RECENTLY PATENTED INVENTIONS. Electrical Devices,

ELECTRIC SWITCH .-- L. R. BROWN, South Orange, N. J., and F. H. WENTWORTH, New York, N. Y. The principal objects of the invention are to provide means for making and breaking contact and leaving the various electrical connections of the device in such condition when not in use that no current will flow through them; further, to provide means which the stirrup at different points on the back a can be operated by the time-clock or similar device for operating both making and breaking parts and for providing a switch which can be used in any kind of electric circuit and for operating any kind of an electric instrument.

Of Interest to Farmers.

BELT-REEL.-D. F. GEIGER, Barlow, N. D. In this patent the invention relates to improvements in reels for winding up and holding predetermined level, and the height of the level driving-belts on shredders, threshing-machines, and the like, the object being to provide a ing-bar which projects below a cross-bar. By reel of simple and novel construction and so inserting a pin in different holes a greater or arranged that a belt may be easily wound thereon. The frame preferably consists of angle-iron; but it may be of wood and otherwise shaped.

Of General Interest.

Center, Neb. In this case the invention relates and fourth class matter, such as catalogues, to mining, and particularly to the removal of merchandise, etc. The object is to provide an placer deposits. It is particularly applicable envelop for this purpose in which provision is to the working of placer-deposits which have made for the binding of the contents of the plurality of signs or cards carried upon a to avoid all danger of creeping or other disalready been mined by the ordinary methods, envelop and fastening of the same to the en-these not permitting the effective removal of velope. A further object is to relieve the brought into view. the auriferous sands from very irregular sur- envelop of the strain of the fastening device. faces or those in which there are abrupt depressions. In this improved method the WATER FOR IRRIGATING AND OTHER nozzles may be introduced into any recesses PURPOSES.-I. TEILMAN, Fresno, Cal. The breaking dough for bread-making or the like, and contents entirely withdrawn. New placer and contents entirely withdrawn. New placer inventor's object is to provide improved means the object being to provide, in connection with claims may be equally well operated upon, and arranged to utilize the fall of water in a a machine of this character, a safety device

silversmiths or goldsmiths in delicate soldering and other purposes. spectacles, eyeglasses, delicate chains, or similar articles. While the invention is intended especially for use in the connection suggested, it should have a wide general usefulness in the arts where similar functions are to be performed.

CONVEYER .- H. BROWN, New York, N. Y. little power for its manipulation. The principal object of the invention is the provision of automatic means for depositing the material upon the desired floor of a building whether the material is being raised or lowered. It relates to a conveyer of that class known as "vertical" conveyers which is pro-vided with a series of horizontal pans or gage in connection with the operation of shelves for carrying the material to be transferred.

PULP-SCREEN .--- C. E. CHAPMAN, Fort Edward, N. Y. A purpose of the inventor is to provide a construction especially adapted for screening paper-pulp, wherein as the fluid leaves the pulp upon a screen the slivers will be constantly tossed up and down, separating and drying them. Another, is to provide for such action upon the slivers through the simultaneous contrary movement of series of paddles located between the screen proper and independent thereof, which paddles operate in a body of water also beneath the screen proper.

MAIL COLLECTION AND DELIVERY BOX.-J. I. FULLWOOD, Cedartown, Ga. Mr Fullwood's object is to provide novel simple details of construction for a mail box to be carried in or on a suitable vehicle which affords safe and very convenient means for tor's object is to provide a novel construction holding collected mail-matter and also for dis- for heating the water circulating through tributing other mail-matter addressed patrons living on rural delivery and mail, As the fire burns a thin annular sheet of routes traversed by Federal mail-carriers.

LIFE-SAVING RAFT. - H., J. MATSON, Havre, France. The invention pertains to improvements in rafts or similar floats and which are particularly adapted for use on marine vessels, the object being to provide a life raft tion proceeds, the inner inclination of the or float that will be effective for its purpose, inner-plate increasing heating effect of the fire. simple in its construction, and that will be

applicable to burners of a type for use in connection with hydrocarbon vapors or the like, and is preferably employed in connection with furnaces for smelting ores.

HARNESS .- C. C. KING, Little Rock, Ark. By the provision of friction-rollers in the stirrups the shaft is permitted to move freely thereover, thus reducing rubbing to a minimum, and by providing a plurality of supports for firmer support for the stirrup is provided, decreasing to a considerable extent the movement thereof and also equalizing and distributing the weight of the shaft. The improvement may be applied to existing harness.

SCREEN FOR IRRIGATING-DITCHES. W. B. RACE, Lake, Idaho. This improved gether, a special means for fastening being screen is entirely automatic in its action, requiring no attention, the rubbish being released when the water above the screen attains a may be regulated by the length of a dependless extent of the bar may be allowed to project below the cross-bar, and as a consequence the catch will be released at a greater or less height of the water above the screen.

MAILING-ENVELOP. - J. SAWDON, Strong-METHOD AND MEANS FOR PROCURING in this case a much greater profit will result. waterway for operating pumps employed to by means of which the operation of the ma-CLAMPING DEVICE.—A. E. BROWN, Brook- lift the water from the well to the head of chine may be instantly stopped while the field, and C. H. RHODES, Herkimer, N. Y. This the waterway, the water discharged at the foot driving-shaft continues in motion should acci-invention relates to clamps such as used by of the waterway being utilized for irrigating dent or other cause require the stopping.

operations or similar work connected with AUXILIARY RUDDER.—W. M. $TAYL \bullet R$, Minn. The invention relates to excavators, their arts. The invention is intended especially Mecklenburg, Va. This improved rudder, while and especially to machinery for making ditches to be used in connection with the repairing of simple in construction, is yet efficient in op- and trenches. eration, and when the desired end is attained it is very quickly drawn out of action, which is a most important feature in devices of this class. Owing to its peculiar construction, the action of the flowing water helps to close it, as well as to open it, thereby requiring very

Hardware.

DEVICE FOR DRESSING SAWS .- T. W ROACH, Lyman, Wash. This improvement perswaging the drag-teeth of cross-cut or drag saws. The object is primarily to provide means which will prevent injury of the cutting-teeth by the application of the gage to the saw.

KEY - HOLDING ATTACHMENT FOR LOCKS. - H. A. SEAGER, Monroe, Wash.Means are afforded by this attachment for holding the key of a lock from turning in either direction when the lock is in locked or unlocked adjustment, thus preventing the doorlock from being unlocked on the outside of the door and also preventing the accidental displacement and loss of the key when the lockbolt is released from the door-casement.

Heating and Lighting.

HOT-WATER HEATER.-J. A. COPPRIDGE and T. B. STULTZ, Roanoke, Va. The invento radiators and the like for heating purposes. water in the inner compartment of the waterchamber will become heated and rise, the colder water in the outer will enter the inner compartment at the bottom thereof and it is replaced by other water, and so on, as opera-

AND PERCENTAGE.--W. M. BRALY, Black-well, Oklahoma Ter. The intention of this THEATRICAL DEVICE.--H M PERCENTAGE. improvement is to provide a machine adapted for calculating interest and percentage and which at the same time when set to a date spreading and vibrating the wings to give the from which interest is to be computed will desired effect, and also means for propelling automatically indicate date after date until when the example is finished the day and date supporting it when removed from the track, to which the interest is computed, together with the time, rate and amount, will appear in full view at the exterior of the machine.

HOTEL-REGISTER .- J. P. HART, Bridge port Borough, Pa. The leaves whereon names and addresses of guests are inscribed are loose and detachable in place of being bound to employed, whereby they may be quickly sepa rated. The carrier upon which leaves are laid and secured revolves upon a base having an antifriction-bearing vertically adjustable, and between the leaf-carrier and base is interposed an antifriction-bearing, means being provided for holding revolving part central against lateral oscillation. Register carrier has foldable top sections. Closed, they cover and protect the register, the same having spaces for advertisements and ornamental panels.

ADVERTISING DEVICE .- H. A. DE RUDIO, Los Angeles, Cal. The invention relates to in which a resilient core is inclosed in an Of General Interest. | hurst, Ill. This invention relates more es-ART OF MINING.—A. G. PARKER, Platte pecially to envelops employed for mailing third advertising by the use of signs. It is es-pecially useful in connection with street-car to the felly or rim of the wheel. The object web, such that these signs may be periodically | location of the tire.

> DOUGH-BREAKER .- L. A. ROCKWELL and J. J. LINDEN, New York, N. Y. This invention refers to improvements in machines for the object being to provide, in connection with

> EXCAVATOR .- A. M. ANDERSON, Moorhead, It is especially applicable in laying pipe-lines. The machine advances by its own traction when desired. A clutch carried by the engine-shaft enables this traction to be thrown in or out, without stopping the engine. Mr. Anderson has invented another excavator, such as used in railroad construction-work, repairing road-beds, and in the construction of ditches and irrigating-canals. It is also useful for clearing a road-way of ice, snow or similar obstruction.

Prime Movers and Their Accessories.

ROTARY ENGINE .- A. H. WRIGHT, South St. Paul, Minn. This improvement pertains to a rotary engine designed to operate with steam or other elastic fluid under pressure, and it belongs to that class in which the rotating element or rotor turns eccentrically in the stationary casing or stator and carries a radially-movable piston-head, which bears the pressure of the working fluid and transmits the same to the engine-shaft and rotor.

VALVE-GEAR .- W. HARTMANN, Berlin, Ger many. In this instance the invention refers to valve-gears for use on steam-engines, gasengines, and other motors. The aim of the inventor is to provide a gear which is positive in its action, requiring comparatively little working power, and arranged to prevent undue influence on the governor by back strains.

Railways and Their Accessories.

RAILROAD-RAIL JOINT .--- E. P. SANDEFUR, Manda, Ky. The purpose of this inventor is the construction of a joint which will stand on a level with the rail under the heaviest train, thereby preventing low joints. The purpose also is to make a joint which will always be ready for use, one which when fastened in its place a train can pass over without danger or delay should the bolts from accident or other cause be out.

CAR-RAIL HORSE-BRIDGE.-J. S. HEATON, CAR-RAIL HORSE-BRIDGE.—J. S. HEATON, Juquiry No. 8060.—For manufacturers of a ma-Shelbyville, Ky. The invention pertains to the chine for extracting or distilling nicotine from tobacco. found equally efficient on being launched either improvements in devices for bridges over fire- The celebrated "Hornsby-Akroyd" Patent Safety Oil Machines and Mechanical Devices. side up. PROPELLER FOR MARINE VESSELS .-CANDY-FORMING MACHINE. J. A. HeL. hose or the like on a car-track, so that move Engine is built by the De La Vergne Machine Company. L. D. MALLORY, Longbeach, Cal. This inventor LOWELL, Memphis, Tenn. The patentee's object ments of cars will not be interfered with employs a supporting frame for the operative in the present invention is the provision of a during the progress of a fire, the object being parts, in which is mounted a right and left new and improved machine more especially de- to provide a bridge that may be readily put hand screw-shaft, through the medium of signed for forming the plastic candy material in position and firmly anchored to prevent either lateral or lengthwise movement. which the propulsion is effected. He also em- into sticks of any desired shape and size and ploys reciprocatory devices for imparting cutting the stick transversely into pieces of

MACHINE FOR CALCULATING INTEREST figuration, the only requisite being that each

THEATRICAL DEVICE .- H. M. PETTIT, New York, N. Y. An automobile or other vehicle is provided with wings and means for the automobile along a way or track and for so that it may give an appearance of leaping from a cliff to a track located on the opposite side of the chasm at a lower level. Safety devices insure the performance of the act without danger to occupants of the vehicle.

Pertaining to Vehicles.

NECK-YOKE .-- C. E. HESS. Saco. Mont. The invention relates to improvements in neck-yokes, and particularly in the connections between the yoke and a wagon-tongue, the object being to provide a novel device for detachably securing the yoke to the tongue without danger of the parts becoming accidentally separated, and, further, to provide ball-bearings for the yoke.

TIRE .--- C. MILLER, Binghamton, N. Y. The invention pertains to an improvement in what are known as "cushion-tires," and more specifically to the particular class of cushion-tires

BRICK-TRUCK .-- M. K. SACHS, Houston, Texas. The invention relates to a truck designed with special reference to the transfer of bricks along a track and on pallets or dryingboards. The principal object is to provide means whereby a truck can be moved under a load, the load readily lifted from its place and left in an elevated position upon the truck, and the truck moved away.

NON-SLIPPING TIRE AND BRAKE .- J. A. Young, New York, N. Y. In the present patent the invention has reference to vehicles, the inventor's more particular object being to produce a wheel provided with a tire constructed , for the purpose of preventing slipping and provided with a brake peculiarly adapted for this form of tire.

Designs.

DESIGN FOR A BOX .- W. JONES, New York, N. Y. In this instance the ornamental design shows a clock upon the box cover. Two columns rest on a base and support a dial flanked by two smaller columns and capped with a head piece. An original feature is furnished by a mouse clinbing a weight chain suspended near the pendulum.

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Pertaining to Recreation.

GAME DEVICE.-A. EHEBALD, New York.

rection, said shaft having coupled relation | ECCENTRIC.-F. M. BERGER, Basin, Mont. with the propeller-shaft. Special means are The design in this instance is to obviate obemployed for manually operating the recipro-jections to machine-eccentrics in general as catory devices, as well as for steering the vessel.

ADJUSTABLE SHEET-METAL PIPE .--- H. known to this inventor whereby endwise mo-LATIMER, High Bridge, N. J. In the erection tion is imparted to a rod or shaft from a drivof sheet-metal piping, such as stovepipes, con- ing-shaft having rotary motion and longitudisiderable difficulty is experienced in forming | nally disposed at an angle to the driven rod or the joints between the sections, as these joints shaft.

should fit with nicety though the pipe-sections vary in dimension. The object is to produce attle, Wash. In this patent the invention has a form of pipe which is easily adjusted at its reference to logging-machines; and the invenextremities to fit the adjacent sections.

BURNER FOR HYDROCARBON VAPORS. proved cable or rope guide or fair-leader arranged to properly lead the cable or rope to -W. KEMP, Tucson, Ariz. Ter. In this instance the invention has reference to burners, the drum of the logging-engine from any direc- through the same. The game-pieces or men New and admits of general use, but is particularly tion.

rotary motion to the screw-shaft in either di- the desired length.

N. Y. The invention relates to improvements in devices with which a variety of games may same have been heretofore constructed—that is be played by any number of persons, the win to say, objections to all forms of such devices ner being indicated by the highest number on

tor's object is the provision of a new and im-

a rotary part that may be disclosed through a chosen opening in the top of the casing when the rotary part comes to rest, the object being to provide a device of this character | United States; also U.S. patent on hoe. Address that will afford amusement with a degree of uncertainty as to results. CABLE OR ROPE GUIDE.-G. FRINK, Se-

> GAME-BOARD. - R. F. ELBURN, Chester town, Md. Mr. Elburn provides a game which will be pleasing and interesting and also an can be made in any desired shape or con- 56th Street, New York.

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