress also includes means by which the parts may be operated quickly and to secure neatness and accuracy, to the end that the appliance may be used without hurting the patient and quickly dismounted as the needs of service require.

**APPARATUS FOR HEATING AIR.**—F. T. BRENNER, Quincy, Ill. One of the principal objects of the invention is to provide an apparatus through the medium of which air may be readily, easily, and quickly heated and conducted in puffs or jets to the middle ear for the treatment of the auricular nerves. The apparatus is conveniently manipulated, occupies little space, and may be manufactured at little expense.

## Railways and Their Accessories.

**CAR-BUMPER.**—E. MORAN, Charleston, W. Va. The chief object in this case is to provide bumpers which will remain engaged when cars are moved from the rear and are passing around a curve, in which case under certain conditions—as, when a series of cars are loaded or train very long—a strong lateral pressure is applied and there is extreme danger of derailment of one or more cars. Each car at opposite ends is provided with bumpers of different construction, corresponding with bumpers of other cars, so that they are adapted to engage and lock.

**CAR-DUMP.**—E. MORAN, Charleston, W. Va. Mr. Moran's object is to provide a dump for mining-cars, same including track running from the mine at down grade to the dump proper and return-track from dump to mine also down grade. A car leaving a mine runs by gravity to the dump, contents are discharged and returns by gravity. The dump is so constructed that it is held normally elevated or at rearward inclination and depressed by loaded car, and when the latter's contents are discharged the dump is automatically raised, so that the car runs back off the same by gravity, and passes on to the return-track.

**METHOD OF AND MEANS FOR ENABLING BRAKES TO BE APPLIED TO OR RETRACTED FROM EITHER SIDE OF RAILWAY-VEHICLES.**—F. W. GASMETER, 2 Victoria Street, Petersburg, S. Australia, Australia. This invention relates to a method of and means for the application or retraction of independent or hand brakes from either side of a railway-vehicle, the especial object being to enable the application or retraction of the brakes to be accomplished without any risk by a person walking along on either side of the train.

**RETURN-TICKET-VOUCHER ENVELOP.**—C. J. SWANK, Oakland, Kan. Mr. Swank's invention relates particularly to improvements in envelopes for sealing vouchers designed as a means for securing the issue of a return-trip railway-ticket. The object of the improvement is to provide an envelop particularly adapted for incasing the voucher.

**MAIL-POUCH ATTACHMENT.**—W. D. MILLER, Saco, Mont. The purpose of the invention is to render more certain the catching of a mail-pouch by the arm of a moving train and the catching of the delivered pouch by the arm of the mail crane. With apparatus now ordinarily used, should the arm of the moving train strike the pouch at any point excepting approximately the middle thereof the arm fails to securely engage the pouch and the latter is frequently not caught by the train, and when thrown from the train it is jarred and contents

often injured. The invention overcomes these disadvantages.

## Pertaining to Vehicles.

**TILTING ATTACHMENT FOR VEHICLE-TOPS.**—D. W. LEONARD, near Iiurn, Wash. In this instance the object is to provide an attachment for the foldable tops of vehicles that may be readily applied thereto and which affords convenient and reliable means for instantly raising or lowering the foldable top, and when the top is quickly lowered cushions its descent so as to prevent jar and injury to the prop-braces, bows, or other top parts.

**TIRE-CLAMP.**—P. F. SCHAFER, Philadelphia, Pa. In this patent the invention consists in certain novel constructions and combinations of parts; and the object Mr. Schaffer has in view is to improve and simplify that particular type of tire-clamp used for securing pneumatic or solid tires on the felly of an ordinary vehicle-wheel.

## Designs.

**DESIGN FOR OIL-CLOTH.**—A. B. BUCHANAN, Peekskill, N. Y. Mr. Buchanan has invented four new original designs for oil-cloth. The patterns are richly varied and form a pleasing ornamental departure from the styles now in vogue.

**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. 5872.**—For manufacturers of steam turbine engines.

**Inquiry No. 5873.**—For manufacturers of sand blast machines such as are used in cleaning front of stone buildings.

**Inquiry No. 5874.**—For makers of buffers, or polishing wheels, for silverware.

**Inquiry No. 5875.**—For a machine for setting back the thread on wagon axles, when the wheel and shoulder have become worn and cause the wheel to rattle.

**Inquiry No. 5876.**—For the manufacturers of the "King" can opener with corkscrew.

**Inquiry No. 5877.**—For makers of luminous paint.

**Inquiry No. 5878.**—For the manufacturers of a dinner kettle that is heated by acetylene gas.

**Inquiry No. 5879.**—For the manufacturers of a flexible metallic mantle that is indestructible by the duty it has to perform when used for lighting purposes.