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MACHINES.—H. MANNING, 46 Grays Inn road, London, England. The mechanism is for lock-stitch sewing machines; and comprises a presser-foot for feeding, a lever comprising an open frame with cam-surfaces and at its upper end an arm carrying the foot, a shaft extending through the opening in the lever and carrying a cam-stud adapted to carry the lever's cam-surfaces a part of the shaft's revolution to move the lever in one direction to feed work, a spring secured at one end to the machine-frame and bearing at its other end on said lever to move it in the opposite direction when the stud is out of operative engagement with the lever. An adjustable stop consisting of a set-screw screwing through a lug on the machine frame is provided with a lock-nut, said lever having a padded projection for engaging the stop-screw.

CENTRIFUGAL APPARATUS FOR ELECTROLYTIC PURPOSES.—R. V. HEUSER, Erie, Pa. This apparatus is partly electrolytic and partly centrifugal, with the following advantages: Comparatively great output per unit of weight of apparatus employed and large percentage of product as compared with quantity of brine employed; greater current density at the cathode; use of mercury not required; process continuous and capable of carrying out without stopping apparatus from running; considerable labor saved; apparatus given comparatively large proportions and yet be under complete control of operator; anodes possess great durability; no colloidal member nor diaphragm is required.

LEMON-SQUEEZER.—P. McGRATH, Hibbing, Minn. This lemon-squeezer is of that type in which a plunger is forced into a cup to press the lemon. The invention provides various improvements intended to facilitate the adjustment of the parts, and insure the efficiency of the squeezer. A prominent feature consisting of a plunger is so mounted as to permit of being rotated when the lemon has been squeezed, whereby to more effectively press the juice and pulp from the fruit.

Prime Movers and Their Accessories.

TURBINE.—L. E. TRUESDEL, Kershaw, S. C. The underlying objects of the present improvement are to more effectively distribute the pressure of the steam or other elastic fluid around the periphery of the rotor of the turbine and also to improve the devices for governing the turbine action. The invention relates particularly to an improvement in radial-flow turbines, and it is of the same general class as that forming the subject of a prior patent granted to Mr. Truesdel.

Railways and Their Accessories.

LUBRICATING-BEARING FOR AXLE-JOURNALS.—T. V. MONROE and M. HALLINAN, Clinton, Iowa. The invention relates to an improvement in bearings for locomotive axle-journals, and has for its object the provision of a simple, cheap, and efficient device of the character mentioned and one which can be readily applied to the journal-boxes now in use. Oil and waste are placed within the upper cellar, and the waste projects through the open center of the bearing-plate against the axle journal. Waste is held in place and prevented from rolling by returned flanges.

RAILROAD SWITCH.—W. H. SAMMONS, North Bend, Ore. The object of this invention is to provide a three-way switch and means to be carried by a locomotive or street car for operating the switch therefrom. In order that the switch may be operated at will by an engineer or motorman, Mr. Sammons provides the front part of the locomotive or car in advance of its forward wheels with a rotatable shaft carrying switch-operating shoes. When necessary to operate the switches by hand switch-blocks are connected to a switch-stand by operating-rods.

Pertaining to Recreation.

CUE-TRIMMER.—A. B. Low, Denver, Col. This invention refers to improvements in devices for removing old glue from and trimming or leveling the ends of billiard or like cues preparatory to placing tips thereon, an object being to provide a trimmer of simple construction that will readily adjust itself to cues of varying sizes.

BASE-BALL-GAME APPARATUS.—J. B. LAUER, Summerville, S. C. In the present patent the invention relates to a base-ball-game apparatus having a multiple dial, read in connection with certain instructions, usually printed upon a slip. The game can be played by eighteen persons, representing two full sides, or it can be played by one person, using the men and operating them according to instructions on the slip.

STARTING GATE.—J. M. FLYNN, New York, N. Y. This gate or barrier is particularly adapted for starting horses on a race-track, an object being to provide a gate so constructed that before rising for the start it will have a movement for a desirable distance lengthwise of the track, whereby the field of horses may be caused to walk to an alignment at the starting-point, thus preventing long and tedious delays incident to starting.

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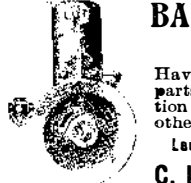


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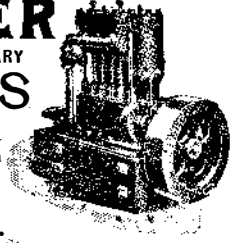


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