

to the main bracket utilized as a support for the curtain-pole or the pole adapted to sustain a portière or other heavy curtain, the auxiliary fixture being so made that it may be quickly and conveniently clamped upon the lower limit of the main bracket and secured in position and as expeditiously and readily removed.

REVOLVING SASH.—J. F. BLANCHARD, New York, N. Y. The invention relates to sashes having horizontal pivots to the side edges mainly for convenience and cleanliness. A main feature of the invention consists of auxiliary sash stiles formed of two longitudinal members; interposed springs between the members permit them to move toward and from each other, the springs yielding when the sash is turned on its pivots.

FLUSHING-TANK.—B. WALKER, JR., Austin, Texas. A purpose of this invention is to provide means whereby the water may be let out of the tank through an outlet-pipe having slip connection with a fixed flushing-pipe, which outlet-pipe is automatically closed by the upward action of the tank, and to provide an overflow-pipe in connection with the closing or valve device for the outlet-pipe whereby to regulate the amount of water to be received by the tank to obviate the pounding noise common to flushing-tanks due largely to siphons sucking air and water just as the siphonage is broken.

ADJUSTABLE STEP FOR BOOK-SHELVES.—T. S. MARTIN, Butte, Mont. In libraries, where tiers of shelves are of such height as to require a temporary foot-rest to enable one to reach upper shelves, it is desirable to have the foot-rest always in place and adapted for vertical adjustment. The object in this case is to provide details of construction which afford a simple and convenient step capable of vertical adjustment and clamped connection with upright portions of a tier of book-supporting shelves to enable one to readily reach books on high shelves.

WATER CLOSET.—F. W. BENDER and J. M. SCHLOTTER, New Rochelle, N. Y. The aim of the invention is to provide a new and improved water-closet, more especially designed for use on railroad-cars, marine vessels, etc., and arranged to prevent upward draft in the bowl and to allow of flushing the bowl to keep the closet at all times in proper sanitary condition.

DRAPERY-HOOK.—L. NACHMANN, New York, N. Y. The object the inventor has in view is the provision of an article adapted to sustain the upper edge portion of a curtain above or alongside of the curtain-pole, whereby a plurality of the hooks serve to support the curtain or portière in a way to conceal the pole and the rings without resorting to stiffening media for holding the curtain.

WINDOW-SASH.—A. C. GODDARD, Wood-cliff, N. J. In this instance the invention relates particularly to that class of sash adapted to slide vertically in the window-casing and to swing on horizontal pivots, so that the sash may be turned to any desired angle or completely reversed for convenience in washing both sides of the glass by a person within the room; and the object is to provide a mechanism permitting the movements with ease and without noise.

Machines and Mechanical Devices.

FEED-GEARING.—J. B. HART, Clarksburg, W. Va. In this case the invention is an improvement in the feed mechanism of sawmill-carriages, and has for an object, among others, to provide a compact arrangement of devices whereby motion is transmitted from the saw-mandrel to the feed shaft of axle and to support the intermediate friction-wheel and the other friction-wheel as well in the feed-controlling frame.

WEIGHT-REGISTERING WEIGHING-MACHINE.—H. POTTIN, 100 St. Lazare Street, and L. M. DELOGELIERE, 25 Caumartin Street, Paris, France. An important feature of this contrivance consists in that the "weighing-machine," properly so called, is independent of registering mechanism and takes up position of equipoise without moving any of the parts save its own levers and its cursor, which may be so arranged as to move without any sliding friction, so that the weighing-machine may be of the very greatest sensibility. As the registering mechanism is acted independently of the load to be weighed it may be of very compact construction and made to fulfill a plurality of functions without impairing sensibility or precision of apparatus.

CAROUSEL.—H. S. THOMAS, New York, N. Y. In this case the invention has reference to improvements in carousels or merry-go-rounds, an object being to provide a device of this character in which there is a variety of movements and so arranged as to not only give amusement to the riders, but also to produce a peculiar illusion to onlookers.

VENDING-MACHINE.—F. LYNES, Johnstown, N. Y. Mr. Lynes' object in this invention is to provide a machine adapted to contain articles of different values or grades, such as cigars, and operating to deliver an article from any desired one of the several receptacles upon the insertion of a coin, and directing the money by means of a novel mechanism and a controlling mechanism for the desired receptacle.

DECORTICATING-MACHINE.—P. P. FAURE, 21 Place du Champ de Foire, Limoges,

Haute-Vienne, France. This machine for decorticating ramie and other textile plants and leaves, comprises rolls between which stalks are fed, a beater-wheel for breaking stalks and separating fiber from coarse impurities, a shaker-frame for continuously agitating stalks while operated upon by the beater-wheel, a conveyor for removing fibers, drums arranged in parallel consecutive pairs and provided with intermeshing members, and means for rotating said pairs of drums at different speeds for scraping the fiber.

TYPE-WRITER.—J. ALEXANDER, New York, N. Y. The aim of this invention is the provision of a type-writing machine of comparatively simple construction so arranged that the type-carrying bars and operating-levers may be moved to printing operation by a very little pressure and upon release be quickly returned to their normal position.

WELL-DRILLING MACHINE.—H. H. WILBURN, North Yakima, Wash. The main object of this invention is the provision of a walking-beam with which a gasoline or steam engine may be successfully used for well-drilling, so shaped and hung as to cause the drilling-tool to move in direct perpendicular lines, thus preventing the rope or cable from rubbing against the sides of the well and wearing the rope or cable away.

PUMP-CONTROLLING APPARATUS.—G. V. ELLIS, New York, N. Y. The invention relates to an apparatus for automatically priming and starting pumps, particularly centrifugal pumps used for lifting sewage, bilge-water, and the like. By its means as the level of the water rises to a height requiring its discharge a liquid-pressure is opened to prime or fill the pump and simultaneously to throw the pump-controller, whereby to start the operation of the pump. The present invention represents a further adaptation of the automatic starting apparatus forming the subject of a former patent granted to Mr. Ellis.

PRESSURE ATTACHMENT FOR LUMBER-MATCHING MACHINES.—A. MULNE, Burk's Falls, Ontario, Canada. The principal object of the inventor is to provide a machine which shall have the pressure-arm carrying the blocks thereof so mounted on the machine that they may be independently operated—that is to say, if any uneven strip of material is being passed through the machine the blocks will at all times bear upon the under surfaces of the same in such manner that it will be held even to the machine, and thereby prevent any unevenness in the matching of the same.

POLISHING-MACHINE.—G. A. ENSIGN, Defiance, Ohio. More particularly this invention relates to polishing-machines using an endless sand or other polishing belt. The object is to provide a machine more especially designed for polishing wagon and carriage wheel spokes, neck-yokes, swingletrees, whiffletrees, handles, and other turned articles requiring high finish, the machine being arranged to automatically rotate the article when moving it in contact with the polishing-belt.

ORE-SLIMER.—I. F. MONELL, Boulder, Col. In this patent the invention has reference to certain improvements in ore-slimers, a particular object of Mr. Monell being the provision of an ore-slimer of novel construction and so arranged as to quickly and wholly separate fine gold from sand and slimes.

DUPLICATING-MACHINE.—C. H. COLTER, Decatur, Ind. In this patent the object of the invention is to provide a new and improved machine, more especially designed for use in banks and other financial institutions and business houses and arranged for making a complete record of all commercial papers received and sent out to permit of obtaining immediate reference at any future time to previous transactions or disposals of notes, drafts, checks, domestic and foreign exchange, etc.

Pertaining to Vehicles.

WAGON-TOP.—J. POHLIG, New Orleans, La. In this instance the invention relates particularly to improvements in side-curtain mechanism for wagon-tops, an object being to provide a simple and novel means for supporting the rolling side curtains, and a further object is to reduce the cost of construction by emitting certain elements shown in a former patent recently granted to Mr. Pohligh.

TRICYCLE.—C. J. MADONNA, New York, N. Y. The purpose of this improvement is to provide a race-horse tricycle, or a tricycle in which the body is in the form of a horse in two pivotally-connected parts, the rear being supported by two wheels on the same axle and the forward part by a single wheel which is a steering and at the same time a driving wheel, so that the head of the horse-like body always points in the direction of travel.

Photography.

PHOTOGRAPHIC SHUTTER-OPERATING MECHANISM.—J. H. HAMMER, Marquette, Mich. The purpose of the invention is to provide a trigger-operated cushion-controlled device for making and breaking circuit connection with an alarm device, a bulb operating device operated by the alarm device, the bulb acted upon being connected with the shutter of a camera, and means whereby the trigger may be brought into action manually or

through connections with an alarm clock or trap to effect closure of said circuit whereby the device may be set to provide for an automatic instantaneous photography of animals, birds or like moving objects.

FOCAL-PLANE SHUTTER.—W. F. FOLMER, New York, N. Y. In this patent the invention relates to an improvement in focal-plane shutters; and its special purpose is to provide a construction whereby the alignment of the shutters to each other and the alignment of the connection-tapers for the shutters with respect to the reeling device will be maintained under all conditions of adjustment and operation of the shutters.

STEREOSCOPIC APPARATUS.—V. S. L. OWEN, Adrian, Minn. The object of this improvement is to provide means for displaying stereoscopic views more effectively and in greater numbers than heretofore. The pictures may be instantaneously changed without the necessity of taking the eyes from the lenses, and therefore strain and discomfort heretofore entailed in removing one picture and replacing another are avoided. Also the pictures are effectively protected from abrasion and injury and the number which may be shown is practically limitless.

FILM-DEVELOPING MACHINE.—J. M. BRAINERD, Rome, N. Y. The primary object of the invention is to produce an improved structure adapted for use in the daylight for the purpose of developing the sensitized exposed surfaces of a film and for fixing the developed surfaces without resorting to a dark room, either portable or stationary, and without the possibility of the latent impressions becoming "light struck" during the process of treating the film.

Prime Movers and Their Accessories.

OIL-FEEDING DEVICE.—W. W. MATHEWS and C. BAUER, Eureka, Utah. In this patent the invention relates to a means for introducing a supply of lubricating-oil into steam on its way to the engine; and it consists in certain peculiar devices by which the flow of lubricant may be regulated at will and kept feeding at a steady rate.

MUFFLER.—I. B. ULLOM, Claysville, Pa. In operation, the exhaust is introduced through the main inlet-pipe and upon striking the projection in the T is divided and passes out through branch pipes into the casing, where it expands, losing force and impurities against the casing-head, striking upon the conical projection walls and being deflected all directions back toward the center of the casing, where the two portions meet and mix, whereby further deadening effect is secured. The exhaust rising through the outlet-pipe is deflected by the cone and directed against the ring, the latter's concavity tending to return it toward the casing. These impacts further deaden sound and it escapes through ring opening practically without noise.

HYDRAULIC AIR-COMPRESSOR.—J. H. ALEXANDER, Ymir, British Columbia, Canada. It is the object of this inventor's improvement to provide an apparatus for compressing air wherein a falling column of water is received by an air and water separating tank, which is connected with a hydraulic air-compression apparatus proper whose operation is such that the air compressed by it may be delivered to the same pipe through which the column of water falls, and thus be conveyed into the said separating-tank, whence it is conducted into a storage-tank.

LUBRICATOR.—O. E. GAY, Rockymount, N. C. The present invention has for an object to provide a novel construction whereby to minimize the danger of breaking the glass through which the feed is seen and to provide for renewing such glass in each sight device without stopping the operation of lubricating the other cylinder or the air-pump lubricating devices connecting with the same cup.

Railways and Their Accessories.

FEED-VALVE.—J. L. CURRAN, Rocklin, Cal. The prime object of Mr. Curran's invention is to provide a single feed-valve which may be made to serve the purpose of the plural valves now commonly employed. This end the inventor attains by constructing the valve with means facilitating its ready adjustment from one pressure to another, so that the single valve may be made to feed high or low pressure.

WINDOW-SCREEN.—H. F. CREITZBERG, Winston Salem, N. C. This invention relates particularly to screens for railway-car windows to shield passengers from cinders, dust, and the like while riding with windows open, an object being to provide a screen of simple construction that may be sold at a very small price, easily placed in a window or removed therefrom by a passenger, compactly folded or rolled when not in use, and conveniently carried in a valise or secured to the outer side thereof.

Designs.

DESIGN FOR A MEMBER FOR BAG-FRAMES.—C. FLAX, New York, N. Y. This inventor has designed an original and ornamental design for a member of a bag frame.

DESIGN FOR A PAPER-WEIGHT.—W. D. PAULSON and R. D. HEINBOCKEL, Manitou,

Col. The design of these inventors represents an original and ornamental paper-weight, square in form.

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